2A

Region of Peel

APPENDIX 2A

NATURAL ENVIRONMENT REPORT

REPORT

Port Credit East Wastewater Servicing Optimization Schedule ‘C’ Municipal Class Environmental Assessment

Natural Environment Report

Submitted to:

GM BluePlan Engineering

Attention: Chris Campbell

Submitted by:

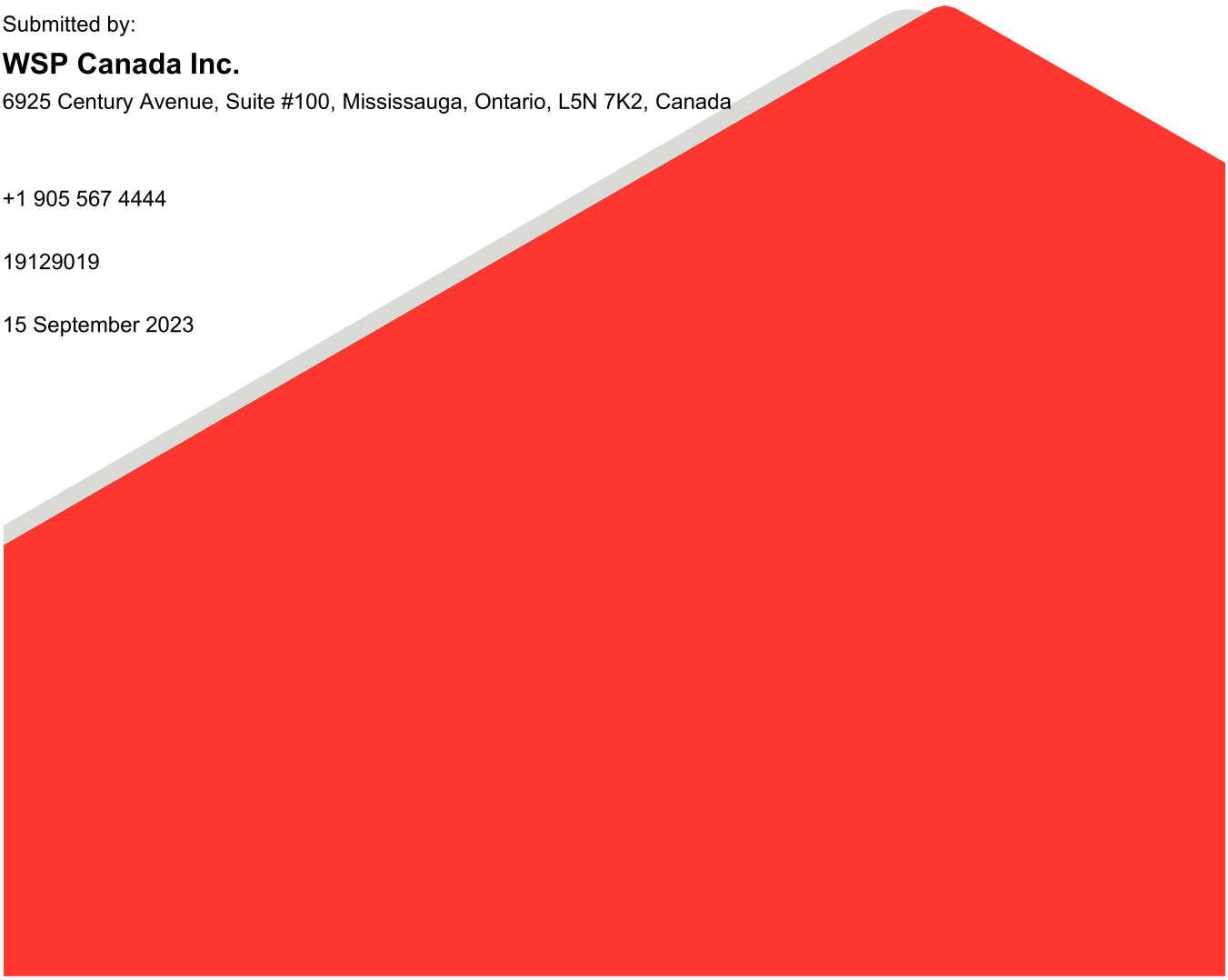
WSP Canada Inc.

6925 Century Avenue, Suite #100, Mississauga, Ontario, L5N 7K2, Canada

+1 905 567 4444

19129019

15 September 2023



Distribution List

1 e-copy GM BluePlan Engineering

1 e-copy WSP Canada Inc.

Acronym List

ANSI	Areas of Natural and Scientific Interest
CVC	Credit Valley Conservation
DFO	Fisheries and Oceans Canada
ECCC	Environment and Climate Change Canada
END	Endangered
ESA	Endangered Species Act
EXT	Extirpated
GMBP	GM BluePlan Engineering Limited
HDD	Horizontal Directional Drilling
MBCA	Migratory Birds Convention Act
MECP	Ministry of the Environment, Conservation and Parks
MMAH	Ministry of Municipal Affairs and Housing
MNR	Ministry of Natural Resources
MNRF	Ministry of Natural Resources and Forestry
NHRM	Natural Heritage Reference Manual
OP	Official Plan
PSW	Provincially Significant Wetlands
SAR	Species at Risk
SARA	Species at Risk Act
SC	Special Concern
SPS	Sewage Pumping Station
SWH	Significant Wildlife Habitat
SWHTG	Significant Wildlife Habitat Technical Guide
SWHMiST	Significant Wildlife Habitat Mitigation Support Tool
TBM	Tunnel Boring Machine
THR	Threatened
WSP	WSP Canada Inc.

Table of Contents

1.0 INTRODUCTION 1

2.0 POLICY CONTEXT 1

3.0 DESCRIPTION OF THE PROPOSED WORKS 2

4.0 METHODS 3

4.1 Background Review and Desktop Species at Risk Screening 3

4.2 Field Reconnaissance 3

4.3 Assessment of Significance and Impact Assessment 4

5.0 EXISTING CONDITIONS 4

5.1 Elmwood 4

5.2 Hiawatha 10

5.3 Rosemere 12

5.4 East Shaft 16

5.5 West Shaft 18

6.0 ASSESSMENT OF SENSITIVE NATURAL HERITAGE FEATURES 20

6.1 Areas of Natural and Scientific Interest 20

6.2 Significant Wetlands 20

6.3 Significant Woodlands 20

6.4 Significant Valleylands 21

6.5 Habitat for Endangered and Threatened Species 21

6.6 Significant Wildlife Habitat 23

6.7 Surface Water Features 25

6.8 Fish Habitat 25

6.9 Official Plan Designated Features 26

6.9.1 Natural Hazard Lands 26

6.9.2 Residential Woodlands 26

7.0 IMPACT ASSESSMENT 26

7.1 Areas of Natural and Scientific Interest....26
7.2 Significant Woodlands....27
7.3 Significant Valleylands....27
7.4 Habitat for Endangered and Threatened Species....27
7.5 Significant Wildlife Habitat....28
7.6 Surface Water Features....30
7.7 Fish Habitat....30
7.8 Official Plan Designated Features....30
7.8.1 Natural Hazard Lands....30
7.8.2 Residential Woodlands....31
8.0 MITIGATION....31
8.1 General Best Management Practices....31
8.2 Migratory Birds....32
8.3 Significant Wildlife Habitat....32
8.4 Fish and Fish Habitat....32
8.5 Natural Hazard Lands....33
9.0 CONCLUSIONS....33
10.0 LIMITATIONS....34
11.0 CLOSURE....34
REFERENCES....36

TABLES

Table 1: Endangered and Threatened Species with Moderate or High Potential to Occur on the Sites and/or in the Study Areas....22
Table 2: Significant Wildlife Habitat with Potential to Occur on the Sites and/or in the Study Areas....24
Table 3: Species at Risk Impact Assessment....28
Table 4: Significant Wildlife Habitat Impact Assessment....29

FIGURES

Figure 1: Project Overview

Figure 2: Sensitive Natural Features – Elmwood

Figure 3: Sensitive Natural Features – Hiawatha

Figure 4: Sensitive Natural Features – Rosemere

Figure 5: Sensitive Natural Features – Lakeshore Road East - Municipal Parking Lot (East Shaft)

Figure 6: Sensitive Natural Features – Lakeshore Road West - Marina Park (West Shaft)

APPENDICES

APPENDIX A
Species At Risk Screening

1.0 INTRODUCTION

WSP Canada Inc. (WSP; formerly Golder Associates Ltd.) has been retained by GM BluePlan Engineering Limited (GMBP) on behalf of the Region of Peel (the Region) to conduct natural environment studies for a Schedule 'C' Municipal Class Environmental Assessment (EA) for the Port Credit East Water and Wastewater Servicing Optimization (the Project) in the City of Mississauga, Region of Peel, Ontario. The purpose of the Project is to evaluate alternative strategies for the existing Elmwood, Hiawatha, and Rosemere sewage pumping station (SPS) and Lakeshore Road servicing areas and to develop an integrated servicing strategy that supports existing servicing needs and projected growth.

To support selection of a preferred solution for the Project, WSP was tasked with an initial desktop assessment followed by field investigations where alternatives overlapped / approached sensitive natural features (Golder 2020). Further field investigation in 2022 provided updated in-depth understanding of the existing conditions.

The purpose of this Natural Environment Report is to build upon WSP's previously completed desktop assessment and field investigations to evaluate the potential Project impacts to the natural environment, and recommended mitigations associated with the refined Project design, and to recommend work for future Project phases.

With the completion of Phase 2, a preferred solution has now been identified which includes a new deep trunk sewer and sub-transmission watermain along Lakeshore Road, a new Rosemere SPS at the existing location with twinned forcemains extending to the east to Sandham Road, the decommissioning of the Elmwood and Hiawatha SPS, proceeding with gravity sewers to connect to the proposed deep trunk sewer on Lakeshore Road. These areas are generally defined as the "sites" for the Project and are shown on Figure 1. The sites include the initial areas considered in Phase 1 of the Project as well as additional above-ground infrastructure identified during Phase 2. Based on the policies of the Provincial Policy Statement (PPS), adjacent lands within 120 m of the sites (the study areas) were also assessed as part of this Natural Environment Report. Below-ground infrastructure was not considered in the delineation of Project spatial boundaries for the purpose of the natural environment assessment unless there was potential for above-ground disturbance (e.g., open trench installation of pipelines).

2.0 POLICY CONTEXT

Sensitive natural features considered for this Project include designated features (e.g., Provincially Significant Wetlands [PSW]), species at risk (SAR), Credit Valley Conservation (CVC) regulated areas, fish habitat, and significant wildlife habitat (SWH) as identified in the following Acts and policy documents:

- Provincial Policy Statement (PPS; MMAH 2020a)
- *Endangered Species Act, 2007* (ESA; Ontario 2007)
- *Species at Risk Act* (SARA; Canada 2002)
- *Migratory Birds Convention Act, 1994* (MBCA; Canada 1994) and Migratory Birds Regulations, 2022 (MBR, 2022; Canada 2022)
- *Fisheries Act* (Canada 1985)
- Region of Peel Official Plan (Region of Peel 2022)

- Mississauga Plan and Mississauga Official Plan (City of Mississauga 2023)
- Parkway Belt West Plan (Ontario 1978)
- Greenbelt Plan (Ontario 2017)
- Growth Plan for the Greater Golden Horseshoe (MMAH 2020b)
- O. Reg. 160/06 Credit Valley Conservation: Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses

3.0 DESCRIPTION OF THE PROPOSED WORKS

It was determined through completion of Phase 2 that trenchless tunnelling construction methodology was integral to the selection of the preferred solution. Most of the Project infrastructure will be located below ground and installed using trenchless methods and within the municipal rights-of-way (ROW). However, some above-ground disturbance is required at construction compound locations, including easements and work compounds required for laydown areas and equipment maneuvering.

The preliminary preferred design concept includes the following components:

1) New Deep Trunk Sewer on Lakeshore Road;
2) New Sub-Transmission Watermain on Lakeshore Road;
3) New Rosemere SPS and construction of associated twinned forcemains; and
4) Decommissioning of Elmwood and Hiawatha SPS and construction of new gravity sewers.

Lakeshore Road Deep Trunk Sewer and Sub-transmission Watermain

- This section involves the construction of a new deep trunk sewer and sub-transmission watermain along Lakeshore Road, including two separate shafts and two separate tunnels along Lakeshore Road, using a tunnel boring machine (TBM).
- The Marina Park municipal parking lot at Lakeshore Road West and Front Street North will be used for staging on the western extent, and the municipal parking lot in the northeast corner of Lakeshore Road East and Elmwood Avenue North will be used for staging on the eastern extent.
- Both construction compound locations will be completed on City-owned properties to minimize disturbance to residents and businesses along Lakeshore Road.

Rosemere SPS

- The new Rosemere SPS at the existing location will have twinned forcemains extending to the east to Sandham Road. The new SPS will replace existing aging infrastructure and be built in accordance with new Regional SPS Standards.

- The area south of Rosemere Road adjacent to Stavebank Road will be used for construction staging on the western extent. A construction compound located at Sandham Road and Vest Drive is required to support constructability of tunnelled twinned forcemains to the eastern extent.
- Twinned forcemains will be tunnelled through City-owned property south of Rosemere Road and connect to existing wastewater infrastructure within the ROW to the east on Sandham Road.

Elmwood SPS / Hiawatha SPS

- The existing Elmwood and Hiawatha SPS will be decommissioned, and a series of proposed tunnelled gravity sewers will connect new sewers from the Hiawatha SPS location to the new sewers from Elmwood SPS, and ultimately to the new Lakeshore Road deep trunk sewer.
- Tree impacts will be mitigated through tunnelling a minimum depth of 1.2 m under Tree Preservation Zones (TPZ). Tunnelling will avoid going directly beneath tree trunks. The last connection to Lakeshore Road will incorporate an incoming diversion gravity sewer from Elmwood Avenue South to a construction compound within the ROW at Elmwood Avenue North adjacent to the municipal parking lot.
- A total of six (6) construction compound locations are required to support constructability of the new tunnelled gravity sewers as a result of decommissioning Elmwood and Hiawatha SPS.

4.0 METHODS

4.1 Background Review and Desktop Species at Risk Screening

As part of the desktop assessment in 2020, a background information search and literature review were completed to gather data and provide context for the evaluation of natural features within the study areas identified for the long-list of alternatives, that being an area generally limited by Front Street in the south, Veronica Drive and just east of Forest Avenue in the west, just south of Seneca Avenue to the north, and Lake Ontario to the east in the City of Mississauga . Also completed was a desktop Species at Risk (SAR) Screening for species listed under the ESA and SARA. Species with ranges overlapping the study areas, or with recent occurrence records in the vicinity, were screened by comparing their habitat requirements to habitat conditions in the study areas. The potential for the species to occur in the study areas was determined based on habitat availability and occurrence records. Refer to the desktop assessment report (Golder 2020) for further details.

All background review and desktop SAR screening information was updated for this report to include any applicable policy changes, updated natural heritage information, as well as the preliminary design of the chosen preferred solution.

4.2 Field Reconnaissance

A field reconnaissance was completed by a WSP biologist on October 5, 2021 to confirm existing conditions at the Rosemere, Hiawatha, and Elmwood SPS sites (Figure 1). The biologist walked through each site where access was available, documenting general conditions and confirming presence of sensitive natural features identified through the desktop assessment (Golder 2020). Where access was unavailable, the biologist scanned the area from a vantage point, using binoculars if necessary. Searches were also conducted to document the presence or absence of suitable habitat for those species identified in the desktop SAR screening completed as part of the initial desktop assessment (Golder 2020).

A second field reconnaissance was completed on October 7, 2022 by WSP biologists to confirm existing conditions documented in 2021, and to survey two additional shaft locations (east and west shaft along Lakeshore Road between Front Street and Elmwood Avenue) not previously visited. A fish habitat assessment was also conducted along Mary Fix Creek and Kenollie Creek in the Rosemere study area.

Methods were similar to those described above, with biologists confirming/documenting general conditions, sensitive natural features, and suitable habitat for SAR. Additionally, for the fish habitat assessment, the length of Mary Fix Creek and Kenollie Creek within the Rosemere study area were surveyed and the following data were collected:

- Watercourse characteristics
- Bank and riparian characteristics
- In-situ water quality parameters
- Presence of potential barriers and / or impediments to fish movement
- Presence and potential of spawning, rearing, and overwintering habitat for the fish that could inhabit the waterbody
- Instream habitat within the section surveyed into distinct habitat units, which correspond to areas of similar habitat type (typically morphology). Within each habitat unit, the following data was collected
    - bank-full and wetted width
    - habitat unit length
    - maximum depth
    - substrate composition (visually estimated as a percentage of total area within each habitat unit)
    - availability of instream cover (visually estimated as a percentage of total area within each habitat unit)
    - bank stability

The field reconnaissance also served to inform the need for further (targeted) survey work for the detailed design phase of the project.

4.3 Assessment of Significance and Impact Assessment

An assessment was conducted to determine if any significant environmental features or SAR exist, or have moderate or high potential to exist, in the study areas and assess whether the Project would negatively impact surrounding significant natural heritage features or SAR.

5.0 EXISTING CONDITIONS

5.1 Elmwood

The Elmwood site is bounded to the northeast by Elmwood Avenue South, to the northwest by St. Lawrence Drive and to the southeast and southwest by Lake Ontario (Figure 2). The shoreline is stabilized with large boulders. A paved public trail known as Waterfront Trail runs through the centre of the site.

The Elmwood site is mainly characterized by Constructed Parkland (CGL_2; i.e., Tall Oaks Park) with manicured lawn and sparsely planted immature to mature deciduous trees. Representative photos are provided (Photos 1-4). The trees consist of species that are native to Ontario, such as Kentucky coffee-tree (*Gymnocladus dioicus*), silver maple (*Acer saccharinum*), swamp white oak (*Quercus bicolor*), sugar maple (*Acer saccharum*), northern red oak (*Quercus rubra*), and tuliptree (*Liriodendron tulipifera*) as well as non-native species, such as ginkgo (*Ginkgo biloba*), Norway maple (*Acer platanoides*), and London plane (*Platanus* × *acerifolia*). There is a narrow fringe of cultural meadow/thicket (CUM1/CUT) along the shoreline containing a variety of wildflowers and shrubs.

Landcover in the northern portion of the site, to the east of Waterfront Trail, consists of manicured lawn with mature northern red oak trees (Photos 5-8). To the west of Waterfront Trail, there is a brick building associated with the Elmwood SPS. Beyond this building, there is a small Cultural Woodland (CUW1) highly disturbed by anthropogenic use and dumped garbage (Photos 9-12). Trees in this Cultural Woodland area are predominantly immature ash (*Fraxinus* sp.), with sparse representation of mature northern red oak trees with cavities and large cracks in the bark.

Off-site, the northeastern and northwestern portions of the study area are characterized by residential neighbourhoods. The southwestern portion of the study area is characterized by additional areas of Constructed Parkland (CGL_2), and Lake Ontario occurs in the southeastern portion of the study area. Two dead American eel (*Anguilla rostrata*) individuals were observed washed up on the shoreline during the site reconnaissance in October 2022 (Photos 13-14).

The suite of wildlife species found at this location was expected and typical of urban environments, parkland, lakeshore habitat, and isolated natural areas, and included species such as black-throated blue warbler (*Setophaga caerulescens*), mallard (*Anas platyrhynchos*), ring-billed gull (*Larus delawarensis*), and golden-crowned kinglet (*Regulus satrapa*). Given the timing of the site reconnaissance (i.e., in October, outside of the core breeding period for wildlife) all birds were observed during migration and therefore observations are not an indication of suitable breeding habitat.

Photo 1: Centre of the Elmwood site facing northwest.

Photo 2: Centre of the Elmwood site facing northeast.

Photo 3: Centre of the Elmwood site facing southeast.

Photo 4: Centre of the Elmwood site facing southwest.

Photo 5: Northern portion of the Elmwood site, east of Waterfront Trail, facing northwest.

Photo 6: Northern portion of the Elmwood site, east of Waterfront Trail, facing northeast.

Photo 7: Northern portion of the Elmwood site, east of Waterfront Trail, facing southwest.

Photo 8: Northern portion of the Elmwood site, east of Waterfront Trail, facing southeast.

Photo 9: Northern portion of the Elmwood site in the small, wooded area, west of Waterfront Trail, facing northwest.

Photo 10: Northern portion of the Elmwood site in the small, wooded area, west of Waterfront Trail, facing northeast.

Photo 11: Northern portion of the Elmwood site in the small, wooded area, west of Waterfront Trail, facing southwest.

Photo 12: Northern portion of the Elmwood site in the small, wooded area, west of Waterfront Trail, facing southeast.

Photo 13: Dead American eel (*Anguilla rostrata*) observed washed up on the shoreline at the Elmwood site.

Photo 14: Dead American eel (*Anguilla rostrata*) observed washed up on the shoreline at the Elmwood site.

5.2 Hiawatha

The Hiawatha site is bounded to the northwest by Cumberland Drive, to the northeast and southwest by residential properties, and to the southeast by Lake Ontario (Figure 3). A paved trail runs through the centre of the site. The shoreline is stabilized with large boulders.

The Hiawatha site is characterized by Constructed Parkland (CGL_2; i.e., Hiawatha Park) with manicured lawn and planted deciduous and coniferous trees. There is a children's playground in the centre of the site. Representative photos are provided (Photos 15-18). The trees on the site consist of species that are native to Ontario, such as sugar maple, silver maple, swamp white oak, northern red oak, white spruce (*Picea glauca*), and eastern hemlock (*Tsuga canadensis*), as well as non-native species, such as Norway maple, littleleaf linden (*Tilia cordata*), lilac (*Syringa vulgaris*), and weeping willow (*Salix babylonica*). There is a narrow fringe of Cultural Meadow/Thicket along the northeastern edge of the site containing a variety of native and non-native wildflowers and shrubs.

Off-site, the northeastern, northwestern, and southwestern portions of the study area are characterized by residential neighbourhoods. Lake Ontario occurs in the southeastern portion of the study area.

The suite of wildlife species found at this location was expected and typical of urban environments, parkland, lakeshore habitat, and isolated natural areas, and included species such as mute swan (*Cygnus olor*), herring gull (*Larus argentatus*), golden-crowned kinglet, Canada goose (*Branta canadensis*), and white-breasted nuthatch (*Sitta carolinensis*). Given the timing of the site reconnaissance (i.e., in October, outside of the core breeding period for wildlife) all birds were observed during migration and therefore observations are not an indication of suitable breeding habitat. An individual monarch (*Danaus plexippus*; special concern under the ESA) was observed in this area, and suitable host plants (common milkweed, *Asclepias syriaca*) and foraging habitat (flowering plants) is present throughout much of the study area.

Photo 15: Centre of the Hiawatha site facing northwest.

Photo 16: Centre of the Hiawatha site facing northeast.

Photo 17: Centre of the Hiawatha site facing southeast.

Photo 18: Centre of the Hiawatha site facing southwest.

5.3 Rosemere

The Rosemere site extends from the intersection of Rosemere Road and Stavebank Road to approximately Vesta Drive to the northeast (Figure 4). A brick building associated with the Rosemere SPS is located in the northwest portion of the site.

The Rosemere site is characterized by two creeks, Kenollie and Mary Fix Creek, and the surrounding naturalized but sparse deciduous trees forming a Cultural Woodland (CUW1). Both creeks are straightened concrete channels with a steep, riparian area. Canopy trees present are predominantly non-native species, such as Norway maple, black locust (*Robinia pseudoacacia*), weeping willow and Manitoba maple (*Acer negundo*), as well as native species such as green ash (*Fraxinus pennsylvanica*), black walnut, sugar maple, sassafras (*Sassafras albidum*) and basswood (*Tilia americana*). There is a deciduous forest in the northern portion of the study area that appears to have an abundance of dead ash trees. Landcover in the western and southern portions of the study area is characterized by residential areas.

Mary Fix Creek flows along the southeastern border of the site until its confluence with Kenollie Creek near the end of Rosemere Road (Figure 4). The creek has a straightened channel, and the bed and banks have been lined with concrete along the entire assessed reach. Habitat units within the surveyed reach included flats, runs and pools. Substrate composition consisted of fine material (silt and sand) with sparse cobble which has deposited over the concrete liner. Instream cover was low and consisted of small woody debris and algae. Small-bodied fish were observed throughout the reach. Several barriers to fish migration were observed, including a debris pile (Photo 24) and steep drops (Photo 30) created by water control structures incorporated into the concrete channel. Banks were stable throughout the reach, and consistent in slope, bankfull width and height due to the design of the concrete liner. Based on the observations in the field, the reach is providing nursery habitat for small-bodied fish. No sensitive features, overwintering habitat, or spawning habitat was observed.

Kenollie Creek enters the site from the northwest before turning southwest and flowing along the southwestern boundary of the site and eventually emptying into the Credit River Marshes PSW Complex approximately 150 m southwest of the site (Figure 4). Similar to Mary Fix Creek, the surveyed portion of Kenollie Creek is also constructed of a concrete channel. As depicted in Photo 27, the water level was low at the time of the survey, resulting in very shallow conditions within Kenollie Creek. The shallow conditions combined with the steep section of channel as it enters Mary Fix Creek resulted in a fish migration barrier.

The suite of wildlife species found at this location was expected and typical of urban environments, and isolated natural areas, and included species such as northern cardinal (*Cardinalis cardinalis*), black-capped chickadee (*Poecile atricapillus*), downy woodpecker (*Picoides pubescens*), golden-crowned kinglet, and northern flicker (*Colaptes auratus*). Given the timing of the site reconnaissance (i.e., in October, outside of the core breeding period for wildlife) all birds were observed during migration and therefore observations are not an indication of suitable breeding habitat.

Representative photos are provided (Photos 19-30).

Photo 19: Northern portion of the Rosemere site facing north.

Photo 20: Northern portion of the Rosemere site facing east.

Photo 21: Northern portion of the Rosemere site facing south.

Photo 22: Northern portion of the Rosemere site facing west.

Photo 23: Mary Fix Creek.

Photo 24: Debris pile migration barrier in Mary Fix Creek.

Photo 25: Mary Fix Creek.

Photo 26: Water control structures designed into concrete channel in Mary Fix Creek.

Photo 27: Confluence of Kenollie Creek with Mary Fix Creek.

Photo 28: Kenollie Creek at study area boundary, upstream of confluence with Mary Fix Creek

Photo 29: Mary Fix Creek.

Photo 30: Steep drop in concrete channel creating fish migration barrier in Mary Fix Creek.

5.4 East Shaft

The Lakeshore Road East - Municipal Parking Lot (East Shaft) is located at the intersection of Elmwood Avenue North and Lakeshore Road East with associated commercial and residential areas of Port Credit nearby (Figure 5). This municipal parking lot supports no natural features and is proposed to be used as a staging area. Natural areas are limited to a small mature woodlot directly to the south of the shaft site. This woodlot is fenced, and so was surveyed from the roadside only. The woodlot comprises a Red Oak Deciduous Forest (FOD1-1) community dominated by mature red oak in the canopy layer, with abundant Norway maple and green ash in the subcanopy.

No wildlife was observed at this shaft location during field investigations; however, wildlife species common in urban environments and isolated natural areas, similar to those observed at the other sites, are likely present.

Representative photos are provided (Photos 31-34).

Photo 31: View of the northeastern part of the Red Oak Forest along Elmwood Ave.

Photo 32: View of the southern part of the Red Oak Forest along St Lawrence Ave.

Photo 33: View of the Red Oak Forest along Lakeshore Rd E.

Photo 34: View of the Red Oak Forest along Lakeshore Rd E.

5.5 West Shaft

The Lakeshore Road West - Marina Park (West Shaft) is located at the intersection of Lakeshore Road West and Front Street North, with associated commercial properties nearby (Figure 6). Natural areas are limited to an area of Constructed Parkland (CGL_2) along the Credit River. The Constructed Parkland community comprises primarily planted non-native tree and shrubs, and ground layer species. Manitoba maple and Norway maple are abundant, with occasional Siberian elm (*Ulmus pumila*), tree of heaven (*Ailanthus altissima*), black walnut, green ash, and littleleaf linden. The ground layer consists primarily of mown grass; however, a variety of native and non-native species are present closer to the adjacent Credit River. The area shows significant evidence of anthropogenic disturbance including recreational use, invasive species, trails, fishing, and dumping.

The suite of wildlife species found at this location was expected and typical of urban environments, lakeshore habitat, and isolated natural areas, and included species such as Canada goose, mallard, and ring-billed gull. Given the timing of the site reconnaissance (i.e., in October, outside of the core breeding period for wildlife) all birds were observed during migration and therefore observations are not an indication of suitable breeding habitat.

Representative photos are provided (Photos 35-38).

Photo 35: Eastern portion of the west shaft site at Marina Park along Front St N, facing west.

Photo 36: Eastern portion of the west shaft site at Marina Parkalong the Credit River, facing west.

Photo 37: Western portion of the west shaft site at Marina Parkalong the Credit River, facing east.

Photo 38: Western portion of the west shaft site at Marina Parkalong Front St N, facing east.

6.0 ASSESSMENT OF SENSITIVE NATURAL HERITAGE FEATURES

6.1 Areas of Natural and Scientific Interest

Areas of Natural and Scientific Interest (ANSI) are designated by the province according to standardized evaluation procedures. ANSI are ranked by the Ministry of Natural Resources and Forestry (MNRF) as being either provincially or regionally significant.

There are no ANSI overlapping any of the sites (NHIC 2021). Off-site, there is a regionally significant life science ANSI known as the Credit River Coastal Marshes approximately 105 m southwest of the Rosemere site (Figure 4). Regionally significant life science ANSI are identified as a Significant Natural Area by the City (City of Mississauga 2023). Where development is proposed in or adjacent to a regionally significant life science ANSI, an assessment must be completed to demonstrate that all reasonable alternatives have been considered and development will not adversely affect the feature or its ecological function, to the satisfaction of the City (City of Mississauga 2023).

6.2 Significant Wetlands

A wetland is determined to be a PSW by the MNRF using evaluation procedures established by the Province, as amended from time to time (MMAH 2020). Wetlands are evaluated for significance based on a range of criteria, including biology, hydrology, societal value and special features (MNRF 2013).

There are no mapped PSWs, other evaluated wetlands, or unevaluated wetlands overlapping any of the sites, or their respective study areas (NHIC 2021). According to City of Mississauga mapping, the southern portion of the Rosemere site overlaps the 120 m buffer zone associated with the Credit River Marshes PSW Complex (City of Mississauga 2023 – OP Schedule 3). However, based on provincial mapping, the Rosemere site is located approximately 150 m northeast of the complex (NHIC 2021; Figure 4).

6.3 Significant Woodlands

Significant woodlands are areas which are: 1) ecologically important in terms of features such as species composition, age of trees, and stand history; 2) functionally important due to their contribution to the broader landscape because of their location, size, or due to the amount of forest cover in the planning area; or 3) economically important due to site quality, species composition, or past management history (MMAH 2020).

The City of Mississauga has identified significant woodlands in its jurisdiction under the Significant Natural Areas overlay (City of Mississauga 2023 – OP Schedule 3). A Significant Natural Area overlaps the Rosemere site where it intersects deciduous forest (Figure 4), suggesting woodland significance. City of Mississauga mapping groups Significant Natural Areas with Natural Green Spaces. An area identified as such overlaps the west shaft (Marina Park) study area but not the site (Figure 6). The area is across the Credit River from the shaft site and based on land cover is likely a Natural Green Space rather than a Significant Natural Area.

Where development is proposed in or adjacent to a significant woodland, an assessment must be completed to demonstrate that all reasonable alternatives have been considered and development will not adversely affect the feature or its ecological function, to the satisfaction of the City (City of Mississauga 2023). Vegetated setbacks may be required from the woodland dripline of significant woodlands and are determined on a case-by-case basis.

Significant woodlands are also contained within the Core Areas designation of the Greenlands System as mapped by the Region of Peel (2022). There are no Core Areas of the Greenlands System present within any of the sites or study areas.

6.4 Significant Valleylands

General guidelines for determining significance of valleylands are presented in the Natural Heritage Reference Manual (NHRM; MNR 2010). Recommended criteria for designating significant valleylands include prominence as a distinctive landform, degree of naturalness, importance of its ecological functions, restoration potential, and historical and cultural values. According to the City of Mississauga (2023), significant valleylands are associated with the main branches, major tributaries and other tributaries and watercourse corridors draining directly to Lake Ontario including the Credit River, Etobicoke Creek, and Mimico Creek. These features are generally included in the Significant Natural Areas overlay in the OP (City of Mississauga 2023 – OP Schedules 3 and 10).

The west shaft site at Marina Park along Lakeshore Road West occurs adjacent to, but not within, Natural Hazard Lands associated with the Credit River (Figure 6). The Credit River is one of the main rivers draining into Lake Ontario and is identified as a Significant Valleylands by the City of Mississauga (2023).

Additionally, Natural Hazard Lands associated with Mary Fix Creek and Kenollie Creek overlap the Rosemere site (Figure 4). Given that these creeks are small tributaries that do not drain directly into Lake Ontario, the valleylands associated with the creeks are unlikely to be considered significant.

Valleys and hazard lands are generally regulated by the local conservation authority (in this case, CVC) and development within or adjacent to these features is subject to common permitting policies (CVC 2010).

6.5 Habitat for Endangered and Threatened Species

General habitat protection is provided by the ESA to all threatened and endangered species. General habitat is defined as the area on which a species depends directly or indirectly to carry out life processes, including reproduction, rearing, hibernation, migration, or feeding (Ontario 2007). Species-specific habitat protection is only afforded to those species for which a habitat regulation has been prepared and passed into law as a regulation of the ESA. A habitat regulation outlines specific habitat features and associated buffers that are protected, and also specifies the geographic area(s) of the province where the habitat regulation applies. In some cases, a General Habitat Description (GHD) may also be prepared to help define and refine the area of protected habitat in advance of a habitat regulation.

Development and site alteration in habitat of endangered and threatened species is prohibited, except in accordance with provincial requirements under the ESA. Policies in the applicable provincial and municipal plans align with and defer to provincial requirements under the ESA.

Potential as habitat for endangered or threatened species is provided in Table 1 below; however, further field investigations need to be conducted to collect field data at each site to confirm the presence of potential habitat and its use by SAR. Only species with moderate potential to occur at one or more sites or within their respective study areas are discussed. A full evaluation of habitat potential for SAR and description of habitat preferences is provided in the SAR screening (Appendix A).

Table 1: Endangered and Threatened Species with Moderate or High Potential to Occur on the Sites and/or in the Study Areas

Common Name	Scientific Name	ESA[1]	Site(s)[2]	Potential to Occur[2]	Rationale for Potential to Occur
Chimney Swift	*Chaetura pelagica*	THR	▪ Elmwood, Hiawatha, Rosemere, West Shaft, East Shaft (off-site in study area)	Moderate	There are no structures or large cavity trees that may provide suitable nesting habitat on the sites. Off-site, chimneys in residential and commercial areas in all study areas may provide suitable nesting and roosting habitat. This species is likely to be present as foraging visitors.
Red-headed Woodpecker	*Melanerpes erythrocephalus*	END	▪ Elmwood (site) ▪ Hiawatha (site) ▪ Rosemere (site and study area) ▪ East shaft (off-site in study area)	Moderate	Large oak trees observed throughout the Elmwood and Hiawatha sites may provide suitable nesting habitat. The deciduous forest overlapping the Rosemere site and study area, and the deciduous forest immediately south of the east shaft site, may provide suitable nesting habitat for this species.
Butternut	*Juglans cinerea*	END	▪ Elmwood (site) ▪ Rosemere (off-site in study area)	High	The small woodland patch in the northern portion of the Elmwood site could provide the suitable growing conditions for butternut. No individuals were observed during the site reconnaissance, but a detailed botanical inventory was not conducted due to access restrictions. Off-site portions of the deciduous forest overlapping the Rosemere site and study area may provide suitable growing conditions for this species. No butternuts were observed in the on-site portion of the deciduous forest.
Kentucky coffee-tree	*Gymnocladus dioicus*	THR	▪ Elmwood (site)	High	Planted Kentucky coffee-trees were observed in the centre of the Elmwood site. Planted specimens are not protected under the ESA. This species is an increasingly common planted urban tree in southern Ontario.

Notes:

[1] Endangered Species Act (ESA), 2007 (O.Reg 242/08 current to 8 September 2023). Species at Risk in Ontario List, 2007 (O.Reg 230/08 current to 8 September 2023); Schedule 1 (Extirpated - EXP), Schedule 2 (Endangered - END), Schedule 3 (Threatened - THR), Schedule 4 (Special Concern - SC)

[2] Sites are only listed where habitat potential is moderate or high on the site or in its respective study area. It can be assumed that there is low potential for habitat for the species in the remaining sites and their respective study areas.

6.6 Significant Wildlife Habitat

There are four general categories of significant wildlife habitat (SWH): seasonal concentration areas; rare vegetation communities or specialized habitat for wildlife; habitat for species of conservation concern; and animal movement corridors. Each category is further broken down into specialized habitat types. The specific habitats considered in this report are evaluated based on the criteria outlined in the Ecoregion 7E criterion schedules (MNRF 2015).

The NHRM includes criteria and guidelines for designating SWH. There are two other documents, the Significant Wildlife Habitat Technical Guide (SWHTG) and the Significant Wildlife Habitat Mitigation Support Tool (SWHMiST) (MNR 2000 and MNRF 2014), that can be used to help decide what areas and features should be considered significant wildlife habitat. These documents were used as reference material for this study. SWH should be evaluated in the context of the entire planning authority's jurisdiction, and only the best examples are considered significant (MNR 2000).

Although SWH is typically identified on a site-specific basis and is therefore not often mapped at a landscape level in municipal OPs, according to the OP (City of Mississauga 2023), SWH in the City is generally contained within the Significant Natural Areas overlay (OP Schedule 3; Figure 1). A Significant Natural Area overlaps with the Rosemere site and study area, suggesting the potential presence of SWH. City of Mississauga mapping groups Significant Natural Areas with Natural Green Spaces. An area identified as such overlaps the west shaft (Marina Park) study area but not the site (Figure 6). The area is across the Credit River from the shaft site and based on land cover is likely a Natural Green Space rather than a Significant Natural Area.

Based on the reference documents listed above, potential for SWH is discussed by site in Table 2. Only SWH types with potential to occur on the sites and/or within the study areas are discussed.

Table 2: Significant Wildlife Habitat with Potential to Occur on the Sites and/or in the Study Areas

Significant Wildlife Habitat General Category	Specialized Habitat Type	Site(s)[1]	Rationale for Potential to Occur
Habitat for Species of Conservation Concern	Habitat of special concern and rare wildlife species: monarch (*Danaus plexippus*)	▪ Elmwood (site) ▪ Hiawatha (site) ▪ Rosemere (site and study area) ▪ West shaft (site and study area) ▪ East shaft (off-site in study area)	All of the identified sites provide suitable foraging habitat, and breeding habitat (i.e., presence of milkweed) was confirmed on the Rosemere site and in the east shaft study area (off-site). One adult butterfly was observed at the Hiawatha site during the October 2022 field reconnaissance. However, suitable habitat for this species is well-represented throughout the broader region. This constitutes **Candidate SWH**
	Habitat of special concern and rare wildlife species: eastern wood-pewee (*Contopus virens) and* wood thrush (*Hylocichla mustelina)*	▪ Rosemere (site and study area)	The deciduous forest overlapping the Rosemere site and study area may provide suitable nesting habitat for these species. This constitutes **Candidate SWH**
Animal Movement Corridors	Amphibian movement corridors	▪ Rosemere (site and study area)	Kenollie Creek and Mary Fix Creek in the Rosemere site and study area may offer movement opportunities for amphibians travelling to/from the Credit River Marshes PSW Complex approximately 150 m southwest of the site. The presence of this habitat is not confirmed as appropriately timed surveys have not been conducted. This constitutes **Candidate SWH**

Notes:

[1] Sites area are only listed where there is potential occurrence of significant wildlife habitat on the site or its respective study area. Remaining sites can be assumed to lack potential.

6.7 Surface Water Features

Surface water features in the vicinity of the sites are part of the Credit River watershed (MNR and CVC 2002). The CVC regulates watercourses, waterbodies, and wetlands in the Credit River watershed. Lake Ontario borders the Elmwood and Hiawatha sites to the southeast. The CVC regulation limits associated with Lake Ontario overlap the southern portions of the Elmwood and Hiawatha sites (Figures 2 and 3). Kenollie Creek overlaps the Rosemere site and Mary Fix Creek borders the Rosemere site (Figure 4). The CVC regulation limits associated with these creeks overlap the Rosemere site. The west shaft site at Marina Park borders the Credit River and is within the CVC regulation limits associated with the river (Figure 6). Any development proposed within CVC regulation limits will require authorization or a permit from the CVC.

6.8 Fish Habitat

The nearshore zone of Lake Ontario within the study areas of Elmwood and Hiawatha is considered warmwater (Stewart et al. 2013). There are numerous native and non-native fish species present in Lake Ontario such as top predator coldwater salmonids (chinook [*Oncorhynchus tshawytscha*], coho [*Oncorhynchus kisutch*], and Atlantic salmon [*Salmo salar*]; rainbow [*Oncorhynchus mykiss*], brook [*Salvelinus fontinalis*], lake [*Salvelinus namaycush*] and brown trout [*Salmo trutta*]), warmwater species such as brown bullhead (*Ameiurus nebulosus*) and sunfish, and various sportfish such as walleye (*Sander vitreus*), northern pike (*Esox lucius*), muskellunge (*Esox masquinongy*), smallmouth bass (*Micropterus dolomieu*), and largemouth bass (*Micropterus salmoides*). Numerous invasive species are found in the lake including zebra and quagga mussels (*Dreissena* spp.), predatory zooplankton (spiny water flea [*Bythotrephes longimanus*] and fish-hook flea [*Cercopagis pengoi*]), round goby (*Neogobius melanostomus*), tubenose goby (*Proterorhinus semilunaris*), and sea lamprey (*Petromyzon marinus*) (Stewart et al. 2013). Although two dead American eel individuals were observed washed up on the shoreline at the Elmwood site, the nearshore zone of Lake Ontario does not have suitable characteristics to be habitat for this species.

The Credit River is characterized as having a coldwater thermal regime, and the following species are documented in the watercourse: black crappie (*Pomoxis nigromaculatus*), brook trout, brown bullhead (*Ameiurus nebulosus*), brown trout, coho salmon, common carp (*Cyprinus carpio*), freshwater drum (*Aplodinotus grunniens*), largemouth bass, northern pike, pumpkinseed (*Lepomis gibbosus*), rainbow smelt (*Osmerus mordax*), rainbow trout, rock bass (*Ambloplites rupestris*), smallmouth bass, white bass (*Morone chrysops*), white perch (*Morone americana*), white sucker (*Catostomus commersonii*), and yellow perch (*Perca flavescens*) (MNRF 2022).

Kenollie Creek and Mary Fix Creek are characterized as having a warmwater thermal regime, and the following warmwater species are documented to have habitat in these features: brown bullhead and goldfish (*Carassius auratus*) (MNRF 2022). Warmwater watercourses and waterbodies are generally considered to be more robust and tolerant to external effects.

Where development is proposed within or adjacent (i.e., within 30 m) to fish habitat, an impact assessment must be completed to demonstrate that development will not adversely affect the feature or its ecological function. In general, development should be designed to avoid or minimize adverse impacts to fish and fish habitat. Development and site alteration within fish habitat may be permitted in accordance with provincial and federal requirements. Buffers to protect against soil erosion and sediment impacts may be required for development and site alteration adjacent to waterbodies (City of Mississauga 2023).

6.9 Official Plan Designated Features

6.9.1 Natural Hazard Lands

According to the City of Mississauga (2023), Natural Hazard Lands are associated with stream corridors and the Lake Ontario shoreline and determined to be unsafe for development due to natural processes such as flooding and erosion. Natural Hazard Lands are mapped on Schedules 3 and 10 of the OP.

Natural Hazard Lands associated with the Lake Ontario shoreline overlap the southern portions of the Elmwood and Hiawatha sites (Figures 2 and 3). Natural Hazard Lands associated with Kenollie Creek and Mary Flix Creek overlap the Rosemere site (Figure 4). Natural Hazard Lands associated with the Credit River overlap the west shaft study area but not the site (Figure 6).

Where development is proposed within Natural Hazard Lands, uses must be limited to essential infrastructure, conservation, flood and erosion control, and passive recreation. Development will not be permitted unless it meets the requirements of the CVC and City policies (e.g., Erosion and Sediment Control by-law). However, development may be permitted within hazard lands if an assessment is completed to demonstrate that alternatives have been considered and development will not adversely affect the feature or its flood and erosion control function, to the satisfaction of the CVC (CVC 2010).

6.9.2 Residential Woodlands

According to the City of Mississauga (2023), Residential Woodlands are areas, generally in older residential areas, with large lots that have mature trees forming a relatively continuous canopy but with minimal native understorey due to landscaping practices.

The Rosemere site is designated by the City as Residential Woodlands (City of Mississauga 2023 - OP Schedule 3).

Development within Residential Woodlands will have regard for how the existing tree canopy and understorey are protected and enhanced. A site development plan may be required to demonstrate the maintenance of various characteristics including topography and drainage patterns, groundwater recharge, habitat for tolerant canopy birds and urban wildlife (City of Mississauga 2023).

7.0 IMPACT ASSESSMENT

An assessment of the impacts of the proposed works on sensitive natural heritage features is outlined in this section of the report, based on the preliminary design of the preferred solution. Direct impacts (i.e., Project footprint disturbance) as well as potential indirect or secondary impacts (e.g., sensory disturbance) were considered.

Sensitive natural heritage features identified within one or more study areas are assessed for Project impacts below.

7.1 Areas of Natural and Scientific Interest

The Credit River Coastal Marshes ANSI is approximately 105 m southwest of the Rosemere site (Figure 4). However, the ANSI is separated from the Rosemere site by Stavebank Road and suburban residences and therefore is not anticipated to be impacted by the Project.

7.2 Significant Woodlands

Direct impacts to the significant woodland identified at the Rosemere site (primarily surrounding Kenollie Creek) are anticipated to be minimal as the majority of the area identified as significant is outside of the site, and therefore tree removals within the significant woodland will be minimal. Additionally, the proposed works will be completed using trenchless methods by horizontal directional drilling (HDD), avoiding significant impacts to trees. Indirect impacts to adjacent retained vegetation during and following construction may include:

- Release of construction-generated sediment to adjacent habitats.
- Vegetation clearing/damage beyond the working area.
- Increased potential for introduction of non-native species.
- Spills of contaminants, fuels and other materials that may reach natural or semi-natural areas.
- Changes in drainage patterns (groundwater and/or surface runoff flow) that can impact dependent vegetation/wetland areas located either upgradient or downgradient of the impacted area. Blocking of existing surface/subsurface drainage patterns can result in upstream and downstream vegetation dieback/condition changes; an increase in downstream runoff can result in erosion impacts on receiving vegetation.

These potential impacts can be avoided or minimized through the implementation of mitigation measures identified in Section 8.1.

7.3 Significant Valleylands

Given that the Credit River Significant Valleylands have a large and defined valleylands, and the area of proposed disturbance is limited to one crossing using trenchless tunnelling, the Project is not expected to have any negative impacts on the overall morphology and function of the valleylands.

The Credit River Significant Valleylands and the west shaft site at Marina Park are within CVC regulation limits and the Project will require a permit for development to occur within these regulated areas. General mitigation measures to minimize impacts to the Credit River and its valleylands are provided in Sections 8.1, and additional mitigation measures will be determined in consultation with the CVC as part of the permitting process.

7.4 Habitat for Endangered and Threatened Species

There is moderate to high potential for four threatened or endangered species to occur within one or more of the study areas, as discussed in Section 6.5 above. Potential impacts to each SAR are discussed below.

Table 3: Species at Risk Impact Assessment

Common Name	ESA	Site(s)	Impact Assessment
Chimney Swift	THR	▪ Elmwood, Hiawatha, Rosemere, West Shaft, East Shaft (off-site in study area)	There is moderate potential for chimney swift to be present within the sites and study areas; however, no direct impacts to this species are anticipated. Suitable nesting habitat is not present within any of the sites, and no building removals are proposed. Chimney swifts are unlikely to be impacted as foraging visitors and impacts to foraging habitat will be minimal and temporary. Mitigation measures outlined in Section 8.2 are anticipated to be sufficient to protect this species.
Red-headed Woodpecker	END	▪ Elmwood (site) ▪ Hiawatha (site) ▪ Rosemere (site and study area) ▪ East shaft (off-site in study area)	There is moderate potential for red-headed woodpecker to be present within the sites and study areas; however, no direct impacts to this species are anticipated. Potential impacts to suitable breeding habitat are limited, as most impacts to large tree will be avoided by trenchless construction methods. Impacts to foraging habitat will be minimal and temporary. Mitigation measures outlined in Section 8.2 are anticipated to be sufficient to protect this species.
Butternut	END	▪ Elmwood (site) ▪ Rosemere (off-site in study area)	Although this species was assessed as having high potential to occur, no individuals were observed and therefore no direct impacts are anticipated. Indirect impacts to unidentified individuals in areas inaccessible during field work are possible, and general vegetation mitigation measures are outlined in Section 8.1 to protect these individuals.
Kentucky coffee-tree	THR	▪ Elmwood (site)	As noted in Section 5.1, planted Kentucky coffee-trees were observed in the centre of the Elmwood site; however, the ESA only applies to naturally occurring specimens. Cultivated and natural hybrids, as well as nursery grown or planted trees, do not qualify for protection unless they are part of a MECP approved restoration program. Within the Elmwood site, all observed Kentucky coffee-tree specimens were intentionally planted nursery stock and therefore are not protected. Habitat for naturally occurring individuals or populations is not present within the study area.

7.5 Significant Wildlife Habitat

Candidate SWH is present for monarch, eastern wood-pewee, wood thrush, and a potential for amphibian movement corridors, as discussed in Section 6.6 above. Potential impacts to each candidate SWH are discussed below.

Table 4: Significant Wildlife Habitat Impact Assessment

Significant Wildlife Habitat General Category	Specialized Habitat Type	Site(s)[1]	Impact Assessment
Habitat for Species of Conservation Concern	**Candidate** Habitat of special concern and rare wildlife species: monarch (*Danaus plexippus*)	▪ Elmwood (site) ▪ Hiawatha (site) ▪ Rosemere (site and study area) ▪ West shaft (site and study area) ▪ East shaft (off-site in study area)	Impacts to habitat will be minor in area and temporary as these areas will be restored to a similar condition following construction. Habitat for this species is not limited in the broader region. Measures to mitigate potential impacts to this candidate SWH are outlined in Section 8.3.
	Candidate Habitat of special concern and rare wildlife species: eastern wood-pewee (*Contopus virens)* and wood thrush (*Hylocichla mustelina)*	▪ Rosemere (site and study area)	Impacts to potential breeding and foraging habitat are anticipated to be minimal, as significant impacts to large trees/forest are not anticipated due to the trenchless construction methods. Impacts to foraging habitat will be minor in area and temporary as these areas will be restored to a similar condition following construction. Direct impacts to individuals can be sufficiently avoided with the implementation of the mitigation measures outlined in Section 8.2.
Animal Movement Corridors	**Candidate** Amphibian movement corridors	▪ Rosemere (site and study area)	The presence of this habitat has not been confirmed; additional studies may be required at later design phase to further quantify impacts. Potential impacts are anticipated to be small in area as the use of trenchless construction methods will avoid impacts to the treed area potentially supporting a movement corridor. However, impacts are possible within the planned staging area in the northeastern quadrant of Rosemere Road and Stavebank Road, including the creation of barriers to movement (e.g., the presence of excessive downed woody debris from tree clearing), as well as the opening of the woodland canopy that will dry the moist microclimate, rendering the corridor unsuitable for amphibian movement. Should this habitat be confirmed, mitigation measures will be developed during the detailed design phase.

7.6 Surface Water Features

The Rosemere site is within CVC regulation limits of Kenollie Creek and Mary Fix Creek, the Elmwood and Hiawatha sites are within CVC regulation limits of Lake Ontario, and the west shaft site at Marina Park is within CVC regulation limits of the Credit River. The Project will require a permit for development to occur within these regulated areas. General mitigation measures to minimize impacts to these surface water features are provided in Sections 8.1, and additional mitigation measures will be determined in consultation with the CVC as part of the permitting process.

7.7 Fish Habitat

Construction activities involved in carrying out the tunneling construction activities at Kenollie Creek and the construction in the vicinity of Mary Fix Creek, Lake Ontario and the Credit River have the potential to impact fish and fish habitat through indirect pathways. No direct impacts are anticipated as tunnelling will be used to cross Kenollie Creek. Potential Project activities that may occur near water were reviewed to identify applicable Pathways of Effects (DFO 2018) and include potential effects from the following:

- Use of industrial equipment
- Heavy equipment used during construction has the potential to increase bank instability and lead to the potential for sediment laden runoff entering the watercourses or lake
- Equipment leaks can lead to contaminants entering the watercourses or lake
  - Potential for indirect or direct effects to fish, eggs and larvae as a result of using industrial equipment below the highwater mark at Kenollie Creek
- Vegetation clearing/grading and excavation
  - The removal of vegetation and disturbance of soils can lead to bank instability and create the potential for sediment laden runoff to enter the watercourse unless properly managed
  - Removal of vegetation may change habitat structure and cover, change nutrient concentrations, and change water temperatures due to removal of shading

As the Project work involves work near water, which is fish habitat under the *Fisheries Act*, a DFO Request for Review (RFR) is required.

7.8 Official Plan Designated Features

7.8.1 Natural Hazard Lands

An evaluation of alternatives for this essential infrastructure Project was conducted and the preferred solution detailed in Section 3.0 was deemed to be the most fitting from an environmental and technical standpoint. Natural Hazard Lands identified within the Elmwood, Hiawatha, and west shaft study areas will not be impacted as works are not proposed in the Natural Hazard Land areas. At the Rosemere site, a relatively small portion of the Natural Hazard Lands will be impacted by the proposed works where staging is planned in the northeastern quadrant of Rosemere Road and Stavebank Road. Impacts are anticipated to be small in area, given the trenchless construction methods, and medium-term given the removal of mature trees.

Mitigation measures for the protection of the Natural Hazard Lands are provided in Section 8.5. With the implementation of the mitigation measures, the proposed development is not anticipated to adversely affect the feature or its flood and erosion control function in the long-term. Further mitigation measures may be identified by CVC as part of the permitting process.

7.8.2 Residential Woodlands

Direct impacts to this residential woodland at the Rosemere site are anticipated to be minimal as significant impacts to trees will be avoided through the use of trenchless construction methods by HDD. There is some potential for the residential woodland to be impacted indirectly, as discussed in Section 7.2. A site development plan may be required to demonstrate the maintenance of various characteristics including topography and drainage patterns, groundwater recharge, habitat for tolerant canopy birds and urban wildlife (City of Mississauga 2023). Mitigation measures for protection of this residential woodland are provided in Section 8.1.

8.0 MITIGATION

8.1 General Best Management Practices

General best management practices to be followed during site preparation and construction to mitigate damage to natural features include the following:

- Where possible, minimize the Project footprint and duration during the detailed design phase.
- Clearly demarcate and maintain site boundaries to prevent encroachment into adjacent natural features.
- Ensure all equipment is cleaned prior to transportation and maintained free of fluid leaks, for use on the sites to avoid the spread or introduction of invasive species, or noxious weeds.
- Avoid the storage of construction materials or equipment adjacent to sensitive natural features (e.g., woodland) to minimize disturbance to these features and resident wildlife.
- Exposed surfaces should be re-stabilized and revegetated as soon as possible following disturbance, specifically within 15 days near watercourses and within 45 days in graded areas. Consider revegetating with CVC seed mix 3 (Lowland Restoration Mix) for low-lying areas and CVC Seed Mix 1 (Upland Mix) for upland areas to ensure each ecosite is returned to pre-construction condition or better. Seed mix and cover crop details are provided in the CVC Plant Selection Guideline (CVC 2018).
- Implement standard practices such as a grading plan, drainage plan, sediment and erosion controls, spill prevention, etc. during the construction phase of the Project.
- Appropriate vegetation clearing techniques will be used (e.g., felling trees away from retained natural areas and watercourses).
- Cut and grubbed material shall be disposed of through chipping or other appropriate means.
- Dust control shall be completed using water, not chemical suppressants.
- Environmental inspection during construction is recommended to ensure that all mitigation measures are implemented properly, maintained and repaired. Remedial measures are to be initiated in a timely manner where warranted.

8.2 Migratory Birds

In order to protect nesting migratory birds in accordance with the MBCA, the following mitigation measures shall be implemented:

- Vegetation removal (including grubbing and removal of trees, shrubs, grasses and plants) will be avoided during the identified migratory bird nesting season (April 5 to August 26 in nesting zone C2; ECCC 2023) to the extent possible. If the nesting season cannot be avoided, construction disturbance will be preceded by a nesting survey conducted by a qualified biologist. If any active nests are found during the nesting survey, a buffer will be installed around the nest to protect against disturbance. Vegetation within the protection buffer cannot be removed until the young have fledged the nest.
- No active nests (nests with viable eggs or young birds) will be removed or disturbed in accordance with the MBCA.
- If a nesting migratory bird is identified within or adjacent to the construction site and the construction activities are such that continuing construction in that area would result in a contravention of the MBCA, all activities will stop, and a qualified biologist will be contacted to discuss mitigation options.
- Activities resulting in major noise and vibration levels will be avoided during the migratory bird nesting period (April 5 to August 26 in nesting zone C2; ECCC 2023) to the extent possible.

8.3 Significant Wildlife Habitat

Monarch

- To address the impacts to monarch habitat, and to enhance existing meadow habitat for these species, consider re-vegetating disturbed areas with native seed mix including native milkweed species (to provide critical larval life stage habitat for monarch) and wildflowers (to provide nectar-producing plants for adult monarch foraging).

8.4 Fish and Fish Habitat

Measures to be followed to mitigate negative indirect impacts to Kenollie Creek, Mary Fix Creek, Credit River and Lake Ontario include the following:

- Conduct near water work during a period of low flow and avoid wet, windy, and rainy periods.
- Install sediment and erosion controls (e.g., silt fencing) along the extent of the construction disturbance footprint prior to commencement of site preparation and construction activities to prevent sediment from entering the watercourse.
- Manage water flowing onto the site such that sediment is filtered out prior to the water entering the watercourse (e.g., rainfall).
- Regularly inspect and maintain the sediment and erosion controls.
- Develop a response plan that will be implemented immediately in the event of a sediment release or spill of a deleterious substance and an emergency spill kit will be kept on the site.
- Wash, refuel, and service equipment away from the watercourse (i.e., >30 m distance).

- Plan activities near water such that chemicals do not enter the watercourse.
- Minimize depth of excavation, where possible.
- Minimize organic debris (e.g., woody debris) clearing and use proper clearing techniques. Salvage and replace organic debris areas to pre-construction condition.
- Store and stabilize all stockpiled materials, including but not limited to excavated overburden and topsoil, excess materials, construction debris and containers in a manner that will prevent the release of leaching of substances that may be deleterious to fish from entering any watercourse.
- Revegetate cleared and disturbed areas and armour exposed soils on watercourse banks to pre-construction condition to minimize exposed soils and therefore erosion potential. Revegetate cleared areas with native species that were removed. Rehabilitate and re-contour land to pre-construction condition.

A DFO Request for Review will be required for the Project. Dependant upon the type of work being undertaken, residual effects of the Project that may result in the harmful alteration, disruption or destruction to fish habitats and/or as a result of the DFO review process, a DFO Fisheries Act Authorization for the Project may be required. Mitigation measures identified therein are expected to be adhered to.

8.5 Natural Hazard Lands

Measures to be followed to mitigate negative impacts to Natural Hazard Lands include the following:

- General best management practices outlined in Section 8.1 will be adhered to.
- Tree removals will be minimized / avoided wherever possible to maintain the treed area of Natural Hazard Lands to the extent possible.
- Upon completion of construction, the staging area will be restored / revegetated with native deciduous trees and shrubs appropriate to local ecological context.

9.0 CONCLUSIONS

The proposed Project has been assessed for potential ecological impacts under the policies of the City of Mississauga (2023), as well as other relevant legislation and policy, including the ESA and PPS (MMAH 2020a). Based on this assessment, it is expected that there will be medium-term negative impacts to the Rosemere Natural Hazard Area through the removal of small portions of the woodlands for staging. However, following rehabilitation of these woodlands it is expected that the form and functions of these woodlands will be restored. Temporary impacts are also expected to Significant Valleylands but are expected to be minor given the short duration of disturbance and other mitigation in place. These conclusions are based on the following recommendations:

- All mitigation measures detailed in Section 8.0 will be implemented.
- A DFO Request for Review will be submitted for work being completed near water at the Rosemere, Elmwood, Hiawatha and west shaft (Marina Park) sites. Dependant upon the type of work being undertaken, residual effects of the Project that may result in the harmful alternation, disruption, or destruction to fish

habitats and/or as a result of the DFO review process, a DFO Fisheries Act Authorization for the Project may be required.

- As work is being completed within CVC regulation limits at the Rosemere, Elmwood, Hiawatha and west shaft (Marina Park) sites, permits from CVC will be obtained for development to proceed, and all mitigation requirements identified in the permits will be implemented.
- Should SWH be confirmed on any of the sites, and the habitat is expected to be disturbed by the proposed construction activities, appropriate mitigation measures will be developed to avoid or eliminate impacts.
- Should habitat for any potential threatened / endangered SAR listed above be confirmed on any of the sites, and the habitat is expected to be disturbed by the proposed construction activities, authorization (registration or permitting) under the ESA will be obtained.

For all sites, a mitigation plan should be refined at the detailed design phase to ensure impacts to all identified features are avoided or minimized. The mitigation plan may involve monitoring of mitigation measures (e.g., erosion and sediment controls), impacts during construction, and long-term impacts following construction and/or restoration of impacted areas. To facilitate this mitigation plan, the following additional studies may be required at the detail design phase to confirm the presence of sensitive natural heritage features or species:

- Targeted field surveys are recommended at the Rosemere site to confirm amphibian movement corridors.
- Breeding bird surveys are recommended at all sites to confirm SAR habitat and SWH.

10.0 LIMITATIONS

The results of this report are based on information available to WSP at the time of the review, and the status of species listed in the noted Acts and Regulations effective as of the date of this technical memo. Limited field investigations by qualified biologists have been conducted to confirm the presence of significant features or habitat, and the review may be subject to limitations associated with base mapping and other publicly available information used.

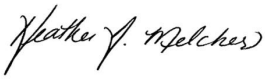
11.0 CLOSURE

We trust this report meets your current needs. If you have any further questions regarding this report, please contact the undersigned.

Signature Page

WSP Canada Inc.

Barbara Bleho, MNRM, RPBio
Lead Ecologist



Heather Melcher, MSc
Director, Ecology and Water Resources

SG/BB/HM/ld

REFERENCES

Canada (Government of Canada). 1985. Fisheries Act R.S.C., 1985, c. F-14. Accessed Dec 2022. Available from: https://laws-lois.justice.gc.ca/eng/acts/f-14/.

Canada. 1994. Migratory Bird Convention Act, 1994. Accessed Dec 2022. Available from: https://laws-lois.justice.gc.ca/eng/acts/m-7.01/

Canada. 2002. Species at Risk Act (S.C. 2002, c. 29). Accessed Dec 2022. Available from: https://laws.justice.gc.ca/eng/acts/s-15.3/

City of Mississauga. 2023. Mississauga Plan. Region of Peel. Accessed May 2023.

CVC (Credit Valley Conservation). 2010. Watershed Planning and Regulation Policies. Available: https://cvc.ca/wp-content/uploads/2011/01/004-CVC-WPR-Policies_APR-2010.pdf.

Credit Valley Conservation (CVC). 2018. Plant Selection Guideline: Species List for Planting Plans within the Credit River Watershed. Website: https://cvc.ca/wp-content/uploads/2018/04/Plant-Selection-Guideline-FINAL-APRIL-24th-2018.pdf.

CVC. 2022. Regulation Mapping. Accessed May 2023: https://cvc.ca/regulation-mapping/

DFO (Fisheries and Oceans Canada). 2018. Pathways of Effects. Accessed May 2023. Available from: https://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html

ECCC (Environment and Climate Change Canada). 2023. Nesting periods. URL: https://www.canada.ca/en/environment-climate-change/services/avoiding-harm-migratory-birds/general-nesting-periods/nesting-periods.html [accessed June 2023]

Golder (Golder Associates Ltd.). 2020. Desktop assessment of natural environment constraints for the Port Credit East Wastewater Servicing Optimization Strategy, Region of Peel, Ontario, November 2020.

MMAH (Ontario Ministry of Municipal Affairs and Housing). 2020. Provincial Policy Statement. URL: https://www.ontario.ca/page/provincial-policy-statement-2020.

MNR (Ontario Ministry of Natural Resources). 2000. Significant Wildlife Habitat Technical Guide (SWHTG). 151 pp.

MNR. 2010. Natural Heritage Reference Manual for Natural Heritage Polices of the Provincial Policy Statement, 2005 Second Edition.

MNR and CVC. 2002. A Cooperative Management Planning Initiative for the Credit River Fishery. Queen's Printer for Ontario. 180 p.

MNRF (Ontario Ministry of Natural Resources and Forestry). 2013. Ontario Wetland Evaluation System (OWES) Manual for Southern Ontario. 3rd Edition.

MNRF. 2014. Significant Wildlife Habitat Mitigation Support Tool. Version 2014.

MNRF. 2015. Significant Wildlife Habitat Criteria Schedules for Ecoregion 7E. Peterborough ON: Ontario Ministry of Natural Resources and Forestry Regional Operations Division, Southern Region Resource Section. https://dr6j45jk9xcmk.cloudfront.net/documents/4776/schedule-7e-jan-2015-access-vers-final-s.pdf. 40 p.

MNRF. 2022. Land Information Ontario, Fish ON-Line. Accessed May 2023. https://www.lioapplications.lrc.gov.on.ca/fishonline/Index.html?viewer=FishONLine.FishONLine&locale=en-CA

MNRF. 2023. Land Information Ontario, Aquatic Resources Area Layer. Fisheries Section, Species Conservation Policy Branch; [accessed November 2022].

NHIC (Natural Heritage Information Centre). 2021. Natural Areas, Species Lists and Element Occurrence Databases. Ontario Ministry of Natural Resources. Peterborough, ON. URL: https://www.ontario.ca/environment-and-energy/natural-heritage-information-centre. Accessed May 2023.

Ontario (Government of Ontario). 1978. The Parkway Belt West Plan. Accessed June 2019.

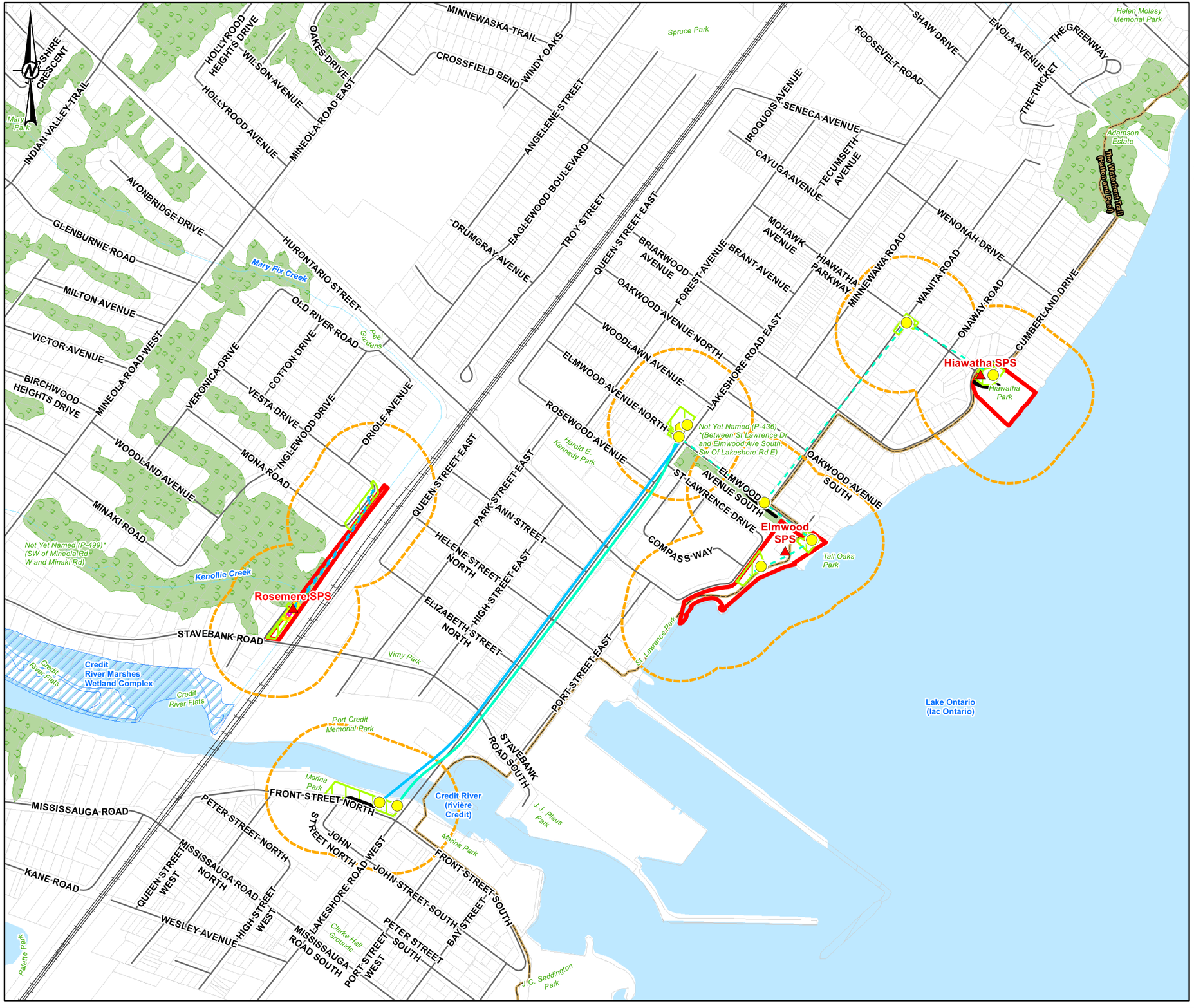
Ontario. 2007. *Endangered Species Act*. S.O. 2007.

Region of Peel. 2022. Region of Peel Official Plan, April, 2022.

Stewart, T.J., A. Todd, and S. LaPan. 2013. Fish Community Objectives for Lake Ontario. Great Lakes Fishery Commission Spec. Pub. 13-? 23 p.

WSP Golder. 2021. Field Verification of Natural Environment Constraints at Short-list Alternatives for the Port Credit East Wastewater Servicing Optimization, Mississauga, Ontario.

FIGURES



LEGEND

- SPS STATION
- TRAIL
- RAILWAY
- ROAD
- WATERCOURSE
- PROVINCIALLY SIGNIFICANT WETLAND
- WATERBODY
- WOODED AREA
- PARCEL BOUNDARY
- SITE
- STUDY AREA (120 m)

PROPOSED INFRASTRUCTURE

- PROPOSED TUNNELLING SHAFT
- PROPOSED SEWER
- PROPOSED TRUNK SEWER (2400MM)
- PROPOSED TWIN FORCEMAIN
- PROPOSED SUB-TRANSMISSION WATERMAIN (750MM)
- PROPOSED STAGING AREA
- TEMPORARY WALKWAY

PROPERTY TO BE ACQUIRED:

- PROPOSED BUILDING FOOTPRINT (ABOVE GROUND)
- PROPOSED FOOTPRINT
- PROPOSED PROPERTY LINE

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2022. CITY OF MISSISSAUGA OPEN DATA, 2021. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2022
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

TITLE
PROJECT OVERVIEW

CONSULTANT

wsp

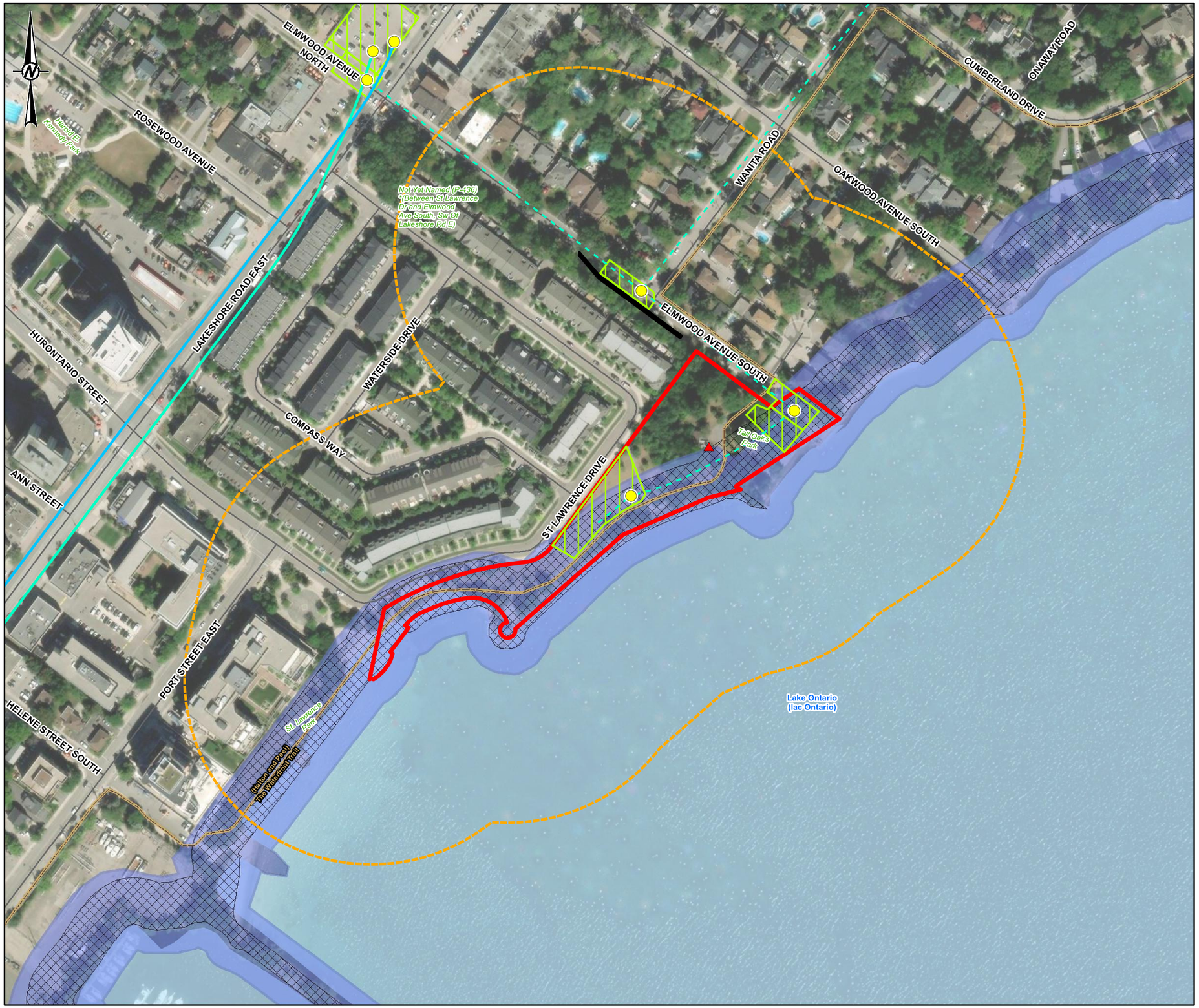
YYYY-MM-DD	2022-11-03
DESIGNED	PR
PREPARED	BR/MG
REVIEWED	BB
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
1912019	----	0	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\11_GIS\ARCGIS\MxdEnv_Intermediate_Figures_20230607\1912019-MxdFeatures-0001.mxd PRINTED ON: 2023-09-15 AT: 3:10:04 PM



LEGEND

- SPS STATION
- TRAIL
- ROAD
- WATERBODY
- NATURAL HAZARD
- CVC REGULATION LIMIT
- SITE
- STUDY AREA (120 m)

PROPOSED INFRASTRUCTURE

- PROPOSED TUNNELLING SHAFT
- PROPOSED SEWER
- PROPOSED TRUNK SEWER (2400MM)
- PROPOSED SUB-TRANSMISSION WATERMAIN (750MM)
- PROPOSED STAGING AREA
- TEMPORARY WALKWAY

0 50 100 150 200

1:2,500 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2022. CITY OF MISSISSAUGA OPEN DATA, 2021. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2022
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

TITLE

SENSITIVE NATURAL FEATURES – ELMWOOD

CONSULTANT

wsp

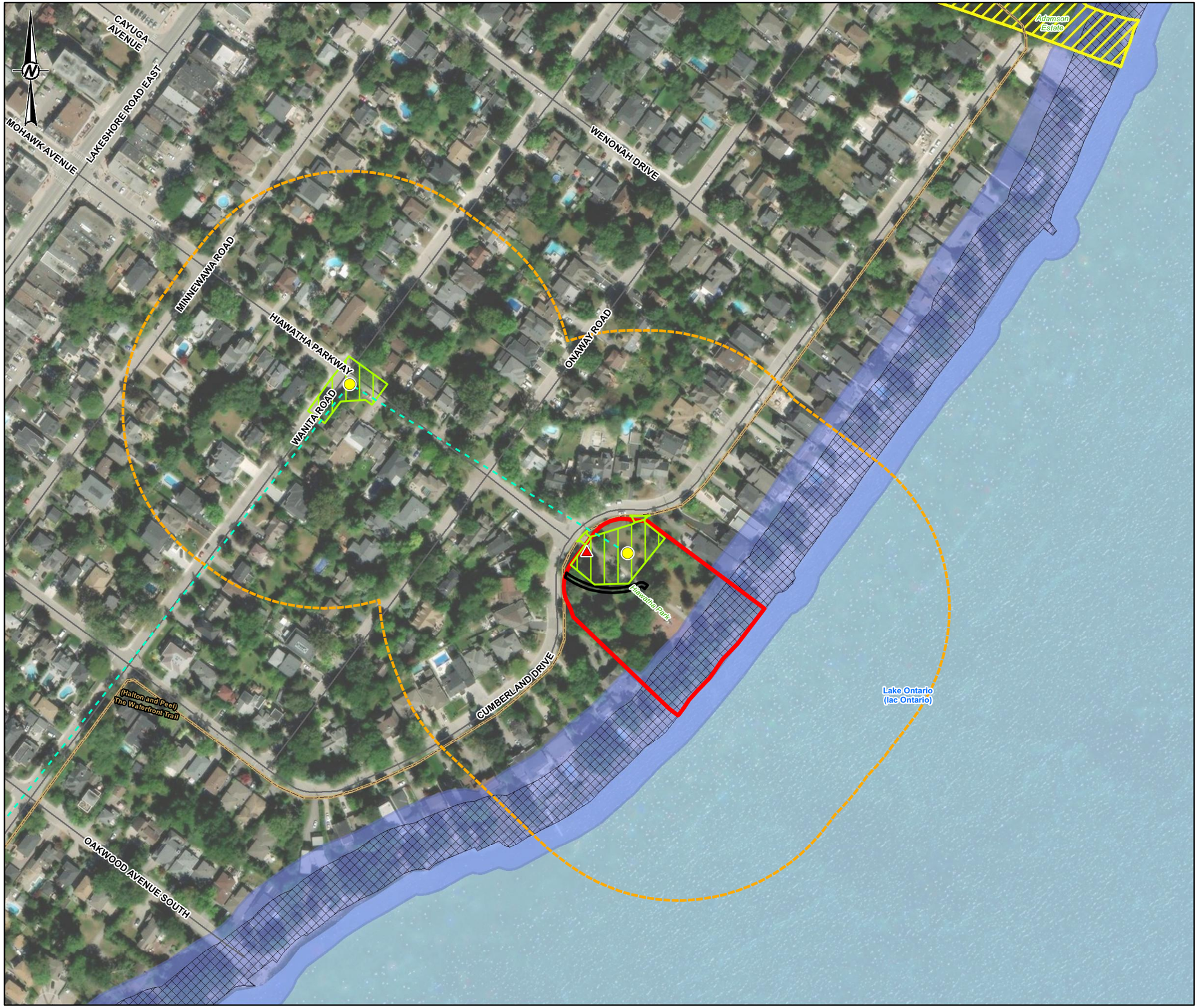
YYYY-MM-DD	2022-11-03
DESIGNED	PR
PREPARED	BR/MG
REVIEWED	BB
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
1912019	----	0	2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\11_GIS\ARCGIS\NatEnv_Intermediate_Figures_20230607\1912019\19-NatFeatures-0002.mxd PRINTED ON: 2023-09-15 AT 3:12:03 PM



LEGEND

- SPS STATION
- TRAIL
- ROAD
- WATERBODY
- SIGNIFICANT NATURAL AREA AND GREEN SPACE
- NATURAL HAZARD
- CVC REGULATION LIMIT
- SITE
- STUDY AREA (120 m)

PROPOSED INFRASTRUCTURE

- PROPOSED TUNNELLING SHAFT
- PROPOSED SEWER
- PROPOSED STAGING AREA
- TEMPORARY WALKWAY

0 50 100 150 200

1:2,500 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2022. CITY OF MISSISSAUGA OPEN DATA, 2021. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2022
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

TITLE
SENSITIVE NATURAL FEATURES – HIAWATHA

CONSULTANT

wsp

YYYY-MM-DD	2022-11-03
DESIGNED	PR
PREPARED	BR/MG
REVIEWED	BB
APPROVED	HM

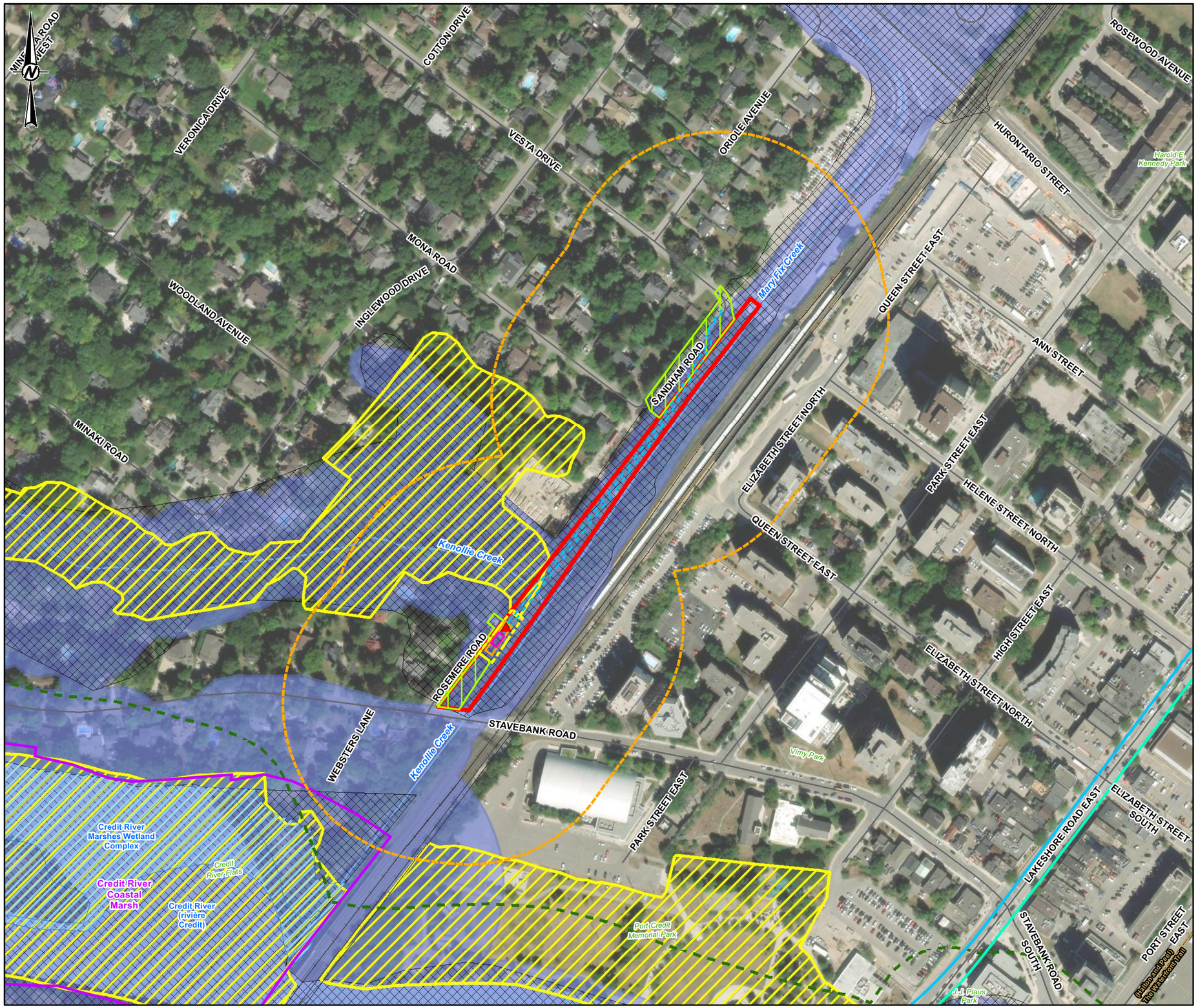
PROJECT NO.	CONTROL	REV.	FIGURE
1912019	----	0	3

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\11_GIS\ARCGIS\NatEnv_Intermediate_Figures_20230607\1912019-NatFeatures-0003.mxd PRINTED ON: 2023-09-15 AT: 3:15:20 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0



LEGEND

- SPS STATION
- TRAIL
- RAILWAY
- ROAD
- WATERCOURSE
- PROVINCIALLY SIGNIFICANT WETLAND
- WATERBODY
- ANSI - LIFE SCIENCE (REGIONAL)
- GREENBELT OUTER BOUNDARY
- SIGNIFICANT NATURAL AREA AND GREEN SPACE
- NATURAL HAZARD
- CVC REGULATION LIMIT
- SITE
- STUDY AREA (120 m)

PROPOSED INFRASTRUCTURE

- PROPOSED TRUNK SEWER (2400MM)
- PROPOSED TWIN FORCEMAIN
- PROPOSED SUB-TRANSMISSION WATERMAIN (750MM)
- PROPOSED STAGING AREA

PROPERTY TO BE ACQUIRED:

- PROPOSED BUILDING FOOTPRINT (ABOVE GROUND)
- PROPOSED FOOTPRINT
- PROPOSED PROPERTY LINE

0 50 100 150 200

1:3,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2022. CITY OF MISSISSAUGA OPEN DATA, 2021. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2022
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

TITLE
SENSITIVE NATURAL FEATURES – ROSEMERE

CONSULTANT

wsp

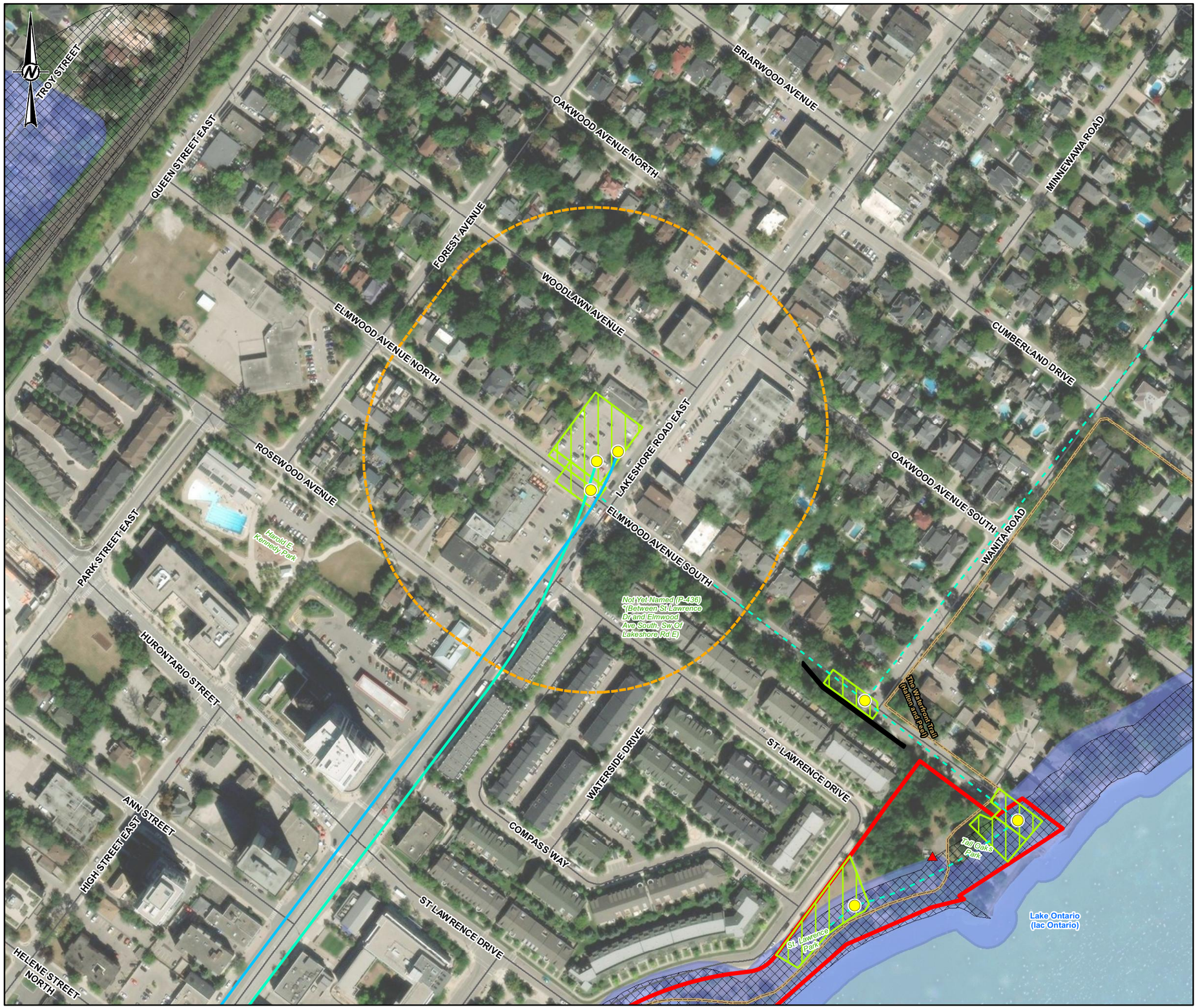
YYYY-MM-DD	2022-11-03
DESIGNED	PR
PREPARED	BR/MG
REVIEWED	BB
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
1912019	----	0	4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\11_GIS\ARCGIS\Mxd\Env_Intermediate_Figures_20230607\1912019-NatFeatures-0004.mxd PRINTED ON: 2023-09-15 AT: 3:13:42 PM



LEGEND

- SPS STATION
- TRAIL
- RAILWAY
- ROAD
- WATERBODY
- NATURAL HAZARD
- CVC REGULATION LIMIT
- SITE
- STUDY AREA (120 m)

PROPOSED INFRASTRUCTURE

- PROPOSED TUNNELLING SHAFT
- PROPOSED SEWER
- PROPOSED TRUNK SEWER (2400MM)
- PROPOSED SUB-TRANSMISSION WATERMAIN (750MM)
- PROPOSED STAGING AREA
- TEMPORARY WALKWAY

0 50 100 150 200

1:2,500 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2022. CITY OF MISSISSAUGA OPEN DATA, 2021. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2022
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

TITLE

SENSITIVE NATURAL FEATURES – LAKESHORE ROAD EAST - MUNICIPAL PARKING LOT (EAST SHAFT)

CONSULTANT

wsp

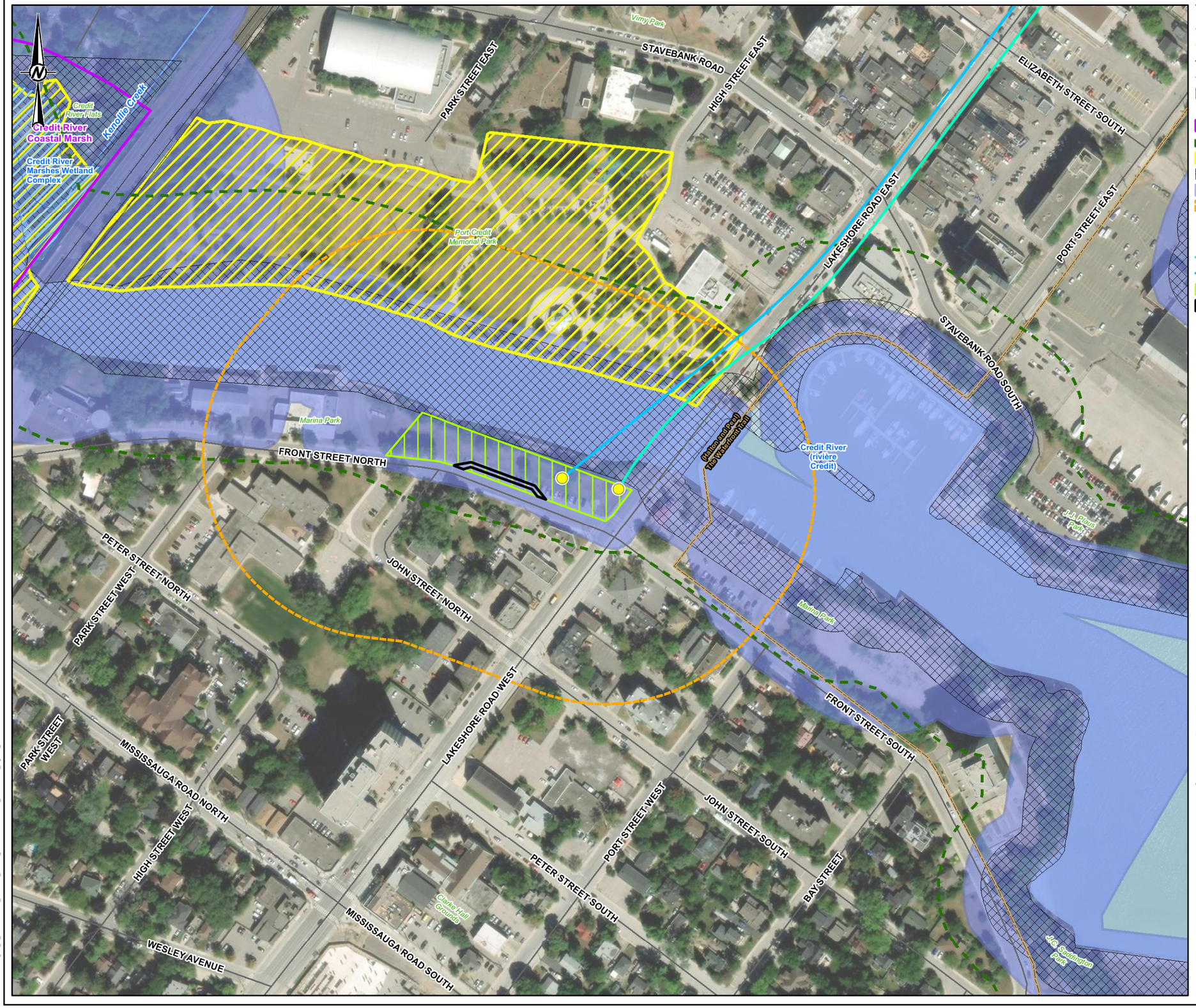
YYYY-MM-DD	2022-11-03
DESIGNED	PR
PREPARED	BR/MG
REVIEWED	BB
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
1912019	----	0	5

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\11_GIS\ARCGIS\MapEnv_Intermediate_Figures_20230607\19126019-NatFeatures-r0005.mxd PRINTED ON: 2023-06-15 AT: 3:16:39 PM



LEGEND

- TRAIL
- RAILWAY
- ROAD
- WATERCOURSE
- PROVINCIALLY SIGNIFICANT WETLAND
- WATERBODY
- ANSI - LIFE SCIENCE (REGIONAL)
- GREENBELT OUTER BOUNDARY
- SIGNIFICANT NATURAL AREA AND GREEN SPACE
- NATURAL HAZARD
- CVC REGULATION LIMIT
- STUDY AREA (120 m)

PROPOSED INFRASTRUCTURE

- PROPOSED TUNNELLING SHAFT
- PROPOSED TRUNK SEWER (2400MM)
- PROPOSED SUB-TRANSMISSION WATERMAIN (750MM)
- PROPOSED STAGING AREA
- TEMPORARY WALKWAY

0 50 100 150 200

1:2,500 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2022. CITY OF MISSISSAUGA OPEN DATA, 2021. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2022
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

TITLE
SENSITIVE NATURAL FEATURES – LAKESHORE ROAD WEST - MARINA PARK (WEST SHAFT)

CONSULTANT

wsp

YYYY-MM-DD	2022-11-03
DESIGNED	PR
PREPARED	BR/MG
REVIEWED	BB
APPROVED	HM

PROJECT NO.	CONTROL	REV.	FIGURE
1912019	----	0	6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\11_GIS\ARCGIS\NatEnv_Intermediate_Figures_20230607\1912019-NatFeatures-0006.mxd PRINTED ON: 2022-09-15 AT: 3:18:44 PM

APPENDIX A

Species At Risk Screening

Taxon	Common Name	Scientific Name	Endangered Species Act[1]	Species at Risk Act (Sch 1)[2]	COSEWIC[3]	Provincial (SRank)[4]	Habitat Requirements	Potential to Occur on the Site	Potential to Occur Off-Site, Within the Study Area	Rationale for Potential to Occur in the Study Area
Amphibian	Jefferson salamander	*Ambystoma jeffersonianum*	END	END	END	S2	In Ontario, Jefferson salamander is found only in southern Ontario, along southern portions of the Niagara Escarpment and western portions of the Oak Ridges Moraine. Jefferson salamander prefers moist, well-drained deciduous and mixed forests with a closed canopy. It overwinters underground in mammal burrows and rock fissures and moves to vernal pools and ephemeral wetlands in the early spring to breed. Breeding ponds are typically located in or near to forested habitats, and contain submerged debris (i.e., sticks, vegetation) for egg attachment sites. Ephemeral breeding pools need to have water until at least mid-summer (mid to late July) (Jefferson Salamander Recovery Team 2010).	Low	Low	There is no suitable forest or wetland habitat in any of the study areas.
Arthropod	Monarch	*Danaus plexippus*	SC	SC	END	S2N, S4B	In Ontario, monarch is found throughout the northern and southern regions of the province. This butterfly is found wherever there are milkweed (Asclepias spp.) plants for its caterpillars and wildflowers that supply a nectar source for adults. It is often found on abandoned farmland, meadows, open wetlands, prairies and roadsides, but also in city gardens and parks. Important staging areas during migration occur along the north shores of the Great Lakes (COSEWIC 2010).	Moderate (Elmwood) (Rosemere) (West Shaft) High (Hiawatha)	Moderate (Elmwood) (Hiawatha) (Rosemere) (West Shaft) (East Shaft)	All of the identified sites provide suitable foraging habitat, and breeding habitat (i.e., presence of milkweed) was confirmed on the Rosemere site and in the east shaft study area (off-site). One adult butterfly was also observed on the Hiawatha site during the October 2022 field reconnaissance.
Arthropod	Mottled duskywing	*Erynnis martialis*	END	—	END	S2	In Ontario, the mottled duskywing is found in the same habitat as its food plant Ceanothus spp.: open or partially open, dry, sandy areas, or limestone alvars. These habitats are relatively uncommon and include dry open pine and pine oak woodland, other open dry woodlands, alvars, savannah and other dry open sandy habitats. Usually seen nectaring on wildflowers, or on wet sandy roads in the company of other duskywing species (Linton 2015).	Low	Low	There is limited dry open sandy habitats in the study areas. This species has not been observed in the vicinity of the study areas since 1950.
Bird	Bald eagle	*Haliaeetus leucocephalus*	SC	—	NAR	S2N,S4B	In Ontario, bald eagle nests are typically found near the shorelines of lakes or large rivers, often on forested islands. The large, conspicuous nests are typically found in large super-canopy trees along water bodies (Buehler 2000).	Low	Low	There are no super-canopy shoreline trees in any of the study areas. No nests were observed during field investigations.
Bird	Bank swallow	*Riparia*	THR	THR	THR	S4B	In Ontario, bank swallow breeds in a variety of natural and anthropogenic habitats, including lake bluffs, stream and riverbanks, sand and gravel pits, and roadcuts. Nests are generally built in a vertical or near-vertical bank. Breeding sites are typically located near open foraging sites such as rivers, lakes, grasslands, agricultural fields, wetlands and riparian woods. Forested areas are generally avoided (Garrison 1999).	Low	Low	There are no vertical banks in the study areas that would provide suitable nesting habitat for this species.

Taxon	Common Name	Scientific Name	Endangered Species Act[1]	Species at Risk Act (Sch 1)[2]	COSEWIC[3]	Provincial (SRank)[4]	Habitat Requirements	Potential to Occur on the Site	Potential to Occur Off-Site, Within the Study Area	Rationale for Potential to Occur in the Study Area
Bird	Barn swallow	*Hirundo rustica*	SC	THR	SC	S4B	In Ontario, barn swallow breeds in areas that contain a suitable nesting structure, open areas for foraging, and a body of water. This species nests in human made structures including barns, buildings, sheds, bridges, and culverts. Preferred foraging habitat includes grassy fields, pastures, agricultural cropland, lake and river shorelines, cleared right-of-way's, and wetlands (COSEWIC 2011). Mud nests are fastened to vertical walls or built on a ledge underneath an overhang. Suitable nests from previous years are reused (Brown and Brown 2019).	Low	Low	There are no structures that may provide suitable nesting habitat in any of the study areas.
Bird	Bobolink	*Dolichonyx oryzivorus*	THR	THR	SC	S4B	In Ontario, bobolink breeds in grasslands or graminoid dominated hayfields with tall vegetation (Gabhauer 2007). Bobolink prefers grassland habitat with a forb component and a moderate litter layer. They have low tolerance for presence of woody vegetation and are sensitive to frequent mowing within the breeding season. They are most abundant in established, but regularly maintained, hayfields, but also breed in lightly grazed pastures, old or fallow fields, cultural meadows and newly planted hayfields. Their nest is woven from grasses and forbs. It is built on the ground, in dense vegetation, usually under the cover of one or more forbs (Renfrew et al. 2015).	Low	Low	There is no suitable grassland or meadow habitat for this species on the sites or within the study areas.
Bird	Chimney swift	*Chaetura pelagica*	THR	THR	THR	S4B, S4N	In Ontario, chimney swift breeding habitat is varied and includes urban, suburban, rural and wooded sites. They are most commonly associated with towns and cities with large concentrations of chimneys. Preferred nesting sites are dark, sheltered spots with a vertical surface to which the bird can grip. Unused chimneys are the primary nesting and roosting structure, but other anthropogenic structures and large diameter cavity trees are also used (COSEWIC 2007).	Low	Moderate (Elmwood) (Hiawatha) (Rosemere) (West Shaft) (East Shaft)	There are no structures or large cavity trees that may provide suitable nesting habitat on the sites. Off-site, chimneys in residential areas in all study areas may provide suitable nesting and roosting habitat.
Bird	Common nighthawk	*Chordeiles minor*	SC	THR	SC	S4B	In Ontario, these aerial foragers require areas with large open habitat. This includes farmland, open woodlands, clearcuts, burns, rock outcrops, alvars, bogs, fens, prairies, gravel pits and gravel rooftops in cities (Sandilands 2007)	Low	Low	There are limited large areas of open habitat preferred by this species in the study areas.
Bird	Eastern meadowlark	*Sturnella magna*	THR	THR	THR	S4B	In Ontario, eastern meadowlark breeds in pastures, hayfields, meadows and old fields. Eastern meadowlark prefers moderately tall grasslands with abundant litter cover, high grass proportion, and a forb component (Hull 2019). They prefer well drained sites or slopes, and sites with different cover layers (Roseberry and Klimstra 1970).	Low	Low	There is no suitable grassland or meadow habitat for this species on the sites or within the study areas.

Taxon	Common Name	Scientific Name	Endangered Species Act[1]	Species at Risk Act (Sch 1)[2]	COSEWIC[3]	Provincial (SRank)[4]	Habitat Requirements	Potential to Occur on the Site	Potential to Occur Off-Site, Within the Study Area	Rationale for Potential to Occur in the Study Area
Bird	Eastern wood-pewee	*Contopus virens*	SC	SC	SC	S4B	In Ontario, eastern wood-pewee inhabits a wide variety of wooded upland and lowland habitats, including deciduous, coniferous, or mixed forests. It occurs most frequently in forests with some degree of openness. Intermediate-aged forests with a relatively sparse midstory are preferred. In younger forests with a relatively dense midstory, it tends to inhabit the edges. Also occurs in anthropogenic habitats providing an open forested aspect such as parks and suburban neighborhoods. Nest is constructed atop a horizontal branch, 1-2 m above the ground, in a wide variety of deciduous and coniferous trees (COSEWIC 2012).	Moderate (Rosemere)	Moderate (Rosemere)	The deciduous forest overlapping the Rosemere site and study area may provide suitable nesting habitat for this species.
Bird	Henslow's sparrow	*Ammodramus henslowii*	END	END	END	SHB	In Ontario, Henslow's sparrow breeds in large grasslands with low disturbance, such as lightly grazed and ungrazed pastures, fallow hayfields, grassy swales in open farmland, and wet meadows. Preferred habitat contains tall, dense grass cover, typically over 30 cm high, with a high percentage of ground cover, and a thick mat of dead plant material. Henslow's sparrow generally avoids areas with emergent woody shrubs or trees, and fence lines. Areas of standing water or ephemerally wet patches appear to be important. This species breeds more frequently in patches of habitat greater than 30 ha and preferably greater than 100 ha (COSEWIC 2011).	Low	Low	There is no undisturbed grassland or meadow habitat preferred by this species on the sites or in the study areas.
Bird	Peregrine falcon (anatum/tundrius subspecies)	*Falco peregrinus anatum/tundrius*	SC	SC	Not at Risk	S3B	In Ontario, peregrine falcon breeds in areas containing suitable nesting locations and sufficient prey resources. Such habitat includes both natural locations containing cliff faces (heights of 50 - 200 m preferred) and anthropogenic landscapes including urban centres containing tall buildings, open pit mines and quarries, and road cuts. Peregrine falcons nest on cliff ledges and crevices and building ledges. Nests consist of a simple scrape in the substrate (COSEWIC 2017).	Low	Low	There are no tall buildings that may provide suitable nesting habitat for this species on the sites or within the study areas.
Bird	Red-headed woodpecker	*Melanerpes erythrocephalus*	END	THR	END	S4	In Ontario, red-headed woodpecker breeds in open, deciduous woodlands or woodland edges and are often found in parks, cemeteries, golf courses, orchards and savannahs (Woodliffe 2007). They may also breed in forest clearings or open agricultural areas provided that large trees are available for nesting. They prefer forests with little or no understory vegetation. They are often associated with beech or oak forests, beaver ponds and swamp forests where snags are numerous. Nests are excavated in the trunks of large dead trees (Frei et al. 2017).	Moderate (Elmwood) (Hiawatha) (Rosemere)	Moderate (Rosemere) (East Shaft) (Hiawatha)	Large oak trees observed throughout the Elmwood and Hiawatha sites may provide suitable nesting habitat. The deciduous forest overlapping the Rosemere site and study area, and the deciduous forest immediately south of the east shaft site, may provide suitable nesting habitat for this species.

Taxon	Common Name	Scientific Name	Endangered Species Act[1]	Species at Risk Act (Sch 1)[2]	COSEWIC[3]	Provincial (SRank)[4]	Habitat Requirements	Potential to Occur on the Site	Potential to Occur Off-Site, Within the Study Area	Rationale for Potential to Occur in the Study Area
Bird	Wood thrush	*Hylocichla mustelina*	SC	THR	THR	S4B	In Ontario, wood thrush breeds in moist, deciduous hardwood or mixed stands that are often previously disturbed, with a dense deciduous undergrowth and with tall trees for singing perches. This species selects nesting sites with the following characteristics: lower elevations with trees less than 16 m in height, a closed canopy cover (>70%), a high variety of deciduous tree species, moderate subcanopy and shrub density, shade, fairly open forest floor, moist soil, and decaying leaf litter (COSEWIC 2012).	Moderate (Rosemere)	Moderate (Rosemere)	The deciduous forest overlapping the Rosemere site and study area may provide suitable nesting habitat for this species.
Fish	American eel	*Anguilla rostrata*	END	—	THR	S1?	In Ontario, American eel is native to the Lake Ontario, St. Lawrence River and Ottawa River watersheds. Their current distribution includes lakes Huron, Erie, and Superior and their tributaries. The Ottawa River population is considered extirpated. The preferred habitat of the American eel is cool water of lakes and streams with muddy or silty substrates in water temperatures between 16 and 19°C. The American eel is a catadromous fish that lives in fresh water until sexual maturity then migrates to the Sargasso Sea to spawn (Burridge et al. 2010; Eakins 2016).	Low	Low	Kenollie Creek, and Mary Fix Creek overlapping the Rosemere site and study area are small warmwater creeks that are unlikely to provide suitable habitat. The Credit River in the west shaft study area is also unlikely to provide suitable habitat and is not included in the current species' distribution. Although two dead individuals were observed along the Lake Ontario shoreline on the Elmwood site, the area of the lake adjacent to the site as well as the Hiawatha site, does not have suitable conditions to provide habitat for this species.
Fish	Deepwater sculpin - Great Lakes / Western St. Lawrence population	*Myoxocephalus thompsoni*	—	SC	SC	S3?	In Ontario, deepwater sculpin are found in Lakes Huron, Ontario, and Superior, as well as in scattered inland lakes. This fish species prefers cold, deep water (usually between 60-150 m in lakes), with soft substrates. Spawning takes place year-round, but peaks in August and early September. Its lifespan is 7 years, with females maturing at 3 years and males at 2 years (DFO 2019).	Low	Low	Kenollie Creek and Mary Fix Creek overlapping the Rosemere site and study area are small warmwater creeks that are unlikely to provide suitable habitat. The Credit River in the west shaft study area is also unlikely to provide suitable habitat. The area of Lake Ontario adjacent to the Elmwood and Hiawatha sites does not have suitable conditions to provide habitat for this species.
Fish	Greater redhorse	*Moxostoma valenciennesi*	—	—	—	S3	In Ontario, greater redhorse are fond in the Upper St. Lawrence River, Ottawa River and tributaries, Lake Champlain, tributaries of Lake Ontario, Lake Erie, Lake St. Clair and Lake Huron, north to the Spanish River (Scott 1983; Eakins 2019). Habitat preferences include moderate to swift flowing medium to large rivers with coarse substrates and riffles for spawning, that occurs in late spring early summer at temperatures around 13°C (Eakins 2019; Holm et al. 2010). Cool bottom waters of runs and pools are used as foraging habitats (Holm et al. 2010).	Moderate	Moderate	Kenollie Creek and Mary Fix Creek overlapping the Rosemere site and study area are small warmwater creeks that are unlikely to provide suitable habitat. The Credit River in the west shaft study area may provide suitable habitat for this species.

Taxon	Common Name	Scientific Name	Endangered Species Act[1]	Species at Risk Act (Sch 1)[2]	COSEWIC[3]	Provincial (SRank)[4]	Habitat Requirements	Potential to Occur on the Site	Potential to Occur Off-Site, Within the Study Area	Rationale for Potential to Occur in the Study Area
Fish	Lake sturgeon - Great Lakes / Upper St. Lawrence population	*Acipenser fulvescens*	END	—	THR	S2	In Ontario, lake sturgeon, a large prehistoric freshwater fish, is found in all the Great Lakes and in all drainages of the Great Lakes and of Hudson Bay. This species typically inhabits highly productive shoal areas of large lakes and rivers. They are bottom dwellers and prefer depths between 5-10 m and mud or gravel substrates. Small sturgeons are often found on gravelly shoals near the mouths of rivers. They spawn in depths of 0.5 to 4.5 m in areas of swift water or rapids. Where suitable spawning rivers are not available, such as in the lower Great Lakes, they are known to spawn in wave action over rocky ledges or around rocky islands (Golder 2011).	Low	Low	Kenollie Creek and Mary Fix Creek overlapping the Rosemere site and study area are small warmwater creeks that are unlikely to provide suitable habitat. The Credit River in the west shaft study area is also unlikely to provide suitable habitat. The area of Lake Ontario adjacent to the Elmwood and Hiawatha sites does not have suitable conditions to provide habitat for this species.
Fish	Redside dace	*Clinostomus elongatus*	END	END	END	S2	In Ontario, redside dace, a small cool water species common in the USA but less so in Canada, is found in tributaries of western Lake Ontario, Lake Erie, Lake Huron and Lake Simcoe. They are found in pools and slow-moving areas of small headwater streams with clear to turbid water. Overhanging grasses, shrubs, and undercut banks, are an important part of their habitat, as are instream boulders and large woody debris. Preferred substrates are variable and include silt, sand, gravel and boulders. Spawning occurs in shallow riffle areas (Redside Dace Recovery Team 2010).	Low	Low	Kenollie Creek and Mary Fix Creek overlapping the Rosemere site and study area are small warmwater creeks that are unlikely to provide suitable habitat. The Credit River in the west shaft study area is also unlikely to provide suitable habitat.
Fish	Shortnose cisco	*Coregonus reighardi*	END	END	END	SH	In Ontario, shortnose cisco species was last reported in Georgian Bay in 1985 and Lake Ontario in 1964. It prefers clear, deep waters and water temperatures between 2 and 10°C (COSEWIC 2005).	Low	Low	Kenollie Creek and Mary Fix Creek overlapping the Rosemere site and study area are small warmwater creeks that are unlikely to provide suitable habitat. The Credit River in the west shaft study area is also unlikely to provide suitable habitat. The area of Lake Ontario adjacent to the Elmwood and Hiawatha sites does not have suitable conditions to provide habitat for this species.
Fish	Upper Great Lakes kiyi	*Coregonus kiyi*	SC	SC	SC	S3	In Ontario, kiyi occurs in Lake Superior. The kiyi was last seen in Lake Ontario in 1964 and Lake Huron in 1973. The Kiyi is a cold-water species that prefers temperatures between 3.7 and 4.6°C and depths ranging from 35 to 200 m; however, it is rarely found in waters less than 108 m deep. Kiyi have been collected over lake bottoms of clay and mud substrates. Spawning generally occurs in the late fall at depths greater than 100 m (COSEWIC 2005).	Low	Low	Kenollie Creek and Mary Fix Creek overlapping the Rosemere site and study area are small warmwater creeks that are unlikely to provide suitable habitat. The Credit River in the west shaft study area is also unlikely to provide suitable habitat. The area of Lake Ontario adjacent to the Elmwood and Hiawatha sites does not have suitable conditions to provide habitat for this species.

Taxon	Common Name	Scientific Name	Endangered Species Act[1]	Species at Risk Act (Sch 1)[2]	COSEWIC[3]	Provincial (SRank)[4]	Habitat Requirements	Potential to Occur on the Site	Potential to Occur Off-Site, Within the Study Area	Rationale for Potential to Occur in the Study Area
Mammal	Eastern small-footed myotis	*Myotis leibii*	END	—	—	S2S3	In Ontario, eastern small-footed myotis is not known to roost in trees, but there is very little known about its roosting habits. The species generally roosts on the ground under rocks, in rock crevices, talus slopes and rock piles, but it occasionally inhabits buildings. Entrances of caves or abandoned mines where humidity is low, and temperatures are cool and sometimes subfreezing may be used as hibernacula (Humphrey 2017).	Low	Low	It is unlikely the riprap along the lake provides suitable maternity roosting habitat and no features suitable for hibernacula are present.
Mammal	Little brown myotis	*Myotis lucifugus*	END	END	END	S3	In Ontario, this species' range is extensive and covers much of the province. It will roost in both natural and man-made structures. Roosting colonies require a number of large dead trees, in specific stages of decay and that project above the canopy in relatively open areas. May form nursery colonies in the attics of buildings within 1 km of water. Caves or abandoned mines may be used as hibernacula, but high humidity and stable above freezing temperatures are required (ECCC 2018).	Low	Low	Suitable forested habitat with ELC codes associated with bat habitat (e.g., FOD, FOM, SWD, SWM) are not present (or very limited at the east shaft location) within the sites or study areas. Additionally, given the urban nature of the Project, any forest remnants or mature trees are unlikely to provide habitat for this species.
Mammal	Northern myotis	*Myotis septentrionalis*	END	END	END	S3	In Ontario, this species' range is extensive and covers much of the province. It will usually roost in hollows, crevices, and under loose bark of mature trees. Roosts may be established in the main trunk or a large branch of either living or dead trees. Caves or abandoned mines may be used as hibernacula, but high humidity and stable above freezing temperatures are required (ECCC 2018).	Low	Low	Suitable forested habitat with ELC codes associated with bat habitat (e.g., FOD, FOM, SWD, SWM) are not present (or very limited at the east shaft location) within the sites or study areas. Additionally, given the urban nature of the Project, any forest remnants or mature trees are unlikely to provide habitat for this species.
Mammal	Tri-colored bat	*Perimyotis subflavus*	END	END	END	S3?	In Ontario, tri-colored bat may roost in foliage, in clumps of old leaves, hanging moss or squirrel nests. They are occasionally found in buildings although there are no records of this in Canada. They typically feed over aquatic areas with an affinity to large-bodied water and will likely roost in close proximity to these. Hibernation sites are found deep within caves or mines in areas of relatively warm temperatures. These bats have strong roost fidelity to their winter hibernation sites and may choose the exact same spot in a cave or mine from year to year (ECCC 2018).	Low	Low	Suitable forested habitat with ELC codes associated with bat habitat (e.g., FOD, FOM, SWD, SWM) are not present (or very limited at the east shaft location) within the sites or study areas. Additionally, given the urban nature of the Project, any forest remnants or mature trees are unlikely to provide habitat for this species.

Taxon	Common Name	Scientific Name	Endangered Species Act[1]	Species at Risk Act (Sch 1)[2]	COSEWIC[3]	Provincial (SRank)[4]	Habitat Requirements	Potential to Occur on the Site	Potential to Occur Off-Site, Within the Study Area	Rationale for Potential to Occur in the Study Area
Reptile	Blanding's turtle - Great Lakes / St. Lawrence population	*Emydoidea blandingii*	THR	END	END	S3	In Ontario, Blanding's turtle will use a range of aquatic habitats, but favor those with shallow, standing or slow-moving water, rich nutrient levels, organic substrates and abundant aquatic vegetation. They will use rivers but prefer slow-moving currents and are likely only transients in this type of habitat. This species is known to travel great distances over land in the spring in order to reach nesting sites, which can include dry conifer or mixed forests, partially vegetated fields, and roadsides. Suitable nesting substrates include organic soils, sands, gravel and cobble. They hibernate underwater and infrequently under debris close to water bodies (COSEWIC 2016).	Low	Low	There are no wetlands on the sites or within the study areas.
Reptile	Milksnake	*Lampropeltis triangulum*	NAR	SC	SC	S4	In Ontario, milksnake uses a wide range of habitats including prairies, pastures, hayfields, wetlands and various forest types, and is well-known in rural areas where it frequents older buildings. Proximity to water and cover enhances habitat suitability. Hibernation takes place in mammal burrows, hollow logs, gravel or soil banks, and old foundations (COSEWIC 2014).	Low	Low	It is unlikely the limited forested habitat in the study areas is suitable for this species.
Reptile	Northern map turtle	*Graptemys geographica*	SC	SC	SC	S3	In Ontario, northern map turtle prefers large waterbodies with slow-moving currents, soft substrates, and abundant aquatic vegetation. Ideal stretches of shoreline contain suitable basking sites, such as rocks and logs. Along Lakes Erie and Ontario, this species occurs in marsh habitat and undeveloped shorelines. It is also found in small to large rivers with slow to moderate flow. Hibernation takes place in soft substrates under deep water (COSEWIC 2012).	Low	Low	The shorelines of Lake Ontario and the Credit River are likely too developed to provide suitable habitat.
Reptile	Snapping turtle	*Chelydra serpentina*	SC	SC	SC	S3	In Ontario, snapping turtle uses a wide range of waterbodies, but shows preference for areas with shallow, slow-moving water, soft substrates and dense aquatic vegetation. Hibernation takes place in soft substrates under water. Nesting sites consist of sand or gravel banks along waterways or roadways (COSEWIC 2008).	Low	Low	The shorelines of Lake Ontario and the Credit River are likely too developed to provide suitable habitat. Kenollie Creek and Mary Fix Creek have concrete bed and banks and are unlikely to provide suitable habitat conditions.
Reptile	Stinkpot or Eastern musk turtle	*Sternotherus odoratus*	SC	SC	SC	S3	In Ontario, eastern musk turtle is very rarely out of water and prefers permanent bodies of water that are shallow and clear, with little or no current and soft substrates with abundant organic materials. Abundant floating and submerged vegetation is preferred. Hibernation occurs in soft substrates under water. Eggs are sometimes laid on open ground, or in shallow nests in decaying vegetation, shallow gravel or rock crevices (COSEWIC 2012).	Low	Low	The shorelines of Lake Ontario and the Credit River are likely too developed to provide suitable habitat.
Vascular Plant	American ginseng	*Panax quinquefolius*	END	END	END	S2	In Ontario, American ginseng is found in moist, undisturbed and relatively mature deciduous woods often dominated by sugar maple. It is commonly found on well-drained, south-facing slopes. American ginseng grows under closed canopies in well-drained soils of glacier origin that have a neutral pH (ECCC 2018).	Low	Low	There is no undisturbed forest habitat in any of the study areas.

Taxon	Common Name	Scientific Name	Endangered Species Act[1]	Species at Risk Act (Sch 1)[2]	COSEWIC[3]	Provincial (SRank)[4]	Habitat Requirements	Potential to Occur on the Site	Potential to Occur Off-Site, Within the Study Area	Rationale for Potential to Occur in the Study Area
Vascular Plant	American hart's-tongue fern	*Asplenium scolopendrium*	SC	SC	SC	S3	In Ontario, American hart's-tongue fern grows on thin calcareous soils on or near dolomitic limestone of the Niagara Escarpment, and occasionally on open talus/scree slopes. Most populations are found on steep, moderately moist slopes that face north to northeast and are under a hardwood canopy cover (Environment Canada 2013).	Low	Low	The study areas do not contain thin soils preferred by this species.
Vascular Plant	Butternut	*Juglans cinerea*	END	END	END	S2?	In Ontario, butternut is found along stream banks, on wooded valley slopes, and in deciduous and mixed forests. It is commonly associated with beech, maple, oak and hickory (Voss and Reznicek 2012). Butternut prefers moist, fertile, well-drained soils, but can also be found in rocky limestone soils. This species is shade intolerant (Farrar 1995).	High (Elmwood)	High (Rosemere)	The small woodland patch in the northern portion of the Elmwood site could provide the suitable growing conditions for butternut. No individuals were observed during the site reconnaissance, but a detailed botanical inventory was not conducted due to access restrictions. Off-site portions of the deciduous forest overlapping the Rosemere site and study area may provide suitable growing conditions for this species. No butternuts were observed in the on-site portion of the deciduous forest.
Vascular Plant	Cleland's evening-primrose	*Oenothera clelandii*	—	—	—	S1	In Ontario, Cleland's evening-primrose grows in prairie habitat and on dry, open ground (Oldham and Brinker 2009).	Low	Low	There is no prairie habitat on the sites or in the study areas.
Vascular Plant	Clinton's clubrush	*Trichophorum clintonii*	—	—	—	S2S3	In Ontario, Clinton's clubrush grows in prairies, open woods, and rocky crevices along rivers (Oldham and Brinker 2009).	Low	Low	This species may be present along the shorelines of Lake Ontario, though the anthropogenically armoured shorelines are likely too disturbed.
Vascular Plant	Dense blazing star	*Liatris spicata*	THR	THR	THR	S2	In Ontario, dense blazing star is found mainly in moist tall-grass prairies, oak savannahs, wet meadows and along roadsides in full sun in open areas (COSEWIC 2010). It grows in moist to wet, sandy calcareous soils (WDNR 2019). It is primarily restricted to southwestern Ontario.	Low	Low	This species is not likely to be present in the disturbed, anthropogenically developed landscape in the study areas.
Vascular Plant	Hill's pondweed	*Potamogeton hillii*	SC	SC	SC	S2S3	In Ontario, Hill's pondweed grows in the muddy substrates of cold, clear, slow-moving, calcareous streams, ditches, and ponds. It is found in water up to 1 m in depth. Often found near flow obstructions including the upstream side of road culverts, among stumps and fallen trees, or in shallow water among rushes and sedges (Parks Canada Agency 2014).	Low	Low	There are no coldwater streams or ponds on the sites or in the study areas.
Vascular Plant	Kentucky coffee-tree	*Gymnocladus dioicus*	THR	THR	THR	S2	In Ontario, Kentucky coffee-tree is found in rich, mesic and floodplain forests. Populations are scattered throughout the Carolinian forest in Ontario, but are commonly found near streams, rivers, former swamps and wetlands. Kentucky coffee-tree thrives in disturbed areas, but can survive in most habitats, even difficult ones (e.g., bare or poor soils) as long as sunlight is present (Environment Canada 2014). This species prefers deep, rich soils.	High (Elmwood)	Low	Planted Kentucky coffee-trees were observed in the centre of the Elmwood site (i.e., within the park). Planted specimens are not protected under the ESA.

Taxon	Common Name	Scientific Name	Endangered Species Act[1]	Species at Risk Act (Sch 1)[2]	COSEWIC[3]	Provincial (SRank)[4]	Habitat Requirements	Potential to Occur on the Site	Potential to Occur Off-Site, Within the Study Area	Rationale for Potential to Occur in the Study Area
Vascular Plant	Schreber's wood aster	*Eurybia schreberi*	—	—	—	S2	Schreber's wood aster grows in woodland habitat.	Low	Low	There is limited woodland habitat in the study areas preferred by this species.
Vascular Plant	Smooth yellow false foxglove	*Aureolaria flava*	—	—	THR	S2?	Smooth yellow false foxglove is generally found in dry, open upland oak savannas and woodlands (Arkansas Native Plant Society 2019; Canada 2019).	Low	Low	There is limited dry woodland habitat on the sites or in the study areas preferred by this species.

Notes:

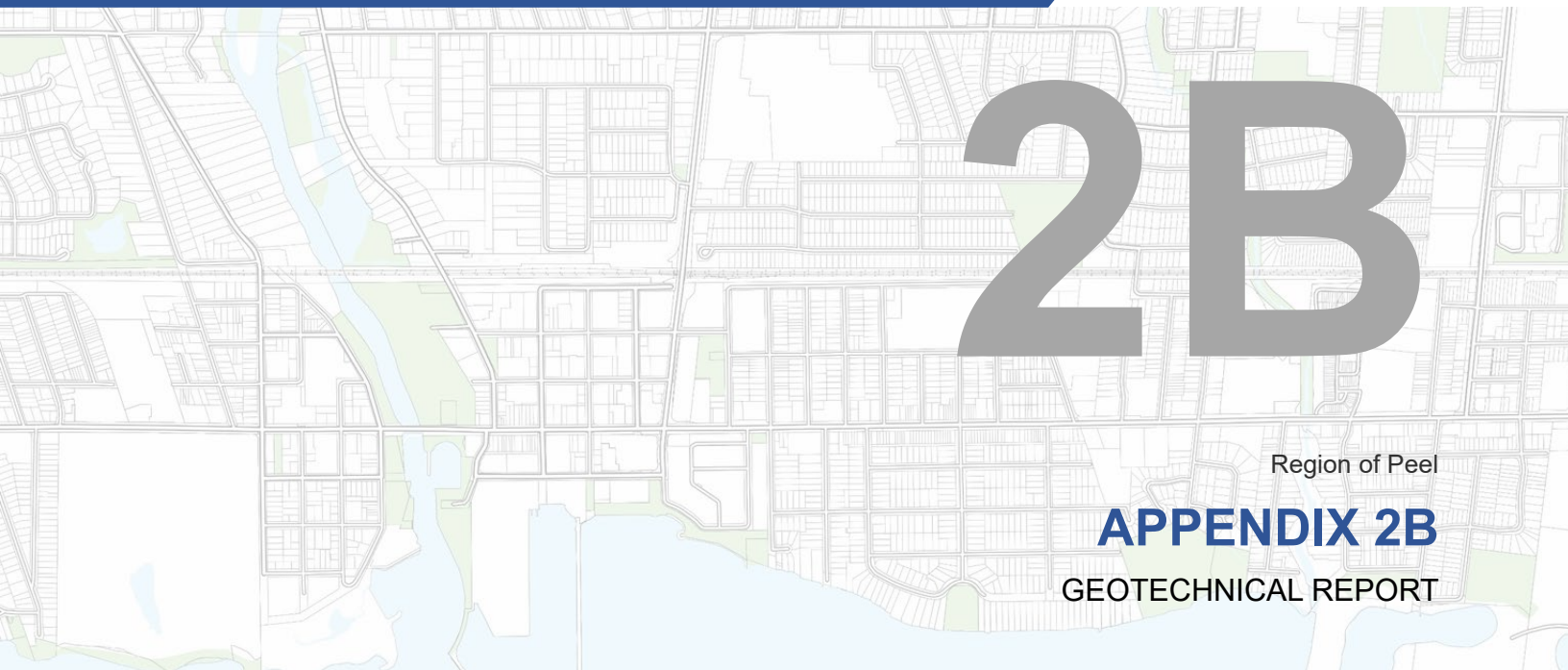
1 Endangered Species Act (ESA), 2007 (Current to 8 Sep 2023). Species at Risk in Ontario List, 2007 (O.Reg 230/08; current to 8 Sep 2023); Schedule 1 (Extirpated - EXP), Schedule 2 (Endangered - END), Schedule 3 (Threatened - THR), Schedule 4 (Special Concern - SC)

2 Species at Risk Act (SARA), 2002. Schedule 1 (Current to 8 Aug 2023); Part 1 (Extirpated), Part 2 (Endangered), Part 3 (Threatened), Part 4 (Special Concern)

3 Committee on the Status of Endangered Wildlife in Canada (COSEWIC) http://www.cosewic.gc.ca/

4 Provincial Ranks (SRANK) are Rarity Ranks assigned to a species or ecological communities, by the Natural Heritage Information Centre (NHIC). These ranks are not legal designations. SRANKS are evaluated by NHIC on a continual basis and updated lists produced annually. SX (Presumed Extirpated), SH (Possibly Extirpated - Historical), S1 (Critically Imperiled), S2 (Imperiled), S3 (Vulnerable), S4 (Apparently Secure), S5 (Secure), SNA (Not Applicable), S#S# (Range Rank), S? (Not ranked yet), SAB (Breeding Accident), SAN (Non-breeding Accident), SX (Apparently Extirpated).

wsp.com



2B

Region of Peel

APPENDIX 2B

GEOTECHNICAL REPORT

REPORT

Geotechnical Desktop Study Report

Port Credit East Water and Wastewater Servicing Optimization Strategy, Schedule 'C' Class Environmental Assessment

Submitted to:

GM BluePlan Engineering Limited

3300 Highway 7, Suite 402
Vaughan, Ontario L4K 4M3

Attn: Chris Campbell, MTP, MCIP, RPP, MRTPI
Infrastructure Planning, Partner

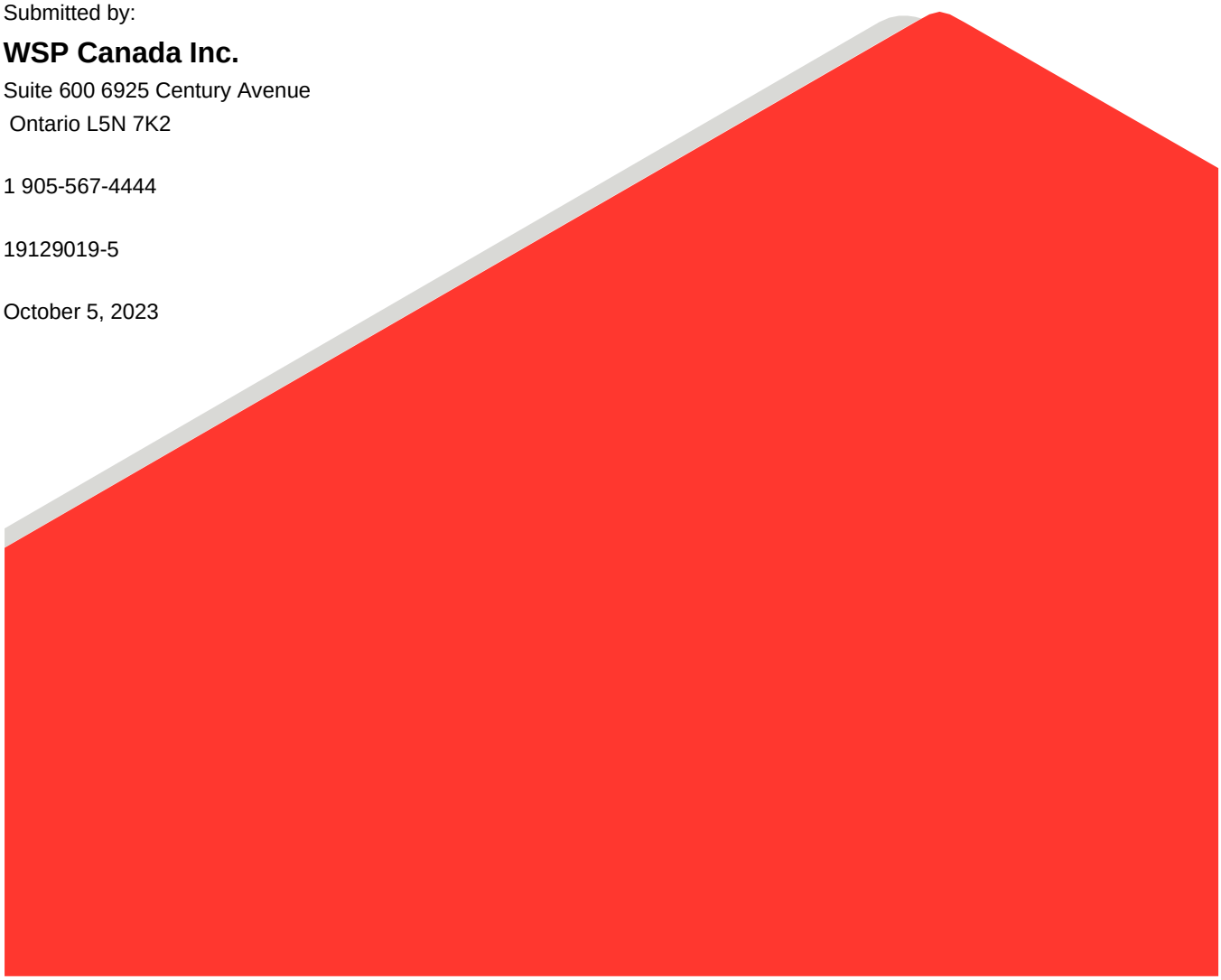
Submitted by:

WSP Canada Inc.
Suite 600 6925 Century Avenue
Ontario L5N 7K2

1 905-567-4444

19129019-5

October 5, 2023



Distribution List

1 e-copy - GM BluePlan Engineering Limited

1 e-copy - WSP Canada Inc.

Table of Contents

1.0 INTRODUCTION 1

2.0 SITE AND PROJECT DESCRIPTION 1

3.0 AVAILABLE INFORMATION 2

3.1 Previous Geotechnical Field Investigations 2

3.2 Water Well Records 4

4.0 SITE GEOLOGY AND SUBSURFACE CONDITIONS 4

4.1 Regional Geology 4

4.2 Anticipated Soil, Bedrock, and Groundwater Conditions 5

4.2.1 Lakeshore Road from Front Street to Stavebank Road (Credit River) 5

4.2.2 Lakeshore Road from Stavebank Road to Woodlawn Avenue 7

4.2.3 Rosemere Road to Vesta Drive 8

4.2.4 Hiawatha Parkway, Wanita Road, and Elmwood Avenue South 9

5.0 ANTICIPATED GEOTECHNICAL CHALLENGES AND MITIGATION MEASURES 9

6.0 RECOMMENDATION FOR FURTHER WORK FOR PRELIMINARY DESIGN 12

7.0 CLOSURE 13

TABLES

Table 1: Available Information 2

Table 2: Summary of Subsurface Conditions at Lakeshore Road and Credit River 6

Table 3: Summary of Subsurface Conditions at Lakeshore Road from Credit River to Woodlawn Avenue 7

Table 4: Summary of Subsurface Conditions at Port Credit Arena and CPR / Hurontario Street 8

Table 5: Geotechnical Challenges and Mitigation Measures – Open Cut Excavation 10

Table 6: Geotechnical Challenges and Mitigation Measures – Trenchless Installation 11

FIGURES

Figure 1: Study Area

Figure 2: Surface Geology

Figure 3: Groundwater Level Contours

Figure 4: Existing Borehole Location Plan

Figure 5: Air Photo Showing Original Shoreline of Credit River

Figure 6: Aerial Photo of Study Area, 1954

Figure 7: Aerial Photo of Study Area, 2020

APPENDICES

APPENDIX A
Important Information and Limitations of This Report

APPENDIX B
Existing Borehole Information

McCormick & Rankin Limited, Soil Design Report for Approaches to the Credit River Bridge in the Town of Port Credit, Lakeshore Road, dated February 1967. Geocres No. 30M11-158
Engineering Data Sheet for Boreholes 1 and 2
Engineering Data Sheet for Cone Test 3, 4, 5, 6 and 7

Golder Associates Ltd., Subsurface Investigation, Port Credit Arena, Mississauga, Ontario (Project No. 8411149), dated June 1984
Record of Boreholes 1, 2, 3, 4 and 5

Golder Associates Ltd., Geotechnical Investigation, Lakeshore Road Bridge, Crossing Credit River, Mississauga, Ontario (Project No. 86112631), dated October 1986
Record of Boreholes 1 and 2

Golder Associates Ltd., Supplementary Geotechnical Investigation, Lakeshore Rd Bridge Over Credit River, Port Credit, Ontario (Project No. 86112631), dated December 1986
Record of Boreholes 101 and 102

Golder Associates Ltd., Geotechnical Investigation, Proposed Forcemain, Port Credit, Ontario (Project No. 89113231), dated November 1991
Record of Boreholes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11

Golder Associates Ltd., Supplementary Geotechnical Investigation, Proposed Forcemain, Port Credit, Ontario (Project No. 89113232), dated June 1992
Record of Boreholes 101, 102, 103 and 104

Golder Associates Ltd., Preliminary Ground Investigation and Design Report, GO Transit-Metrolinx Crossing, Port Credit GO Station, Hurontario/Main Light Rail Transit (HMLRT), Mississauga, Ontario, dated August 2013
Record of Boreholes 13-PC1, 13-PC2, and 13-PC3, 150-2, 150-4, 153-10, 153-11, 153-13, 153-15, 155-3, 156-1, 156-2, 156-3 and 156-4
Record of Drillholes 13-PC1

4Transit, Parsons, Hatch, WSP, Regional Express Rail – Technical Advisory Services, Port Credit GO Station, Mississauga, Ontario, dated June 2018
Record of Boreholes PC-BH1, PC-BH3 and PC-BH4

Golder Associates Ltd., Draft Geotechnical Data Report (Rev. D), Front Street Station Wastewater Diversion Region of Peel Project 17-2415S, Lakeshore Road West, Mississauga, Ontario, dated June 14, 2019
Record of Boreholes 1, 1-2, 1-3 and 35
Record of Drillholes 1 and 35

Golder Associates Ltd., Geotechnical and Hydrogeological Investigations for Lakeshore Road West, Mississauga, Ontario Region of Peel Projects 19-2215 and 19-1120 dated August 15, 2022 [DRAFT RECORD OF BOREHOLES / DRILLHOLES AVAILABLE ONLY)
Record of Boreholes BH21-45 to BH21-59
Record of Drillholes BH21-45 to BH21-59

1.0 INTRODUCTION

WSP Canada Inc. (WSP) has been retained by GM BluePlan Engineering Limited (GMBP) on behalf of the Region of Peel (the Region) to conduct a geotechnical desktop study as part of the Schedule 'C' Municipal Class Environmental Assessment for the Port Credit East Water and Wastewater Servicing Optimization Strategy (the Project) in the City of Mississauga, Region of Peel, Ontario. The purpose of the Project is to investigate alternative water and wastewater strategies for the Rosemere, Hiawatha, and Elmwood sewage pumping station (SPS) servicing areas, investigate alternative routes for the future/new Lakeshore Sub-transmission watermain east of the Credit River, and to develop an integrated servicing strategy that supports existing servicing needs and projected growth.

The purpose of this report is to present the results of the geotechnical desktop study. This report was prepared for the exclusive use by GMBP, the Region, and their design team and is intended to be used for planning and preliminary design purposes only. Any use that a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of the third party. The report is based solely on the review of historical and publicly available information and data obtained by WSP as described in this report. Additional site-specific explorations of the subsurface conditions must be carried out prior to any further design activities.

The scope of work for this assignment, as outlined in our proposal (CX19129019) dated September 11, 2019, for this project, includes review of available information to summarize the existing subsurface soil and groundwater conditions and identify areas where additional geotechnical investigation and information is required to support the design.

The factual data, interpretations, and recommendations contained in this report pertain to a specific project as described in the report and are not applicable to any other project or site location. In addition, this report should be read in conjunction with the "Important Information and Limitations of This Report" contained in Appendix A of this report. The reader's attention is specifically drawn to this information, as it is essential for the proper use and interpretation of this report.

2.0 SITE AND PROJECT DESCRIPTION

The Study Area is shown on Figure 1 and is generally limited by the Credit River in the south, Veronica Drive and just east of Forest Avenue in the west, just south of Seneca Drive in the north, and Lake Ontario in the east in the City of Mississauga.

It is understood the following conceptual design is being considered as part of the Preliminary Preferred Strategy:

1) New Lakeshore Road Trunk Sewer – trenchless installation from a compound at Marina Park from the west to a compound to the west at the municipal parking lot at Elmwood Avenue North and Lakeshore Road East;

2) New Lakeshore Road Sub-Transmission Watermain – trenchless installation from a separate compound at Marina Park from the west to a compound to the west at the municipal parking lot at Elmwood Avenue North and Lakeshore Road East;

3) Rosemere Sewage Pumping Station (SPS) – replacing the existing SPS at Rosemere Road and associated twin forcemains East to Vesta Drive; and

4) Elmwood and Hiawatha Sewage Pumping Stations – Decommission both SPSs located in Tall Oaks Park and Hiawatha Park, respectively, and connect to Lakeshore Road Trunk Sewer. Connection will be made via a proposed gravity sewer along Hiawatha Parkway, Wanita Road, and Elmwood Avenue South.

Both the Lakeshore Road Trunk Sewer and Sub-Transmission Watermains require crossing of the Credit River.

3.0 AVAILABLE INFORMATION

This geotechnical desktop study is based on available subsurface information obtained from the following sources:

- Golder Associates Ltd. hard copy and digital libraries;
- Region of Peel records;
- Ministry of Transportation Foundation Library service (i.e., Geocres database);
- Oak Ridge Moraine Groundwater Program database (i.e., YPDT – CAMC database);
- Water Well Information System (WWIS), Ontario Ministry of Environment, Conservation and Parks (MECP), Queens Printer 2019; and
- Chapman, L.J., and Putnam, D.F., 2007, *"The Physiography of Southern Ontario"*; Ontario Geological Survey.

3.1 Previous Geotechnical Field Investigations

The anticipated soil, bedrock, and groundwater conditions described below are in part based off geotechnical data obtained from previous field investigations carried out within the Study Area, see Table 1 below. The relevant records of the boreholes, drillholes and/or in-situ testing from these investigations are provided in Appendix B and on the Existing Borehole Location Plan on Figure 4. Although the northings and eastings of the previous investigation boreholes were generally surveyed, it should be noted that the points are referenced to differing spatial reference systems, and as such, the borehole locations shown on Figure 4 should be considered approximate.

Table 1: Available Information

Location	Report Title	Date	Boreholes	In-situ Testing Locations
Lakeshore Road E (old Highway 2) & Credit River	McCormick & Rankin Limited, Soil Design Report for Approaches to the Credit River Bridge in the Town of Port Credit, Lakeshore Road (Geocres No. 30M11-158)	1967	1 and 2	CPT 3, 4, 5, 6 and 7
40 Stavebank Road	Subsurface Investigation, Port Credit Arena, Mississauga, Ontario	1984	1, 2, 3, 4, and 5	N/A
Lakeshore Road E & Credit River	Geotechnical Investigation, Lakeshore Road Bridge, Crossing Credit River, Mississauga, Ontario	1986-1	1 and 2	N/A
Lakeshore Road E & Credit River	Supplementary Geotechnical Investigation, Lakeshore Rd Bridge Over Credit River, Port Credit, Ontario	1986-2	101, 102	N/A

Location	Report Title	Date	Boreholes	In-situ Testing Locations
Lakeshore Road E - Credit River to Elmwood Ave N	Geotechnical Investigation Proposed Forcemain, Port Credit, Ontario	1991-1	1 to 11	N/A
Lakeshore Road E - Hurontario to Elmwood Ave N	Supplementary Geotechnical Investigation, Proposed Forcemain, Port Credit, Ontario	1991-2	101 to 104	N/A
Hurontario Street and Canadian National Railway (CNR)	Preliminary Ground Investigation and Design Report, GO Transit-Metrolinx Crossing, Port Credit GO Station, Hurontario/Main Light Rail Transit (HMLRT), Mississauga, Ontario	2013	13-PC1 to 13-PC3, 150-2 and 150-4, 153-10 and 153-11, 153-13 and 153-15, 155-3, 156-1 to 156-4 [1]	N/A
Port Credit GO Station	4Transit, Parsons, Hatch, WSP, Regional Express Rail – Technical Advisory Services, Port Credit GO Station, Mississauga, Ontario	2018	PC-BH01 PC-BH03 PC-BH03-PQ PC-BH04	N/A
Lakeshore Road E & Credit River	Draft Geotechnical Data Report (Rev. D), Front Street Station Wastewater Diversion Region of Peel Project 17-2415S, Lakeshore Road West, Mississauga, Ontario	2019	BH1, BH1-2, BH1-3 and BH35	N/A
Lakeshore Road E - Credit River to Woodlawn Ave	Geotechnical and Hydrogeological Investigations for Lakeshore Road West, Mississauga, Ontario Region of Peel Projects 19-2215 and 19-1120 [2]	2022	BH21-45 to BH21-59	N/A

Note(s):

1. Boreholes 13-PC1, 13-PC2 and 13-PC3 were advanced as part of the 2015 investigation noted. The other boreholes included in this report are sourced from various Geocres reports detailing field investigations from 1959, 1960, and 1960 (i.e., MTO GEOCRES No. 30M11-150, 30M11-153, 30M11-155 and 30M11-156).
2. Only the Record of Borehole & Drillhole sheets from this project have been published. Reporting for this project has not yet been completed.

In reviewing the available historical reports, WSP has relied in good faith on information obtained by others as referenced above. We assume the information is factual and accurate and accept no responsibility for any deficiency, misstatements or inaccuracies contained in this report as a result of omissions, misinterpretations or fraudulent acts of others.

The available information from previous geotechnical field investigations is concentrated at the following locations within the Study Area:

- Lakeshore Road bridge over the Credit River;
- Lakeshore Road between the Credit River and Woodlawn Avenue;
- Port Credit Arena (40 Stavebank Road); and
- Canadian Pacific Railway bridge over Hurontario Street & Port Credit GO Station.

Most of the existing borehole information is along Lakeshore Road and closest to the proposed locations of Items 1 and 2 of the Preliminary Preferred Strategy (i.e., the new Lakeshore Road Trunk Sewer and new Lakeshore Road Sub-Transmission Watermain). The existing borehole information at the Port Credit Arena and at the Canadian Pacific Railway bridge over Hurontario Street is located closest to Item 3 and is greater than 100 m away from the new SPS at Rosemere Road and twin forcemains. No previous geotechnical field investigations were reviewed in the vicinity of Item 4, the Elmwood and Hiawatha Sewage Pumping Stations and associated connections along Hiawatha Parkway, Wanita Road, and Elmwood Avenue South to Lakeshore Road Trunk Sewer.

3.2 Water Well Records

In addition, the locations of the water well records from the Water Well Information System (WWIS), Ontario Ministry of Environment, Conservation and Parks (MECP) are shown on Figure 4. Water well records were reviewed in the vicinity of the following proposed infrastructure where there is limited geotechnical information available from previous investigations:

- Rosemere Sewage Pumping Station (SPS) and twin forcemains east to Vesta Drive; and
- Elmwood and Hiawatha Sewage Pumping Stations at Tall Oaks Park and Hiawatha Park, respectively, proposed gravity sewer connections along Hiawatha Parkway, Wanita Road, and Elmwood Avenue South.

Eight water well records were located between the Rosemere SPS and Vesta Drive, and only two water well records were available at the Elmwood and Hiawatha SPSs. No water well records were recorded along Hiawatha Parkway, Wanita Road, and Elmwood Avenue South.

In reviewing the available water well records, WSP has relied in good faith on information obtained by others. We assume the information is factual and accurate and accept no responsibility for any deficiency, misstatements, or inaccuracies contained in this report as a result of omissions, misinterpretations, or fraudulent acts of others. It should be noted that water well records include limited geotechnical data and are not reviewed by a geotechnical engineer. Geotechnical laboratory testing and standard penetration testing (SPT) are not recorded on water well records and as such, the subsurface conditions described by well technicians is not supported by this data. Water well records should not be relied upon for preliminary or detail design of the proposed infrastructure and additional geotechnical investigation should be carried out within the Study Area (see Section 6.0).

4.0 SITE GEOLOGY AND SUBSURFACE CONDITIONS

4.1 Regional Geology

The project area is located within the Iroquois Plain Physiographic Region, as delineated in The Physiography of Southern Ontario[1] (Chapman and Putman 2007). The glacial Iroquois plain stretches along the northern shoreline of Lake Ontario, extending from the Niagara Escarpment in the west to the Scarborough Bluffs in the east. The Iroquois Plain soils consist of glaciolacustrine sediments deposited in former Lake Iroquois, primarily sands, silts and gravels, with a shallow cover of till remaining over the shale bedrock.

The Surface Geology maps shown on Figure 2 indicate that the surficial soil at the site is composed of a coarse textured glaciolacustrine deposit consisting of sands, gravel, minor silt and clay (9C - Foreshore and Baseline Deposit). The map indicates that modern alluvial deposits (19 - Modern Alluvial Deposit) is located along the

[1] Chapman, L.J. and Putnam, D.F. 2007. *Physiography of southern Ontario*; Ontario Geological Survey, Miscellaneous Release--Data 228.

watercourses and associated tributaries. A Till deposit (8B – Interbedded Flow Till, Rainout Deposits and Silt and Clay) is located towards the east end of the Project area. Figure 3 shows the groundwater level contours in the Study Area.

It is understood that a natural marsh at the mouth of the Credit River has been filled over time. Based on previous reporting by Golder in 1991, it is understood that part of the infilled area at the river mouth was historically used as a garbage dump. An air photo from August 1939 showing the original shoreline of the Credit River is shown in Figure 5, and aerial photos of the Study Area from 1954 and 2020 are shown in Figures 6 and 7.

The Georgian Bay Formation that underlies the overburden within the Study Area consists mainly of grey shale, containing siltstone, sandstone and limestone interbeds. Outcrops of the formation are commonly found along water courses on the west side of Toronto and in Mississauga, notably the Humber River, Mimico Creek, Etobicoke Creek, and Credit River Valleys.

4.2 Anticipated Soil, Bedrock, and Groundwater Conditions

In general, the soil conditions at the site are anticipated to consist of varying amounts of fill materials, silt to sand to gravel deposits, underlain and interlayered by silty clay-clayey silt to silty clay deposits, underlain by glacial till deposits, and further underlain by residual soil. The glacial till deposits are generally anticipated to be comprised of gravelly, silty sand and/or sandy, gravelly silty clay containing cobbles and boulders. Near the Credit River, the till deposits thin and organic silt and/or peat deposits are anticipated, along with thicker deposits of silt to sand to gravel.

The overburden is underlain by shale bedrock of the Georgian Bay Formation. In the previous investigations reviewed, the bedrock surface was encountered between 4.2 m and 17.2 m below ground surface (Elevation 60.5 m and 75.6 m) along Lakeshore Road (i.e., near the location of the proposed Lakeshore Road Trunk Sewer and Sub-Transmission Watermain) and between 5.5 m and 10.7 m below ground surface (Elevation 73.9 m and 78.9 m) north of Lakeshore Road near the Canadian Pacific Railway (i.e., near the location of the proposed Rosemere SPS and associated works).

No existing geotechnical field investigations were reviewed near the Elmwood and Hiawatha SPSs, nor near the associated proposed gravity sewer connection along Hiawatha Parkway, Wanita Road, and Elmwood Avenue South. In general, there is limited information available regarding the subsurface conditions south of Lakeshore Road East within the Study Area. A review of water well records in the Study Area shows that only two well records are available in the Study Area near Item 4 of the Preliminary Preferred Strategy. An approximately 9.1 m deep well at Hiawatha Park near the existing SPS (Well Tag No. A202716) installed in 2017 and an approximately 3 m deep well on Carlis Place near Tall Oaks park and the existing Elmwood SPS (Well Tag No. A315035) installed in 2021. No water well records are shown along Hiawatha Parkway, Wanita Road, and Elmwood Avenue South within the area relevant to Item 4.

4.2.1 Lakeshore Road from Front Street to Stavebank Road (Credit River)

As summarized in Table 2, previous geotechnical investigations at the Lakeshore Road from Front Street to Stavebank Road, generally for the bridge over the Credit River, were carried out by McCormick & Rankin Ltd in 1967 and Golder in 1986, 2019, and 2022. Based on the subsurface conditions encountered in boreholes advanced for the previous investigations, the overburden consists generally of non-cohesive fill layers, underlain by a silt to sand to silty gravel deposit, underlain by an organic silt deposit with peat layers, underlain by a silty clay to silty clay-clayey silt deposit that contains organics in some areas, underlain by a silt to sand to gravel

deposit and further underlain by cohesive till deposit in some areas. In some areas, wood fragments and other organic material were encountered in the lower silt to sand deposit and a residual soil deposit was encountered overlying the shale bedrock.

The overburden is underlain by shale bedrock of the Georgian Bay Formation. Bedrock coring was carried out in the McCormick & Rankin Ltd, 1967, and both the Golder, 2019 and Golder, 2022 investigations for lengths ranging between 3.7 m and 26.7 m. The bedrock surface was encountered between 5.5 m and 17.2 m below ground surface (Elevation 60.5 m and 71.9 m). The cored bedrock is described as highly weathered to fresh, thinly laminated to medium bedded, dark grey to grey, fine grained, non to faintly porous, weak to medium strong shale with medium strong to strong interbeds of limestone and siltstone of the Georgian Bay Formation. The Unconfined Compressive Strength (UCS) of the shale bedrock was measured in the Golder, 2019 and Golder, 2022 investigations and ranges from 12.4 MPa to 20.6 MPa.

The boreholes were generally advanced from the river's banks; however, three cone penetration tests (CPT) were carried out in the McCormick & Rankin Limited, 1967 investigation through the river bed south of the existing bridge location at that time. The CPT were pushed from the river bed to refusal between 5.8 m and 7.3 m below the river bed. The tip resistance measured is generally less than 2.4 kPa until the test reaches refusal.

Table 2: Summary of Subsurface Conditions at Lakeshore Road and Credit River

Report	Boreholes	Comments on Existing Information	Overburden	Bedrock Surface[1]
McCormick & Rankin Limited, 1967	1 and 2 (and CPT 3, 4, 5, 6 and 7)	Boreholes advanced to 13.4 m and refusal at 17.1 m CPT advanced to refusal between 11.6 m to 12.8 m	Non-cohesive fill Organic silt Sand and gravel	13 m below ground surface (cored)
Golder, 1986-1	1 and 2	Boreholes advanced to auger refusal on inferred bedrock at 15.9 m and 16.0 m	Non-cohesive fill Silty sand to sandy silt Organic silt Silty sand to sand Cohesive Till	Elev. 62.7 m and 62.6 m (inferred, no core)
Golder, 1986-2	101, 102	Boreholes advanced to 9.6 m and 10.4 m	Non-cohesive fill Silty sand to sand Organic silt Sand	N/A
Golder, 1991-1	1 and 11	Boreholes advanced to 8.1 m and 9.6 m	Non-cohesive fill Sand Silt to Sand, contains organics Fibrous peat Cohesive till	N/A
Golder, 2019	BH1, BH1-2, BH1-3 and BH35	Boreholes advanced to between 6.7 m and 13.6 m Rock coring carried out in BH1 and BH35	Cohesive / Non-cohesive fill Silt and Sand, contains organics Silty clay, contains organics Cohesive till	Elev. 70.2 m and 71.9 m (cored)

Report	Boreholes	Comments on Existing Information	Overburden	Bedrock Surface[1]
Golder, 2022	BH21-45 to BH21-52, BH21-60 and BH21-62	Boreholes advanced to between 30.3 m and 34.1 m Rock coring carried out in all boreholes	Non-cohesive fill Silty Sand to Silty Gravel Silt to Organic Silt Silty clay-clayey silt to Silty Clay, contains organics Silty Sand to Gravel Residual Soil	Elev. 60.5 m to 70.5 m (cored)

Note(s):

1. Northings, eastings and ground surface elevations of the previous investigation boreholes were generally surveyed and referenced to a local benchmark. However, it should be noted that the elevations are referenced to differing geodetic datums and as such, the bedrock surface elevations summarized above should be considered approximate.

4.2.2 Lakeshore Road from Stavebank Road to Woodlawn Avenue

As summarized in Table 3, previous geotechnical investigations along Lakeshore Road from Stavebank Road to Woodlawn Avenue were carried out by Golder in 1991 and 2022. Based on the subsurface conditions encountered in boreholes advanced for the previous investigations, the overburden generally consists of non-cohesive and cohesive fill layers, underlain by interlayered silty clay and silt to sand deposits, and further underlain by a cohesive till grading to non-cohesive till with depth. In some areas, a residual soil deposit was encountered overlying the shale bedrock.

The overburden is underlain by shale bedrock of the Georgian Bay Formation. Bedrock coring was carried out in both the Golder, 1991 (2) and Golder, 2022 investigations for lengths ranging between 1.2 m and 28.6 m. The bedrock surface was encountered between 4.2 m and 13.9 m below ground surface (Elevation 66.2 m and 75.6 m). The cored bedrock is described as completely weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak shale with medium strong to strong interbeds of limestone and siltstone of the Georgian Bay Formation. The Unconfined Compressive Strength (UCS) of the shale bedrock was measured in the Golder, 2019 and Golder, 2022 investigations and ranges from 17.3 to 26.6 MPa and on the limestone / siltstone layers is 169.2 MPa.

Table 3: Summary of Subsurface Conditions at Lakeshore Road from Credit River to Woodlawn Avenue

Report	Boreholes	Comments on Existing Information	Overburden	Bedrock Surface[1]
Golder, 1991-1	2 to 10	Boreholes advanced to between at 6.1 m and 9.6 m	Non-cohesive / Cohesive fill Silty Sand to Sand Silt to Clayey Silt Cohesive till Silty Clay Non-cohesive till	Elev. 72.0 m and 75.6 m (inferred, no core)
Golder, 1991-2	101 to 104	Boreholes advanced to between 6.0 m and 6.6 m	Cohesive till Silty Clay Non-cohesive till	Elev. 74.6 m to 75.0 m (inferred, no core)

Report	Boreholes	Comments on Existing Information	Overburden	Bedrock Surface[1]
Golder, 2022	BH21-53 to BH21-59, BH21-63 and BH21-64	Boreholes advanced to between 9.5 m and 36.2 m Rock coring carried out in all boreholes except BH21-63	Non-cohesive / Cohesive fill Silt to Sand to Gravel Silty Clay-Clayey Silt to Silty Clay Gravelly Silty Sand to Sand Cohesive till Residual Soil	Elev. 60.5 m to 75.7 m (cored)

Note(s):

1. Northings, eastings and ground surface elevations of the previous investigation boreholes were generally surveyed and referenced to a local benchmark. However, it should be noted that the elevations are referenced to differing geodetic datums and as such, the bedrock surface elevations summarized above should be considered approximate.

4.2.3 Rosemere Road to Vesta Drive

As summarized in Table 4, previous geotechnical investigations were carried out North of Lakeshore Road at the Port Credit Arena, Hurontario Street and CNR bridge and the Port Credit GO Station by Golder in 1984 and 2013, and 4Transit in 2017, respectively. Based on the subsurface conditions encountered in boreholes advanced for the previous investigations, the overburden consists of non-cohesive fill layers, underlain by a silt to sand deposit, underlain by a sandy silt to silty clay deposit, and further underlain by a cohesive till that contains cobbles, shale and limestone fragments. Limestone gravel, boulders and slabs were encountered the cohesive deposits above bedrock in the Golder, 2013 investigation.

The overburden is underlain by shale bedrock of the Georgian Bay Formation. Bedrock coring was carried out in the Golder, 2013 and 4Transit, 2018 investigations for lengths ranging between 0.6 m and 7.7 m. The bedrock surface was encountered between 5.5 m and 10.7 m below ground surface (Elevation 73.4 m and 78.9 m). The cored bedrock is described as hard, grey shale and limestone in the Golder, 2013 investigation and slightly weathered to fresh, thinly laminated to medium bedded, grey, very weak to medium strong shale, interbedded with slightly weathered to fresh, light grey, thinly laminated to thinly bedded, medium strong to very strong siltstone and limestone layers of the Georgian Bay Formation.

Table 4: Summary of Subsurface Conditions at Port Credit Arena and CPR / Hurontario Street

Report	Boreholes	Comments on Existing Information	Overburden	Bedrock Surface[1]
Golder, 1984	1 to 5	Boreholes advanced to between at 12 m and 26.5 m	Non-cohesive fill Silt to Silty Sand Cohesive till	N/A
Golder, 2013	13-PC1 to 13-PC3, 150-2 and 150-4, 153-10 and 153-11, 153-13 and 153-15, 155-3, 156-1 to 156-4	Boreholes advanced to between 2.1 m and 12.2 m	Non-cohesive fill Sand Sandy Silt to Silty Clay Cohesive till	Elev. 73.9 m to 78.9 m (cored) and Elev. 78.1 m (inferred, no core)

Report	Boreholes	Comments on Existing Information	Overburden	Bedrock Surface[1]
4Transit, 2018	PC-BH01 PC-BH03 PC-BH03-PQ PC-BH04	Boreholes advanced to between 5.2 m and 15.2 m.PC-BH03-PQ advanced through PQ sized soil coring. Rock coring carried out in Borehole PC-BH01 and PC-BH03.	Non-cohesive fill Silt Cohesive till, contains cobbles and shale & limestone fragments	Elev. 76.2 m and 73.4 m (cored)

Note(s):

1. Northings, eastings and ground surface elevations of the previous investigation boreholes were generally surveyed and referenced to a local benchmark. However, it should be noted that the elevations are referenced to differing geodetic datums and as such, the bedrock surface elevations summarized above should be considered approximate.

It should be noted that the previous investigations by Golder described above were carried out over 100 m away from the Rosemere SPS and proposed twin forcemains that extend to Vesta Drive. In addition to the previous investigations, one water well record was located on Rosemere Road. The stratigraphy in the water well record from Rosemere Road (Well I.D. 7287343) is described by the well technician as 1.1 m of brown sand fill, underlain by 2 m of soft, brown silty clay, further underlain by 3 m of dense, grey silty clay.

4.2.4 Hiawatha Parkway, Wanita Road, and Elmwood Avenue South

A review of water well records in the Study Area shows that only two well records are available in the Study Area near Item 4 of the Preliminary Preferred Strategy. An approximately 9.1 m deep well at Hiawatha Park near the existing SPS (Well Tag No. A202716) installed in 2017 and an approximately 3 m deep well on Carlis Place near Tall Oaks Park and the existing Elmwood SPS (Well Tag No. A315035) installed in 2021. No water well records are shown along Hiawatha Parkway, Wanita Road, and Elmwood Avenue South within the area relevant to Item 4.

The stratigraphy in the Hiawatha Park well is described by the well technician as 1.5 m of brown sand (potentially fill), underlain by 3 m of grey silty clay containing gravel, further underlain by 4.6 m of dense, brown silt and sand grading to sand with depth. The stratigraphy in Carlis Place well is described by the well technician as 3 m of brown, loose till.

5.0 ANTICIPATED GEOTECHNICAL CHALLENGES AND MITIGATION MEASURES

The tables below outline the conceptual geotechnical challenges, potential impacts on construction, and suggested mitigation measures to minimize subsurface risks during construction of the Rosemere SPS and associated twinned forcemains, the Trunk Sewer and Sub-Transmission Watermain on Lakeshore Road, decommissioning of the existing Elmwood and Hiawatha SPS, and all associated gravity sewers. Table 5 summarizes the geotechnical challenges and mitigation measures associated with open-cut excavations which may be considered for utility installation and SPS construction. Table 6 summarizes the geotechnical challenges and mitigation measures associated with trenchless installations which we understand is being considered for the new Lakeshore Road Trunk Sewer and Sub-transmission Watermain.

Table 5: Geotechnical Challenges and Mitigation Measures – Open Cut Excavation

Geotechnical Challenge	Description	Mitigation Measures
Perched Groundwater in Fill Layers	Excavations will likely extend through fill layers that may contain perched groundwater.	Groundwater conditions should be monitored and controlled during trench excavation in all sections to protect the integrity of the trench base and maintain dry working conditions. A working concrete slab may also be considered in sensitive soils.
Water-Bearing Granular Zones / Groundwater Control	Excavations may extend below the groundwater level in the water-bearing granular soil zones (i.e., silt to sand to gravel) present within the overburden.	Design of open-cut excavations for pumping stations and trenched excavations should incorporate groundwater control to minimize the impact of dewatering on the watercourses, surrounding infrastructure and other sensitive features. SPS may need to be designed to resist hydrostatic uplift pressures (ex. anchoring, thickening of base slab).
Weak Cohesive Soils / Base Stability	Weak cohesive soils are considered unsuitable founding soils, and when present near the base of the excavation can lead to base heave. If a water-bearing permeable deposit is present below the relatively impermeable cohesive soils, basal uplift is a risk.	Proposed utility inverts and founding elevations for the SPSs should be reviewed once additional borehole information is collected along the alignments to determine the anticipated soil stratigraphy of the founding soils. Sub-excavation and replacement of founding soils, thickening of utility bedding, and/or design modification to may be considered.
Organic Deposits	Organic deposits encountered at the Credit River and along Lakeshore Road near the Credit River are considered unsuitable founding soils.	Sub-excavation and replacement of the organic deposits and thickening / reinforcing of the utility bedding beneath the utility inverts may be considered to reduce post-construction settlement.
Fine-grained Soils with Corrosion Potential	Some soils have the potential to corrode steel and concrete over time, especially fine-grained soils such as the silts and silty clays described in Section 4.2.	Analyse soil samples for parameters that contribute to corrosion potential (i.e., pH, soluble sulphate, chlorides, electrical conductivity and resistivity). Design utility installations according to corrosion potential.
Presence of Cobbles and Boulders in Glacial Till	It should be assumed that cobbles/boulders are present in the overburden and are comprised of a variety of different lithology's including native bedrock but also glacial erratics from the Canadian Shield with a wide range in strengths.	Excavating equipment with ground loosening tools such as a rock bucket, hoe ram and picks and chisels may be considered. Contract Documents should include provisions to manage the excavation and disposal of cobbles and boulders.
Shallow Bedrock	Open-cut excavations for pumping stations and utility trenches may extend into hard residual soil and / or weathered bedrock. The bedrock surface was encountered as high as Elevation 78.9 m (approximately 4 to 5 m below ground surface).	Use of hydraulic excavators equipped with rock teeth and supplemented with equipment such as road-headers or hydraulic rock breakers ("hoe-ram") may be considered.

Geotechnical Challenge	Description	Mitigation Measures
Credit River Crossing	If open cut excavation is considered for the proposed watermain, river flow will have to be temporarily disrupted.	Open cut excavation will require a cofferdam to divert the creek to construct the utility in conditions suitable to implement the work and to provide for required inspection of the founding soils before placing pipe bedding, etc. The design should be reviewed by the conservation authorities to ensure it doesn't pose risks to the river and surrounding natural environment.
	Soil cover thickness above the proposed watermain obverts will have to be reviewed to reduce the risk of erosion and scour.	The design of the proposed watermain should ensure that the utility will have adequate soil cover or erosion and scour protection.

Table 6: Geotechnical Challenges and Mitigation Measures – Trenchless Installation

Geotechnical Challenge	Description	Mitigation Measures
Water-Bearing Granular Zones/Groundwater Control	Trenchless installations will likely be proposed below the groundwater level, and may extend through the water-bearing granular soil zones (i.e., silt to sand to gravel) present within the overburden. Active dewatering may be required to control groundwater.	Detailed design of the compounds and tunnel should incorporate groundwater control methods to minimize the impact of dewatering on the watercourses, surrounding infrastructure and sensitive features (ex. circular secant pile wall).
Presence of Cobbles and Boulders	It should be assumed that cobbles/boulders are present in the overburden and are comprised of a variety of different lithology's including native bedrock but also glacial erratics from the Canadian Shield with a wide range in strengths.	The presence of cobbles and/or boulders should be considered in machine selection and adopted tunnelling method through overburden, if trenchless installation is considered. Contract Documents should include provisions to manage the excavation and disposal of cobbles and boulders.
Mixed-Face and Overburden Tunnelling	A trenchless installation may encounter overburden and mixed-face conditions as such hybrid / dual mode tunnel boring machine (rock TBM with slurry or EPB capability) should be considered.	Geotechnical Baseline Report to define the overburden/bedrock interface and alert the contractor about the risks associated with the mixed face conditions and tunnelling through soils.
In-situ Stresses and Swelling of Shale Bedrock	Shale bedrock may experience swelling when stresses are relieved due to excavation or tunnelling. The swelling and in situ stresses in the shale bedrock may impact the temporary and permanent tunnel and shaft liner design.	Tunnel Designers should consider in situ stresses and the potential for swelling in the liner design, if trenchless installation is considered.
Naturally occurring BTEX and Subsurface Gases	Naturally occurring benzene, toluene, ethylbenzene, and xylenes (collectively BTEX) and other naturally occurring subsurface gases (methane, hydrogen sulphide and carbon dioxide) have been encountered within shale bedrock and/or glacially derived till deposits. Subsurface gases can impact tunnel boring machine selection, ventilation design, tunnel spoil management and disposal options.	Tunnel spoil disposal options and worker health and safety requirements should be developed during the detailed design and incorporated into the Contract Documents.

Geotechnical Challenge	Description	Mitigation Measures
Credit River Crossing	Limited soil or bedrock cover above the tunnel obvert.	Trenchless installation may require additional intervention measures (such as pressurized face tunnel boring machine, grouting etc.) to increase the stability of the excavation and reduce the risk of frac-out at the Credit River. The additional intervention measures should be reviewed by the conservation authorities to ensure they do not pose risks to the Creek and the natural environment.

6.0 RECOMMENDATION FOR FURTHER WORK FOR PRELIMINARY DESIGN

Additional geotechnical investigation is recommended to further characterize the overburden, bedrock, and groundwater conditions at the locations of Items 3 and 4 of the Preliminary Preferred Strategy, and at the proposed compound in the municipal parking lot at the northeast corner of Lakeshore Road and Elmwood Drive. Limited existing geotechnical field investigations were reviewed in the vicinity of the Rosemere SPS and the associated twin forcemains extending east to Vesta Drive (i.e., Item 3). The two investigations by Golder in 1984 and 2013 that were reviewed and described in Section 4.2.3 are located greater than 100 m away. No existing geotechnical field investigations were reviewed that were located south of Lakeshore Road near the Elmwood and Hiawatha SPSs nor the associated proposed gravity sewer connections along Hiawatha Parkway, Wanita Road, and Elmwood Avenue South (i.e., Item 4). Boreholes were advanced near the eastern compound for Items 1 and 2 along Lakeshore Road as part of the Golder, 2022 investigation, however, they are located along Lakeshore Road and not at the site of the proposed compound (parking lot). Additional boreholes and in-situ testing, including but not limited to Pressuremeter testing, should be carried out within the parking lot to minimize subsurface risks during construction.

Additional geotechnical investigation should be designed to fill in subsurface information data gaps and to minimize risk of unforeseen ground conditions during construction. Future investigations can characterize the overburden, bedrock and groundwater conditions through the following methods:

- Advance boreholes and collection soil samples to identify the depth, composition and strength/stiffness of fill layers and native soils deposits;
- Provide soil parameters for trenchless and/or temporary excavation support design for the existing subsurface soils through in-situ testing (i.e., Standard Penetration Test (SPT), field shear vanes, pressuremeter testing, etc.), laboratory testing and geotechnical analysis;
- Delineate the bedrock surface and the thickness of completely to moderately weathered bedrock rock using SPT boreholes, PQ Soil Core boreholes, drillholes using the “triple-tube” bedrock coring method, and/or geophysical survey;
- Install monitoring wells (i.e., standpipe piezometers or vibrating wire piezometers) in boreholes and measure representative groundwater levels of all seasons through discontinuous, manual readings or using continuous data loggers;

- Identify potentially elevated groundwater levels or pressurized aquifers that may be associated with the Credit River and/or buried river valleys;
- In-situ testing of water-bearing soil zones to assess the need for groundwater control and support of excavation options (i.e., packer testing, rising / falling head testing); and
- Assess environmental quality of soil and groundwater for handling, re-use and disposal through analytical laboratory testing and environmental analysis.

7.0 CLOSURE

We trust that this desktop study report meets your current planning and conceptual design requirements. If you have any questions regarding the contents of this report, please do not hesitate to contact this office.

Signature Page

WSP Canada Inc.

Darcy Hansen, PEng
Geotechnical Engineer

Dave Walters, PhD, PEng
Senior Principal Geotechnical Engineer

DH/DW/wlw

https://golderassociates.sharepoint.com/sites/114195/project files/6 deliverables/5 - geotechnical desktop/4- updated final report_october 2023/19129019_r_wm_desktop_study_05oct2023_gmbp.vr.docx

REFERENCES

4Transit, Parsons, Hatch, WSP, Regional Express Rail – Technical Advisory Services, Port Credit GO Station, Mississauga, Ontario, dated June 2018

Chapman, L. J. and Putnam, D. F., 1984. The Physiography of Southern Ontario; Ontario Geological Society, Special Volume 2, Third Edition. Accompanied by Map p. 2715, Scale 1:600,000.

Golder Associates Ltd., Subsurface Investigation, Port Credit Arena, Mississauga, Ontario (Project No. 8411149), dated June 1984

Golder Associates Ltd., Geotechnical Investigation, Lakeshore Road Bridge, Crossing Credit River, Mississauga, Ontario (Project No. 86112631), dated October 1986

Golder Associates Ltd., Supplementary Geotechnical Investigation, Lakeshore Rd Bridge Over Credit River, Port Credit, Ontario (Project No. 86112631), dated December 1986

Golder Associates Ltd., Geotechnical Investigation, Proposed Forcemain, Port Credit, Ontario (Project No. 89113231), dated November 1991

Golder Associates Ltd., Supplementary Geotechnical Investigation, Proposed Forcemain, Port Credit, Ontario (Project No. 89113232), dated June 1992

Golder Associates Ltd., Preliminary Ground Investigation and Design Report, GO Transit-Metrolinx Crossing, Port Credit GO Station, Hurontario/Main Light Rail Transit (HMLRT), Mississauga, Ontario, dated August 2013

Golder Associates Ltd., Draft Geotechnical Data Report (Rev. D), Front Street Station Wastewater Diversion Region of Peel Project 17-2415S, Lakeshore Road West, Mississauga, Ontario, dated June 14, 2019

Golder Associates Ltd., Geotechnical and Hydrogeological Investigations for Lakeshore Road West, Mississauga, Ontario Region of Peel Projects 19-2215 and 19-1120 dated August 15, 2022 [RECORD OF BOREHOLES / DRILLHOLES AVAILABLE ONLY)

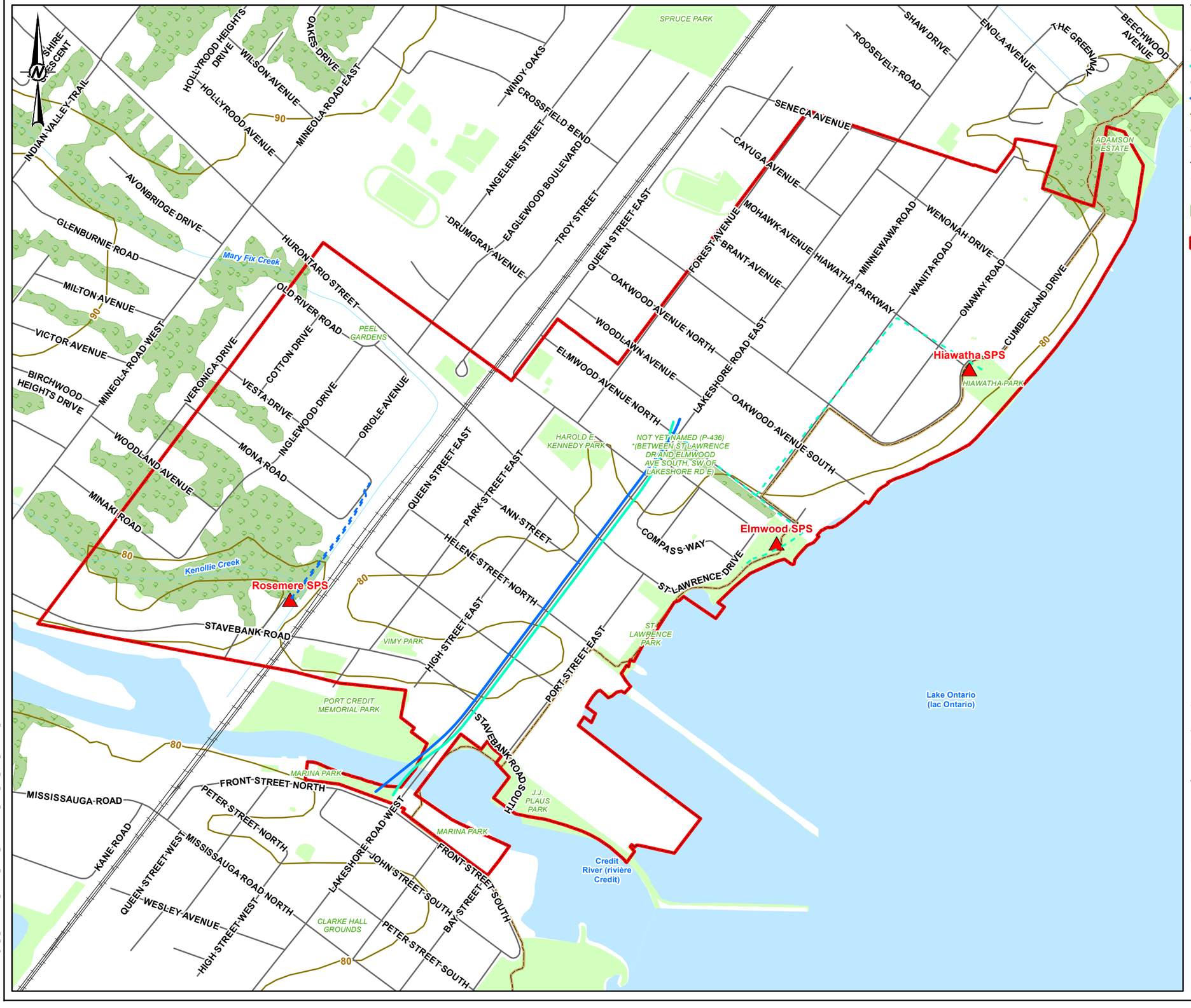
McCormick & Rankin Limited, Soil Design Report for Approaches to the Credit River Bridge in the Town of Port Credit, Lakeshore Road, dated February 1967. Geocres No. 30M11-158

Water Well Information System (WWIS), Ontario Ministry of Environment, Conservation and Parks (MECP), Queens Printer 2019

Ontario Provincial Standard Specifications:

OPSS.MUNI 517 Construction Specification for Dewatering for Excavations

FIGURES



LEGEND

- SPS STATION
- PROPOSED GRAVITY SEWER
- PROPOSED TRUNK SEWER (2400MM)
- PROPOSED TWIN FORCEMAIN
- PROPOSED SUB-TRANSMISSION WATERMAIN (750MM)
- TOPOGRAPHY CONTOUR (5 M)
- TRAIL
- RAILWAY
- ROAD
- WATERCOURSE
- WATERBODY
- WOODED AREA
- PARK
- STUDY AREA

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TITLE
STUDY AREA

CONSULTANT
wsp

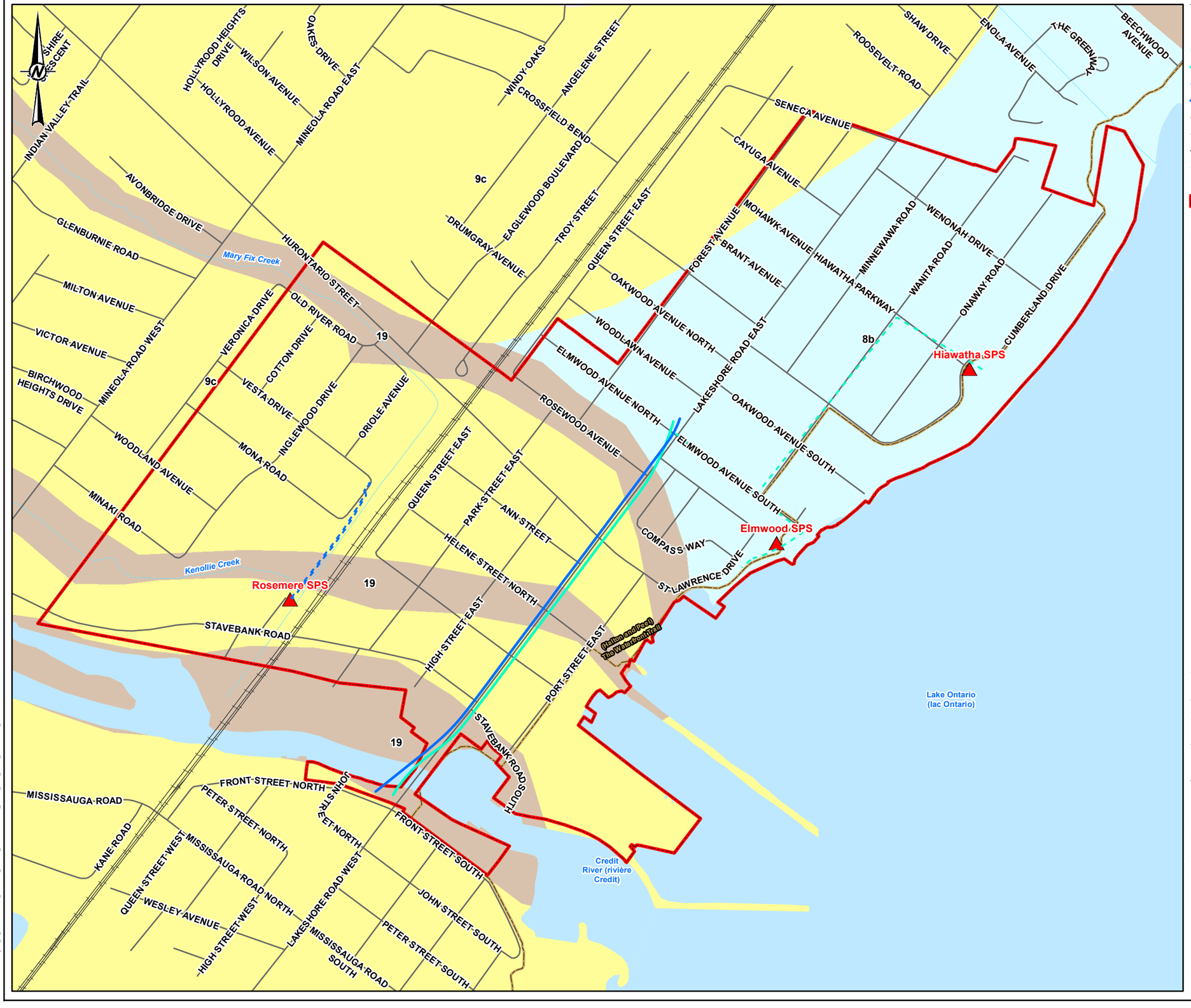
YYYY-MM-DD	2022-11-29
DESIGNED	PR
PREPARED	CGE
REVIEWED	DH
APPROVED	DH

PROJECT NO.	CONTROL	REV.	FIGURE
19129019	0018	1	1

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\19129019_GMBP_SPS_EA\40_PROD\0018_Geotechnical\19129019-0018-BG-0001.mxd PRINTED ON: 2023-10-04 AT: 4:45:41 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm



LEGEND

- SPS STATION
- PROPOSED GRAVITY SEWER
- PROPOSED TRUNK SEWER
- PROPOSED TWIN
- PROPOSED SUB-TRANSMISSION WATERMAIN
- TRAIL
- RAILWAY
- ROAD
- WATERCOURSE
- WATERBODY
- STUDY

SURFICIAL GEOLOGY

- 3: PALEOZOIC BEDROCK
- 8B: INTERBEDDED FLOW TILL, RAINOUT DEPOSITS AND SILT AND CLAY
- 9C: FORESHORE-BASINAL DEPOSITS
- 19: MODERN ALLUVIAL

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3.SURFICIAL GEOLOGY - MINISTRY OF NORTHERN DEVELOPMENT AND MINES, 1:250 000 SCALE SURFICIAL GEOLOGY OF ONTARIO; ONTARIO GEOLOGICAL SURVEY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' MUNICIPAL CLASS ENVIRONMENTAL

TITLE
SURFACE GEOLOGY

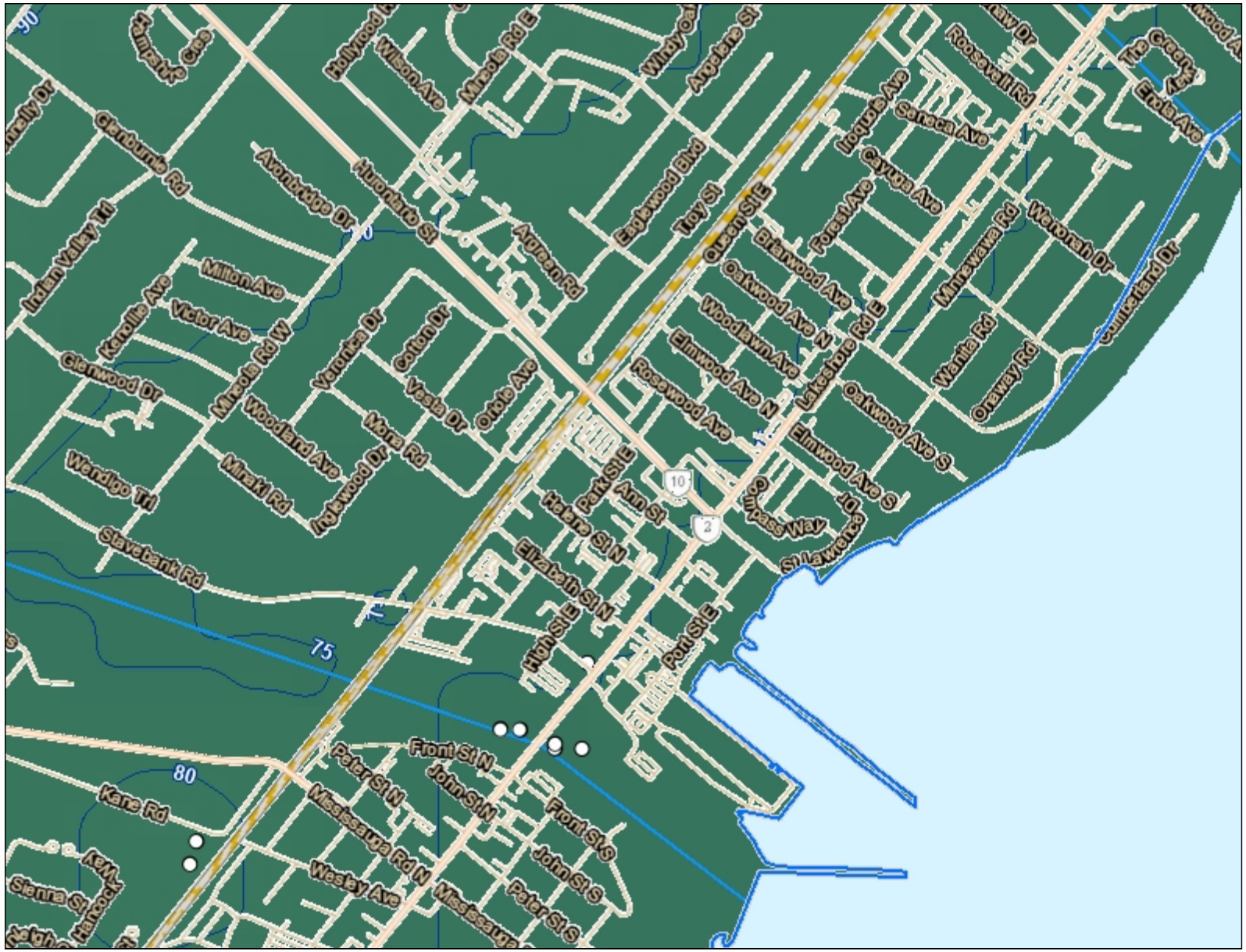
CONSULTANT
wsp

YYYY-MM-DD	2022-11-29
DESIGNED	PR
PREPARED	CGE
REVIEWED	DH
APPROVED	DH

PROJECT NO.	CONTROL	REV.	FIGURE
19129019	0018	1	2

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0018_Geotechnical\19129019-0018-BG-0002.mxd PRINTED ON: 2023-10-04 AT: 5:06:17 PM
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

FIGURE 3 - GROUNDWATER LEVEL CONTOURS



Legend

- ORMGP Boundary
- ORM Plan Boundary
- Niagara Escarpment Plan Boundary
- Shallow Wells (<20 m deep)
- Deep Wells (>40 m deep)
- Water Bodies
- Streams (Strahler > Class 3)
- Water Table 1 (WT1) (mASL)
- World Hillshade

York Region

0.9 0 0.46 0.9 Km

1: 18,056

© Oak Ridges Moraine Groundwater Program, 2022

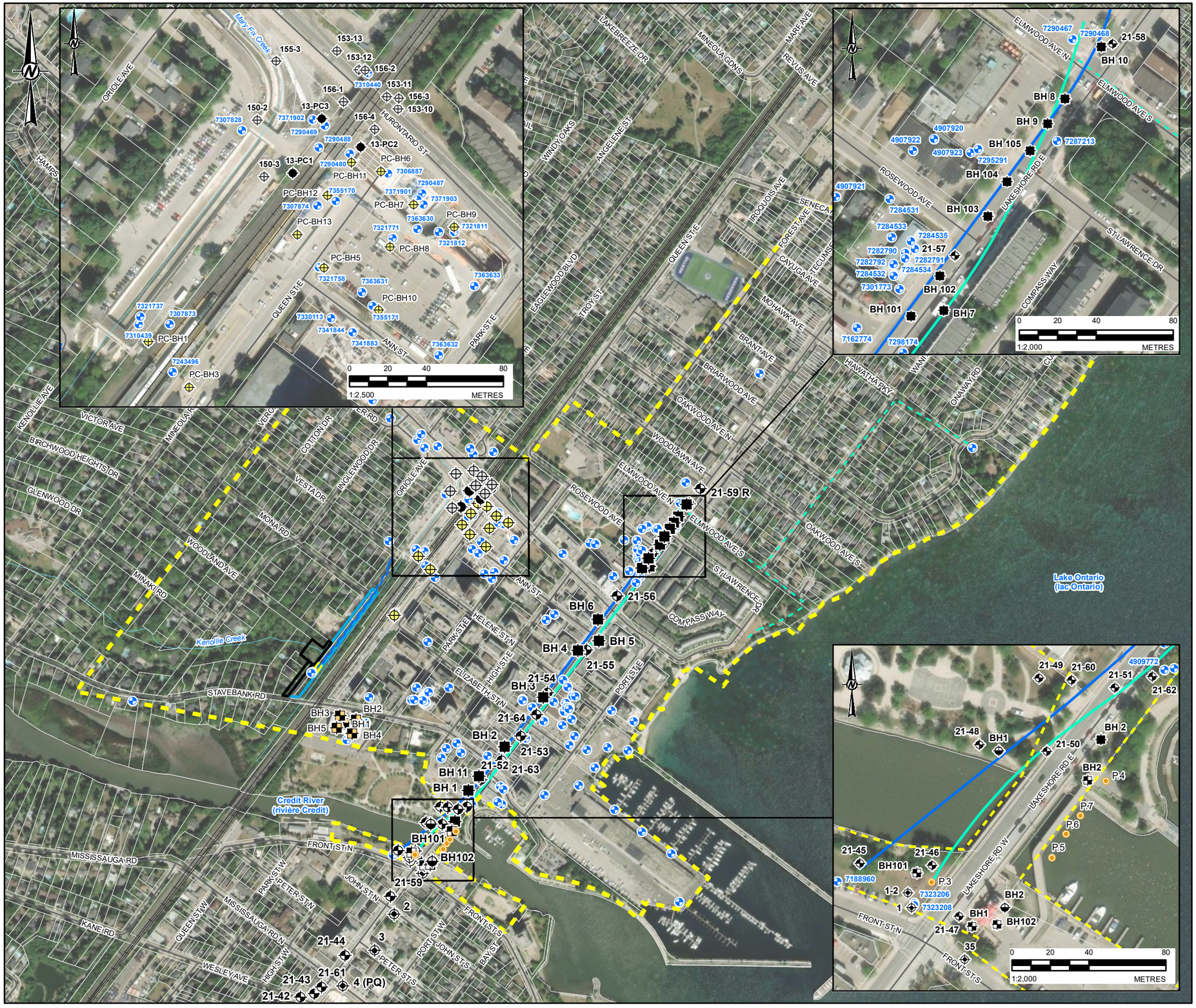
Map Compiled by the Oak Ridges Moraine Groundwater Program.101 Exchange Avenue, Vaughan, Ontario, M3N 1S4

This map is for information purposes only and the Oak Ridges Moraine Groundwater Program takes no responsibility for, nor guarantees, the accuracy of all the information contained within the map.

SOURCE: ORMGP, 2022; MNRF, 2022;

PROJECTION: WGS_1984_Web_Mercator_Auxiliary_Sphere

DATE PRINTED: August 12, 2022



LEGEND

- MECP WATER WELL LOCATION
- APPROXIMATE BOREHOLE LOCATION (MCCORMICK & RANKIN LTD, 1967)
- APPROXIMATE CONE PENETRATION TESTING LOCATION (MCCORMICK & RANKIN LTD, 1967)
- APPROXIMATE BOREHOLE LOCATION (GOLDER, 1984)
- APPROXIMATE BOREHOLE LOCATION (GOLDER, 1986)
- APPROXIMATE BOREHOLE LOCATION (GOLDER, 1991)
- BOREHOLE LOCATION (GOLDER, 2013)
- BOREHOLE LOCATION (GOLDER, 2013, BY OTHERS)
- BOREHOLE LOCATION (4TRANSIT, 2018)
- BOREHOLE LOCATION (GOLDER, 2019)
- BOREHOLE LOCATION (GOLDER, 2022, DRAFT)
- ROAD
- RAILWAY
- WATERCOURSE
- PROPOSED GRAVITY SEWER
- PROPOSED TRUNK SEWER (2400MM)
- PROPOSED TWIN FORCEMAIN
- PROPOSED SUB-TRANSMISSION WATERMAIN (750MM)
- SEWAGE PUMPING STATION PROPERTY / PROPERTY ACCESS REQUEST
- TWINNED FORCEMAIN AREA / PROPERTY ACCESS REQUEST
- PROPERTY ACCESS REQUEST
- PARCEL BOUNDARY
- REVISED STAGE 2 STUDY AREA (MAY 2022)

0 100 200 400
1:8,500 METRES

NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020. MECP, OCTOBER 2021
2. MECP WATER WELL - MECP WWIS WELL, 2022
3. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TITLE
EXISTING BOREHOLE LOCATION PLAN

CONSULTANT
wsp

YYYY-MM-DD	2023-10-05
DESIGNED	RF
PREPARED	CGE
REVIEWED	DH
APPROVED	DH

PROJECT NO.	CONTROL	REV.	MAP
19129019	0018	1	4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\Ab_PROD\0018_Geotechnical\19129019-0018-BG-0004.mxd PRINTED ON: 2023-10-05 AT: 2:46:29 PM

AIR PHOTO SHOWING
ORIGINAL SHORELINE OF CREDIT RIVER

FIGURE 5

REFERENCE: AUGUST 1939 AIR PHOTO. NATIONAL AIR PHOTO LIBRARY REFERENCE NUMBER A-3249-41

Date 891-1323
Project JAN. 16, 1991

Golder Associates

Drawn MHW
Chkd DM

LEGEND

- SPS STATION
- PROPOSED GRAVITY SEWER
- PROPOSED TRUNK SEWER (2400MM)
- PROPOSED TWIN FORCEMAIN
- PROPOSED SUB-TRANSMISSION WATERMAIN (750MM)
- STUDY AREA
- CITY OF MISSISSAUGA MUNICIPAL BOUNDARY

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. AIRPHOTO - OBTAINED FROM MISSISSAUGA MAPS (HTTP://WWW6.MISSISSAUGA.CA/MISSMAPS/#MAP=16/-8859005.42/5396771.26/0.9075712110370513), 1954
3. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TITLE
AERIAL PHOTO OF STUDY AREA, 1954

CONSULTANT
wsp

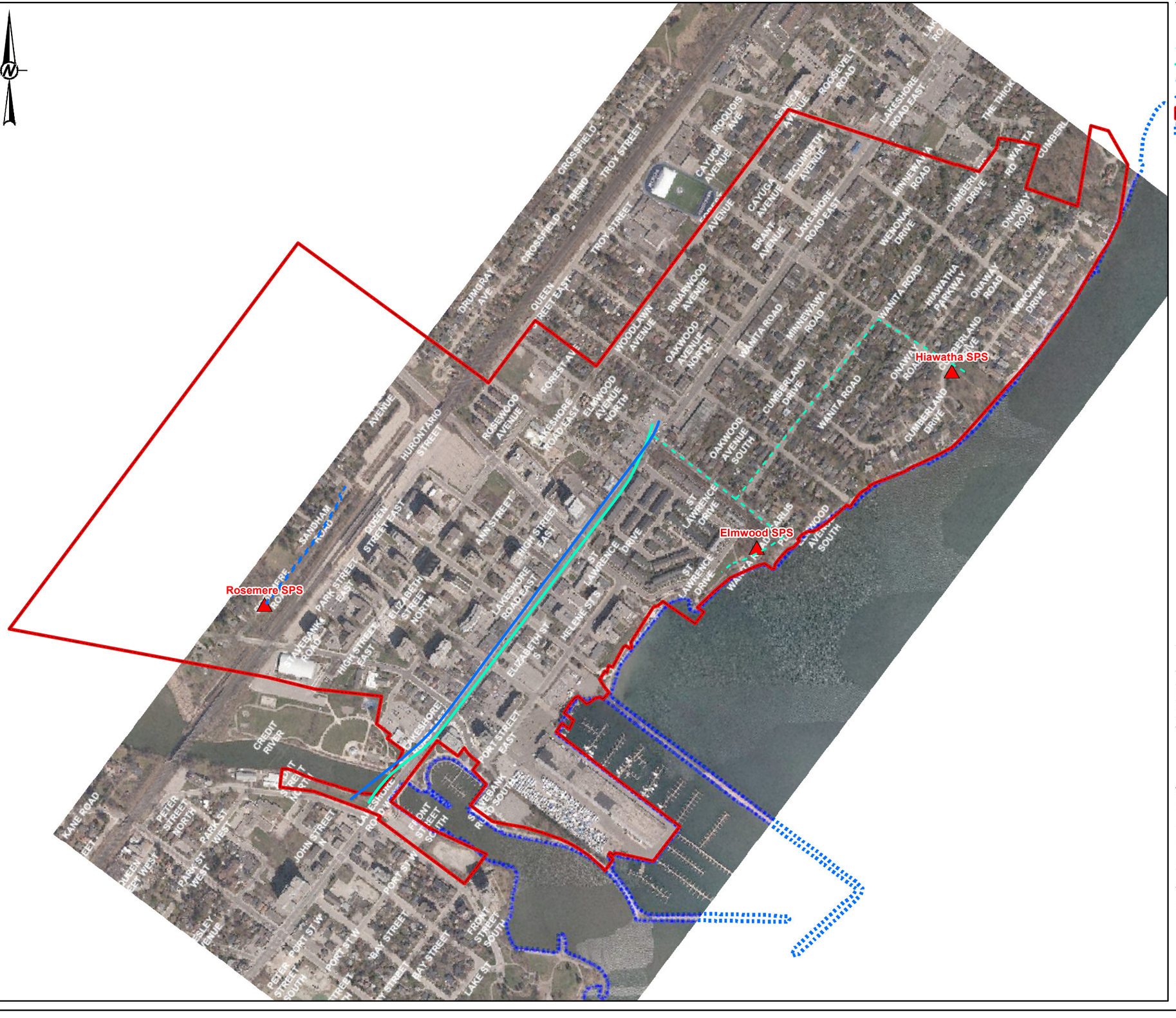
YYYY-MM-DD	2022-11-29
DESIGNED	PR
PREPARED	CGE
REVIEWED	DH
APPROVED	DH

PROJECT NO.	CONTROL	REV.	FIGURE
19129019	0018	1	6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0018_Geotech\cad\19129019-0018-BIG-0006.mxd PRINTED ON: 2023-10-05 AT 2:48:06 PM



REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. AIRPHOTO - OBTAINED FROM MISSISSAUGA MAPS (HTTP://WWW6.MISSISSAUGA.CA/MISSMAPS/#MAP=16/-8859005.42/5396771.26/0.9075712110370513), 2020
3. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TITLE
AERIAL PHOTO OF STUDY AREA, 2020

CONSULTANT

YYYY-MM-DD	2022-11-29
DESIGNED	PR
PREPARED	CGE
REVIEWED	DH
APPROVED	DH

PROJECT NO.	CONTROL	REV.	FIGURE
19129019	0018	1	7

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\6_PROD\0018_Geotech\mxd\19129019-0018-BG-0007.mxd PRINTED ON: 2023-10-05 AT: 2:49:01 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm
0

APPENDIX A

Important Information and Limitations of This Report

IMPORTANT INFORMATION AND LIMITATIONS OF THIS REPORT

Standard of Care: Golder Associates Ltd. (Golder) has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering and science professions currently practising under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty, expressed or implied is made.

Basis and Use of the Report: This report has been prepared for the specific site, design objective, development and purpose described to Golder by the Client. The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location. Any change of site conditions, purpose, development plans or if the project is not initiated within eighteen months of the date of the report may alter the validity of the report. Golder cannot be responsible for use of this report, or portions thereof, unless Golder is requested to review and, if necessary, revise the report.

The information, recommendations and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without Golder's express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the client, Golder may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to Golder. The report, all plans, data, drawings and other documents as well as all electronic media prepared by Golder are considered its professional work product and shall remain the copyright property of Golder, who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permission of Golder. The Client acknowledges that electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client can not rely upon the electronic media versions of Golder's report or other work products.

The report is of a summary nature and is not intended to stand alone without reference to the instructions given to Golder by the Client, communications between Golder and the Client, and to any other reports prepared by Golder for the Client relative to the specific site described in the report. In order to properly understand the suggestions, recommendations and opinions expressed in this report, reference must be made to the whole of the report. Golder can not be responsible for use of portions of the report without reference to the entire report.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project. The extent and detail of investigations, including the number of test holes, necessary to determine all of the relevant conditions which may affect construction costs would normally be greater than has been carried out for design purposes. Contractors bidding on, or undertaking the work, should rely on their own investigations, as well as their own interpretations of the factual data presented in the report, as to how subsurface conditions may affect their work, including but not limited to proposed construction techniques, schedule, safety and equipment capabilities.

Soil, Rock and Ground Water Conditions: Classification and identification of soils, rocks, and geologic units have been based on commonly accepted methods employed in the practice of geotechnical engineering and related disciplines. Classification and identification of the type and condition of these materials or units involves judgment, and boundaries between different soil, rock or geologic types or units may be transitional rather than abrupt. Accordingly, Golder does not warrant or guarantee the exactness of the descriptions.

Golder and the G logo are trademarks of Golder Associates Corporation

Special risks occur whenever engineering or related disciplines are applied to identify subsurface conditions and even a comprehensive investigation, sampling and testing program may fail to detect all or certain subsurface conditions. The environmental, geologic, geotechnical, geochemical and hydrogeologic conditions that Golder interprets to exist between and beyond sampling points may differ from those that actually exist. In addition to soil variability, fill of variable physical and chemical composition can be present over portions of the site or on adjacent properties. The professional services retained for this project include only the geotechnical aspects of the subsurface conditions at the site, unless otherwise specifically stated and identified in the report. The presence or implication(s) of possible surface and/or subsurface contamination resulting from previous activities or uses of the site and/or resulting from the introduction onto the site of materials from off-site sources are outside the terms of reference for this project and have not been investigated or addressed.

Soil and groundwater conditions shown in the factual data and described in the report are the observed conditions at the time of their determination or measurement. Unless otherwise noted, those conditions form the basis of the recommendations in the report. Groundwater conditions may vary between and beyond reported locations and can be affected by annual, seasonal and meteorological conditions. The condition of the soil, rock and groundwater may be significantly altered by construction activities (traffic, excavation, groundwater level lowering, pile driving, blasting, etc.) on the site or on adjacent sites. Excavation may expose the soils to changes due to wetting, drying or frost. Unless otherwise indicated the soil must be protected from these changes during construction.

Sample Disposal: Golder will dispose of all uncontaminated soil and/or rock samples 90 days following issue of this report or, upon written request of the Client, will store uncontaminated samples and materials at the Client's expense. In the event that actual contaminated soils, fills or groundwater are encountered or are inferred to be present, all contaminated samples shall remain the property and responsibility of the Client for proper disposal.

Follow-Up and Construction Services: All details of the design were not known at the time of submission of Golder's report. Golder should be retained to review the final design, project plans and documents prior to construction, to confirm that they are consistent with the intent of Golder's report.

During construction, Golder should be retained to perform sufficient and timely observations of encountered conditions to confirm and document that the subsurface conditions do not materially differ from those interpreted conditions considered in the preparation of Golder's report and to confirm and document that construction activities do not adversely affect the suggestions, recommendations and opinions contained in Golder's report. Adequate field review, observation and testing during construction are necessary for Golder to be able to provide letters of assurance, in accordance with the requirements of many regulatory authorities. In cases where this recommendation is not followed, Golder's responsibility is limited to interpreting accurately the information encountered at the borehole locations, at the time of their initial determination or measurement during the preparation of the Report.

Changed Conditions and Drainage: Where conditions encountered at the site differ significantly from those anticipated in this report, either due to natural variability of subsurface conditions or construction activities, it is a condition of this report that Golder be notified of any changes and be provided with an opportunity to review or revise the recommendations within this report. Recognition of changed soil and rock conditions requires experience and it is recommended that Golder be employed to visit the site with sufficient frequency to detect if conditions have changed significantly.

Drainage of subsurface water is commonly required either for temporary or permanent installations for the project. Improper design or construction of drainage or dewatering can have serious consequences. Golder takes no responsibility for the effects of drainage unless specifically involved in the detailed design and construction monitoring of the system.

APPENDIX B

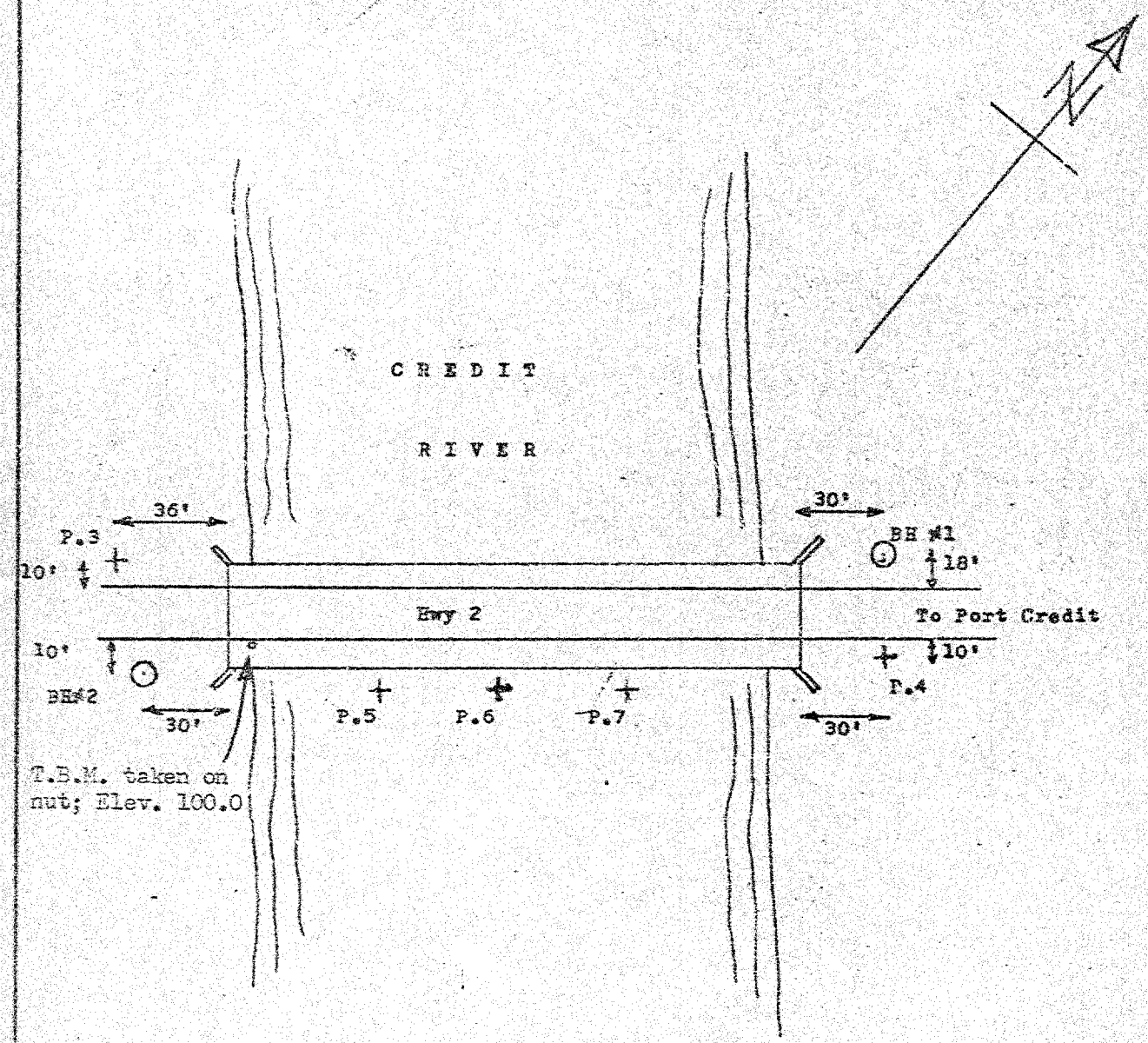
Existing Borehole Information

MCCORMICK & RANKIN LIMITED, SOIL DESIGN REPORT FOR APPROACHES TO THE CREDIT RIVER BRIDGE IN THE TOWN OF PORT CREDIT, LAKESHORE ROAD, DATED FEBRUARY 1967, GEOCRES NO. 30M11-158

Order No. S-610/T-1188

Enclosure No. 1

Prep. By R.F.S.



SITE PLAN

Foundation Investigation,
Credit River Bridge,
Peel County,
Ontario

⊙ Borehole

+ Cone Penetration Test

Not to scale

Pacey, MacCallum & Associates Ltd.

Order No. S-610/T-1188 Enclosure No. 2

RACEY MacCALLUM AND ASSOCIATES LTD.

Foundation Engineering Division

Engineering Data Sheet for Borehole: 1

Project: CREDIT RIVER BRIDGE,
Location: PEEL COUNTY, ONTARIO.
Hole Location: See Enclosure No 1.
Hole Elevation and Datum: 95.0 feet. BM = 100.0
Field Supervisor: H.G. Prep.: J.S.
Driller: M.C. Checked: R.F.S. Date: 22.5.'58

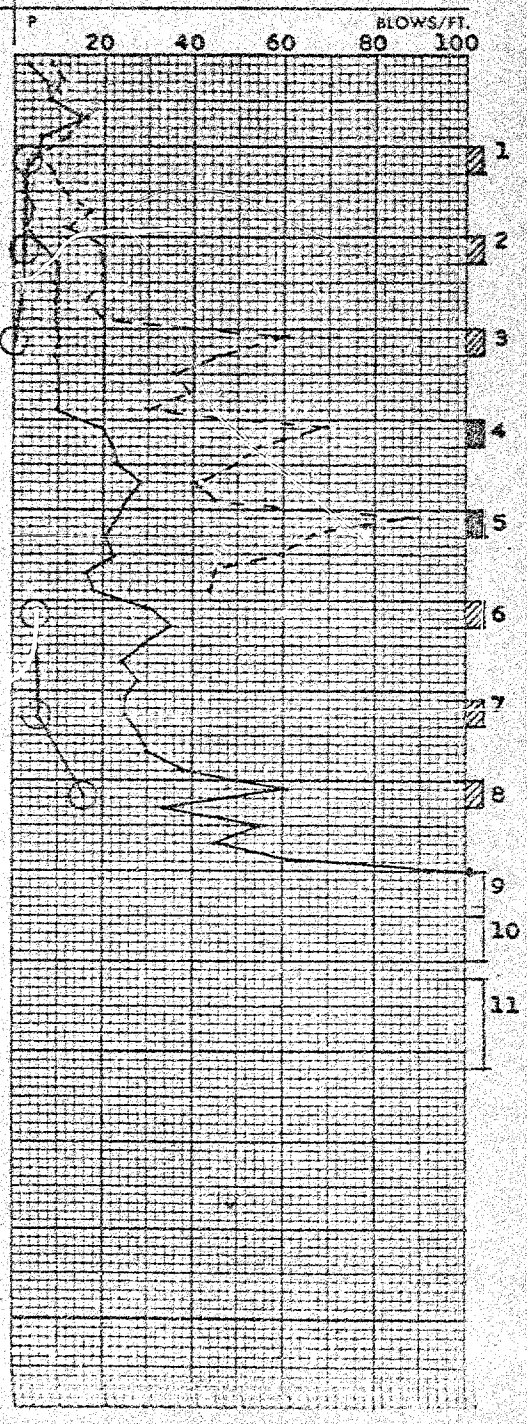
LEGEND
Shear Strength (C)
Unconfined compression ⊕
Vane test and sensitivity (S) +ˢ
Penetration Resistance (P)
2" Split tube
2" Dia. Cone
Casing

SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
	Ground surface	95.0	0
	Very loose brown slightly organic sand fill.	87.0	5
	Very soft brown-black organic silt with some clay and some sand.	55.0	10 15 20 25 30 35
	Medium dense brown sand and gravel.	51.0	40 45
	Dense medium to coarse limestone gravel, changing to layers of weathered blue shale and limestone.	39.0	50 55
	End of boring.		

STRENGTH AND PENETRATION RESISTANCE

C P.S.F.

P BLOWS/FT. 20 40 60 80 100



LEGEND :

Split spoon sample
Thin walled sample
AX core

Order No. S-610/T-1168 Enclosure No. 3

RACEY MacCALLUM AND ASSOCIATES LTD.

Foundation Engineering Division

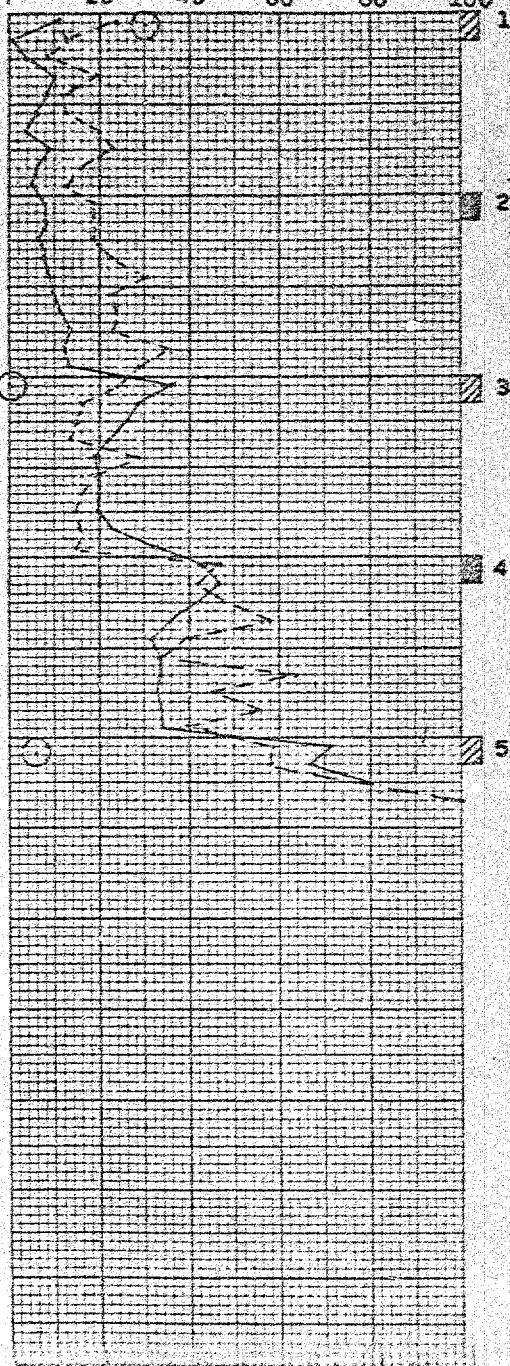
Engineering Data Sheet for Borehole: 2

Project: CREDIT RIVER BRIDGE,
Location: PEEL COUNTY, ONTARIO.
Hole Location: See Enclosure No 1.
Hole Elevation and Datum: 96.8 feet. BM = 100.0
Field Supervisor: H.G. Prep.: J.S.
Driller: M.C. Checked: R.F.S. Date: 22.5.'58

LEGEND
Shear Strength (C)
Unconfined compression ⊕
Vane test and sensitivity (S) +s
Penetration Resistance (P)
2" Split tube —⊙—⊙—
2" Dia. Cone
Casing --------

SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
		96.8	0
	Very loose silty sand fill, changing to soft brown-black organic silt with some clay and some sand.		5
			10
			15
			20
			25
		65.8	30
	Loose to medium dense brown and grey sand with gravel and some silt.		35
			40
		52.8	45
	Refusal and end of boring.		50

STRENGTH AND PENETRATION RESISTANCE
C P.S.F.
P BLOWS/FT.
20 40 60 80 100



LEGEND :

Split spoon sample

Thin walled sample

Order No. S-610/T-1188 Enclosure No. 4

RACEY MacCALLUM AND ASSOCIATES LTD.

Foundation Engineering Division

Engineering Data Sheet for ~~Boreholes~~ Cone test: 3

Project: CREDIT RIVER BRIDGE,
Location: PEEL COUNTY, ONTARIO.
Hole Location: See Enclosure No 1.
Hole Elevation and Datum: 97.3 feet. BM = 100.0
Field Supervisor: H.G. Prep.: J.S.
Driller: M.C. Checked: R.F.S. Date: 22.5.'58

LEGEND
Shear Strength (C)
Unconfined compression
Vane test and sensitivity (S) $\frac{S}{S_r}$
Penetration Resistance (P)
2" Split tube
2" Dia. Cone
Casing

SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
	Ground level	97.3	0
	Refusal at 40 feet	57.3	40

STRENGTH AND PENETRATION RESISTANCE
C P.S.F.
P 20 40 60 80 100 BLOWS/FT.
0 5 10 15 20 25 30 35 40 45

Order No. S-610/T-1188 Enclosure No. 5

RACEY MacCALLUM AND ASSOCIATES LTD.

Foundation Engineering Division

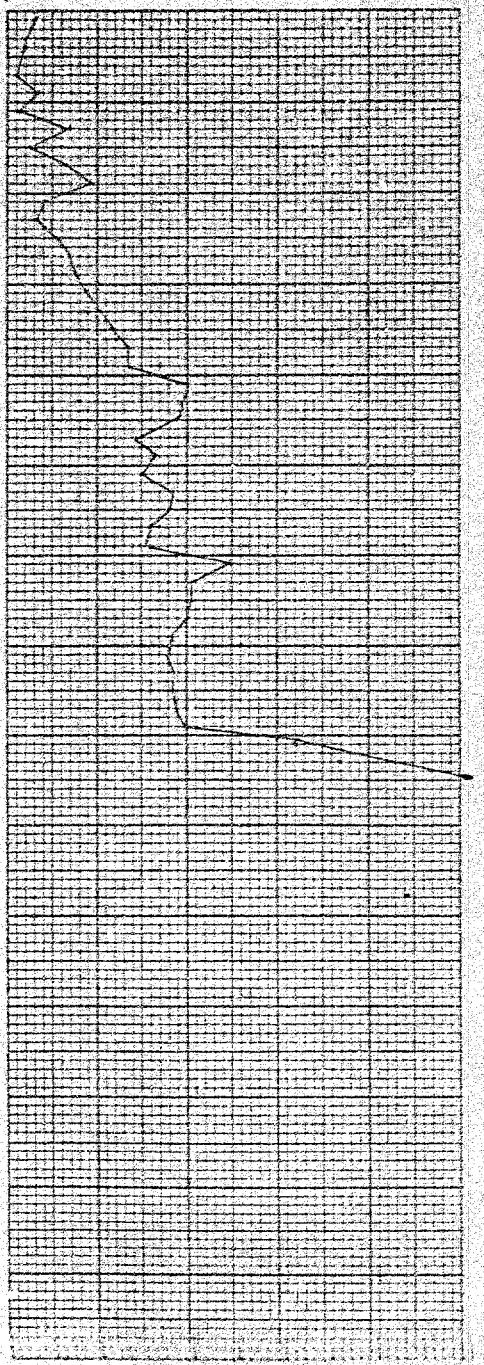
Engineering Data Sheet for ~~Borehole~~ Cone test: 4

Project: CREDIT RIVER BRIDGE,
Location: PEEL COUNTY, ONTARIO.
Hole Location: See Enclosure No 1.
Hole Elevation and Datum: 96.8 feet. BM = 100.0
Field Supervisor: H.G. Prep.: J.S.
Driller: M.C. Checked: R.F.S. Date: 22.5.'58

LEGEND
Shear Strength (C)
Unconfined compression ⊖
Vane test and sensitivity (S) +S
Penetration Resistance (P)
2" Split tube
2" Dia. Cone ⊖—⊖
Casing

SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
	Ground level	96.8	0
			5
			10
			15
			20
			25
			30
			35
			40
	Refusal at 42 feet	54.8	
			45

STRENGTH AND PENETRATION RESISTANCE
C P.S.F.
P 20 40 60 80 100 BLOWS/FT.



Order No. S-610/T-1188 Enclosure No. 6

RACEY MacCALLUM AND ASSOCIATES LTD.

Foundation Engineering Division

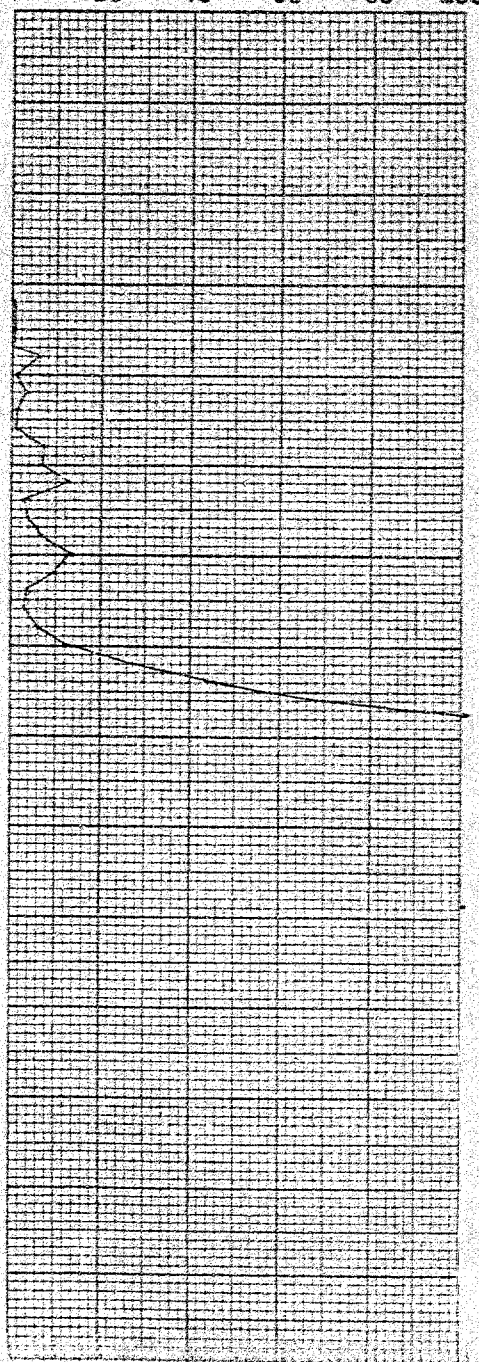
Engineering Data Sheet for ~~Borehole~~ Cone test: 5

Project: CREDIT RIVER BRIDGE,
Location: PEEL COUNTY, ONTARIO.
Hole Location: See Enclosure No 1.
Hole Elevation and Datum: 89.2 feet. BM = 100.0
Field Supervisor: H.G. Prep.: J.S.
Driller: M.C. Checked: R.F.S. Date: 22.5.'58

LEGEND
Shear Strength (C)
Unconfined compression
Vane test and sensitivity (S) ⊕ 4.5
Penetration Resistance (P)
2" Split tube
2" Dia. Cone ⊖—⊖
Casing

SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
	River level	89.2	0
	River bed at 16 feet	73.2	15
	Refusal at 39 feet	50.2	40

STRENGTH AND PENETRATION RESISTANCE
C P.S.F.
P BLOWS/FT.
20 40 60 80 100



Order No. S-610/T-1188 Enclosure No. 7

RACEY MacCALLUM AND ASSOCIATES LTD.

Foundation Engineering Division

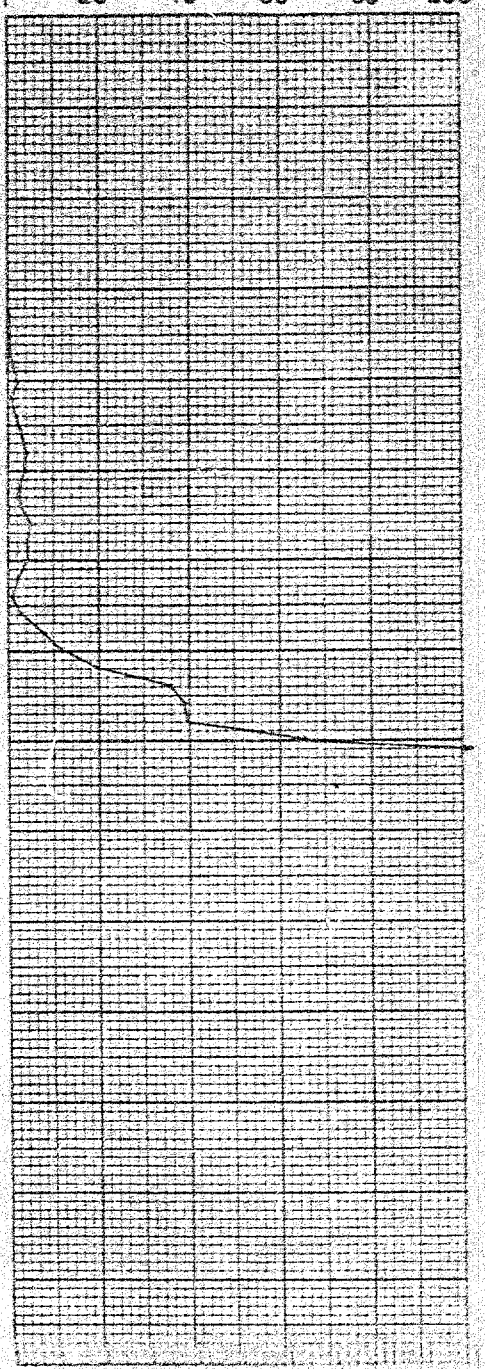
Engineering Data Sheet for ~~Borehole~~ Cone test: 6

Project: CREDIT RIVER BRIDGE,
Location: PEEL COUNTY, ONTARIO.
Hole Location: See Enclosure No.1.
Hole Elevation and Datum: 89.2 feet BM: = 100.0
Field Supervisor: H.G. Prep.: J.S.
Driller: M.C. Checked: R.F.S. Date: 22.5.'58

LEGEND
Shear Strength (C)
Unconfined compression
Vane test and sensitivity (S) ⊕ +s
Penetration Resistance (P)
2" Split tube
2" Dia. Cone —⊙—⊙—
Casing ---

SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
	River level	89.2	0
	River bed at 16 feet	73.2	15
	Refusal at 40 feet	49.2	40

STRENGTH AND PENETRATION RESISTANCE
C P.S.F.
P 20 40 60 80 100 BLOWS/FT.



Order No. S-610/T-1188 Enclosure No. 8

RACEY MacCALLUM AND ASSOCIATES LTD.

Foundation Engineering Division

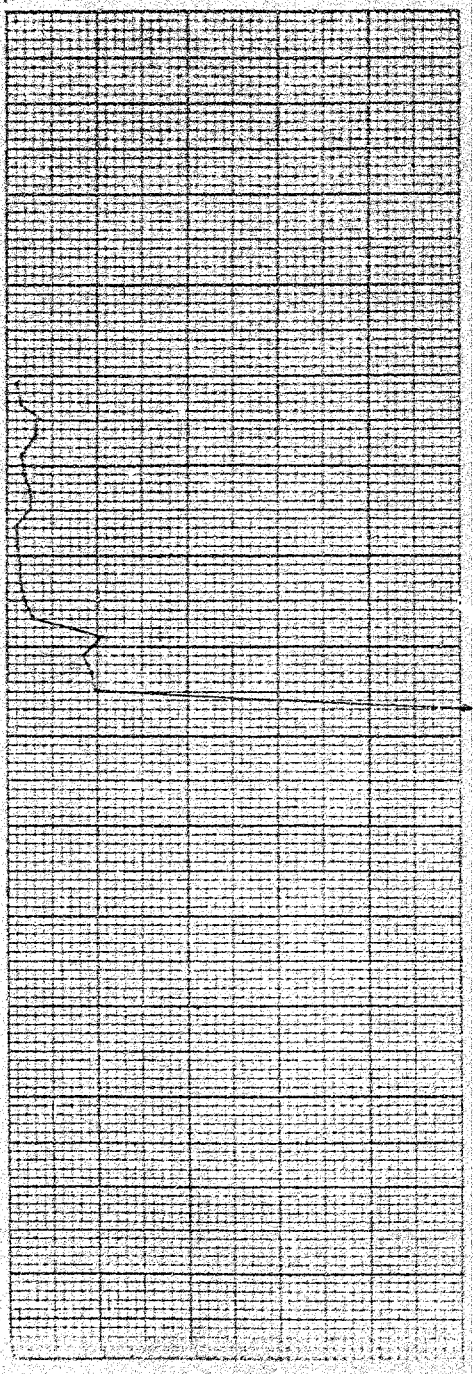
Engineering Data Sheet for ~~Borehole~~ Cone test: 7

Project: CREDIT RIVER BRIDGE,
Location: PEEL COUNTY, ONTARIO.
Hole Location: See Enclosure No 1.
Hole Elevation and Datum: 89.2 feet: BM = 100.0
Field Supervisor: H.G. Prep.: J.S.
Driller: M.C. Checked: R.F.S. Date: 22.5.'58

LEGEND
Shear Strength (C)
Unconfined compression
Vane test and sensitivity (S)
Penetration Resistance (P)
2" Split tube
2" Dia. Cone
Casing

SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
	River level	89.2	0
	River bed at 19 feet	70.2	20
	Refusal at 37 feet	51.2	40

STRENGTH AND PENETRATION RESISTANCE
C P.S.F.
P BLOWS/FT.
20 40 60 80 100

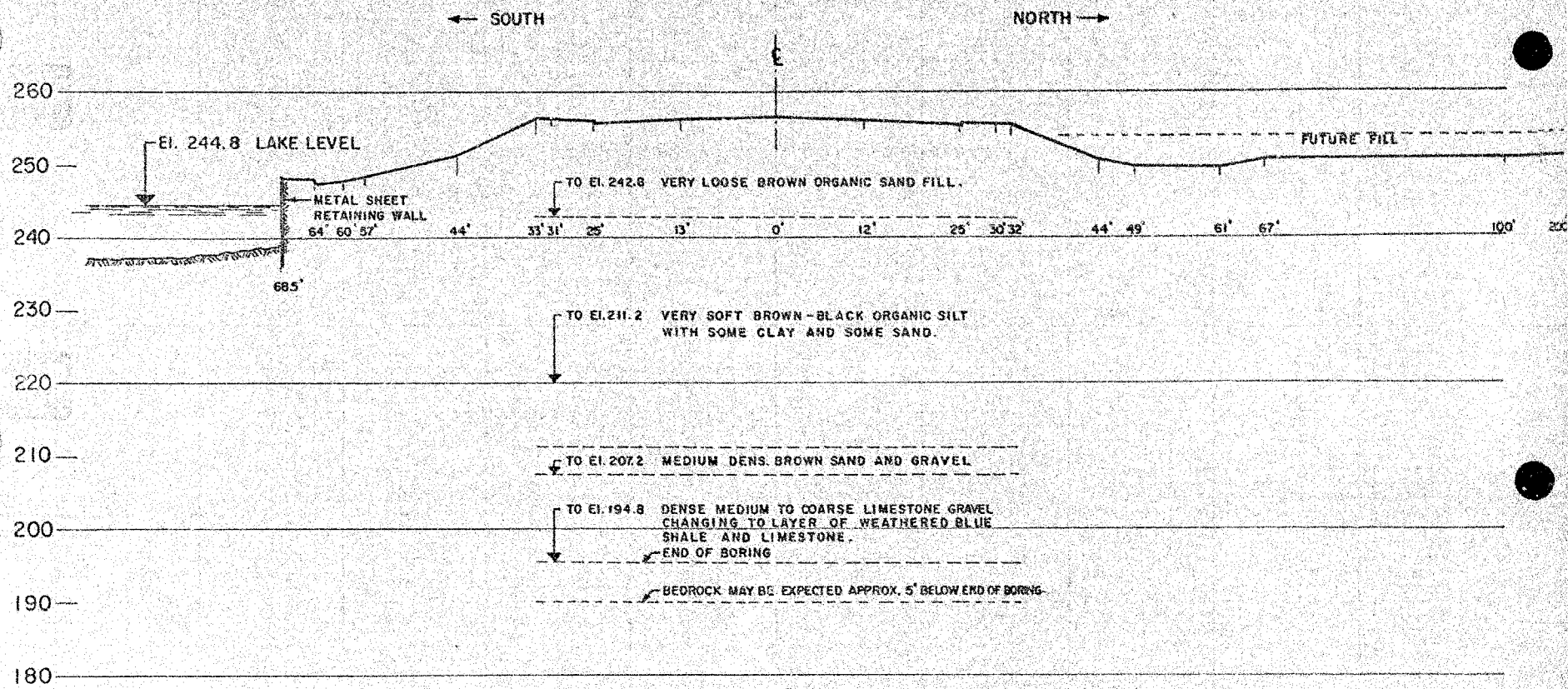


COUNTY OF PEEL
ENGINEERING DEPT.

PORT CREDIT BRIDGE

SECTION THROUGH EAST APPROACH EMBANKMENT

FEB. 1966.



STA. 5+00

SCALE: 1" = 20'

DEFECTS IN NEGATIVE DUE TO CONDITION OF ORIGINAL DOCUMENT.

SUBSURFACE INVESTIGATION, PORT CREDIT ARENA, MISSISSAUGA, ONTARIO (PROJECT NO. 8411149), DATE JUNE 1984

The abbreviation commonly employed on each "Record of Borehole," on the figures and in the text of the report, are as follows:

I. SAMPLE TYPES

AS auger sample
CS chunk sample
DO drive open
DS Denison type sample
FS foil sample
RC rock core
ST slotted tube
TO thin-walled, open
TP thin-walled, piston
WS wash sample

II. PENETRATION RESISTANCES

Dynamic Penetration Resistance:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) to drive uncased a 50 mm (2 in.) diameter, 60° cone attached to "A" size drill rods for a distance of 0.3 m (12 in.).

Standard Penetration Resistance, *N*:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) required to drive a 50 mm (2 in.) drive open sampler for a distance of 0.3 m (12 in.).

WH sampler advanced by static weight—weight, hammer

PH sampler advanced by pressure—pressure, hydraulic

PM sampler advanced by pressure—pressure, manual

III. SOIL DESCRIPTION

(a) *Cohesionless Soils*

Relative Density	*'N'* Blows/0.30m or Blows/ft.
Very loose	0 to 4
Loose	4 to 10
Compact	10 to 30
Dense	30 to 50
Very dense	over 50

(b) *Cohesive Soils*

Consistency	*'Cu'* kPa	*'Cu'* psf.
Very soft	0 to 12	0 to 250
Soft	12 to 25	250 to 500
Firm	25 to 50	500 to 1000
Stiff	50 to 100	1000 to 2000
Very stiff	100 to 200	2000 to 4000
Hard	over 200	over 4000

IV. SOIL TESTS

C consolidation test
H hydrometer analysis
M sieve analysis
MH combined analysis, sieve and hydrometer[1]
Q undrained triaxial[2]
R consolidated undrained triaxial[2]
S drained triaxial
U unconfined compression
V field vane test

NOTES:
[1]Combined analyses when 5 to 95 per cent of the material passes the No. 200 sieve.
[2]Undrained triaxial tests in which pore pressures are measured are shown as $\bar{Q}$ or $\bar{R}$.

LIST OF SYMBOLS

I. GENERAL

$\pi = 3.1416$

e = base of natural logarithms 2.7183

$\log_e a$ or $\ln a$, natural logarithm of a

$\log_{10} a$ or $\log a$, logarithm of a to base 10

t	time
g	acceleration due to gravity
V	volume
W	weight
M	moment
F	factor of safety

II. STRESS AND STRAIN

u	pore pressure
σ	normal stress
σ'	normal effective stress ($\bar{\sigma}$ is also used)
τ	shear stress
ϵ	linear strain
ϵ_{xy}	shear strain
ν	Poisson's ratio (μ is also used)
E	modulus of linear deformation (Young's modulus)
G	modulus of shear deformation
K	modulus of compressibility
η	coefficient of viscosity

III. SOIL PROPERTIES

(a) *Unit weight*

γ	unit weight of soil (bulk density)
γ_s	unit weight of solid particles
γ_w	unit weight of water
γ_d	unit dry weight of soil (dry density)
γ'	unit weight of submerged soil
G_s	specific gravity of solid particles $G_s = \gamma_s/\gamma_w$
e	void ratio
n	porosity
w	water content
S_r	degree of saturation

(b) *Consistency*

w_L	liquid limit
w_P	plastic limit
I_P	plasticity index
w_S	shrinkage limit
I_L	liquidity index $= (w - w_P)/I_P$
I_C	consistency index $= (w_L - w)/I_P$
e_{max}	void ratio in loosest state
e_{min}	void ratio in densest state
D_r	relative density $= (e_{max} - e)/(e_{max} - e_{min})$

(c) *Permeability*

h	hydraulic head or potential
q	rate of discharge
v	velocity of flow
i	hydraulic gradient
k	coefficient of permeability
j	seepage force per unit volume

(d) *Consolidation (one-dimensional)*

m_v	coefficient of volume change $= -\Delta e/(1+e)\Delta\sigma'$
C_c	compression index $= -\Delta e/\Delta \log_{10} \sigma'$
c_v	coefficient of consolidation
T_v	time factor $= c_v t/d^2$ (d, drainage path)
U	degree of consolidation

(e) *Shear strength*

τ_f	shear strength	
c'	effective cohesion intercept	in terms of effective stress $\tau_f = c' + \sigma' \tan \phi'$
ϕ'	effective angle of shearing resistance, or friction	
c_u	apparent cohesion*	in terms of total stress $\tau_f = c_u + \sigma \tan \phi_u$
ϕ_u	apparent angle of shearing resistance, or friction	
μ	coefficient of friction	
S_t	sensitivity	

*For the case of a saturated cohesive soil, $\phi_u = 0$ and the undrained shear strength $\tau_f = c_u$ is taken as half the undrained compressive strength.

RECORD OF BOREHOLE 1

LOCATION See Figure 2 BORING DATE June 1, 1984 DATUM Local

SAMPLER HAMMER, 140 LB.; DROP, 30 IN. PENETRATION TEST HAMMER, 140 LB.; DROP, 30 IN.

BORING METHOD: POWER AUGER BORING — CME 45, 6" O.D. HOLLOW STEM AUGERS

ELEV'N. DEPTH (FT.)	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	TYPE	BLOWS/FT.
99.1 / 0.0	Floor Surface CONCRETE				
0.4 / 0.9	GRAVELLY SAND Trace Silt (FILL)				
94.6	Dense Buff SAND and GRAVEL (CRUSHED STONE FILL)		1	2" D.D.	79
4.5 / 89.6	Brown SILT some clay with Ice Lenses.		2 3	"	50 33
9.5 / 81.1	Compact Grey SILT, faintly stratified		4 5	"	25 16
18.0 / 72.6	Stiff grey SILTY CLAY some rounded gravel and sand (CLAY TILL)		6 7	"	11 10
26.5	END OF HOLE				

ELEVATION SCALE: 100, 95, 90, 85, 80, 75, 70

IN SITU TEMPERATURE — □ (DEGREES FAHRENHEIT): 10, 20, 30, 40

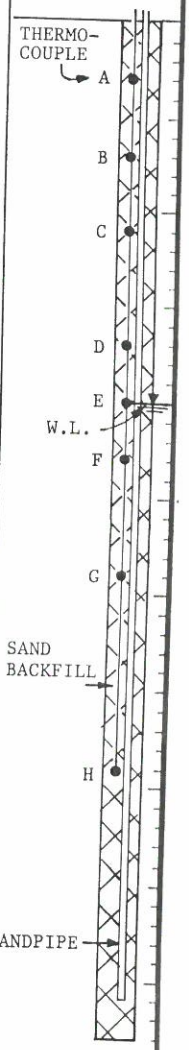
SHEAR STRENGTH Cu, LB./SQ. FT. nat. V. — + Q. — ● rem. V. — ⊕ U. — ○

HYDRAULIC CONDUCTIVITY, k, CM./SEC.: 1x10, 1x10, 1x10, 1x10

WATER CONTENT, PERCENT: Wp, W, WL; 10, 20, 30, 40

ADDITIONAL LAB. TESTING: MH

PIEZOMETER OR STANDPIPE INSTALLATION



Water level in Standpipe at elev. 89.1 ft. on June 4, 1984

Insitu temperature readings taken on June 4, 1984

15 ○ 5 PERCENT AXIAL STRAIN AT FAILURE 10

VERTICAL SCALE
1 INCH TO 5 FEET

Golder Associates

DRAWN MHW
CHECKED

RECORD OF BOREHOLE 2

LOCATION See Figure 2 BORING DATE June 1, 1984 DATUM Local

SAMPLER HAMMER, 140 LB.; DROP, 30 IN. PENETRATION TEST HAMMER, 140 LB.; DROP, 30 IN.

DEPTH SCALE, FEET	BORING METHOD	ELEV'N. / DEPTH (FT.)	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/FT.	ELEVATION SCALE
0	POWER AUGER BORING – CME 45 6" O.D. HOLLOW STEM AUGERS	98.8	Floor Surface					95
		0.0	CONCRETE					
		0.4	GRAVELLY SAND Trace Silt (FILL)					
		1.0	Compact Buff SAND and GRAVEL (CRUSHED STONE FILL)		1	2" D.O.	18	
		94.3						
5		4.5	Compact to Dense Brown to Grey SILT to fine SANDY SILT trace clay.		2	"	35	90
					3	"	27	
10		86.8			4	"	12	
		12.0	END OF HOLE					85
15								

IN SITU TEMPERATURE — □ (DEGREES FAHRENHEIGHT) 10 20 30 40

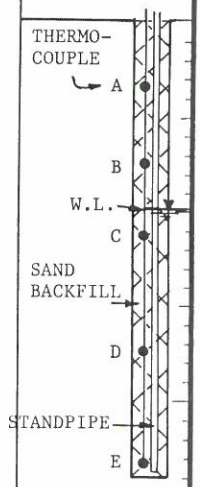
SHEAR STRENGTH Cu, LB./SQ. FT. nat. V. – + Q. – ● rem. V. – ⊕ U. – ○

HYDRAULIC CONDUCTIVITY, k, CM./SEC. 1x10 1x10 1x10 1x10

WATER CONTENT, PERCENT Wp W WL 10 20 30 40

ADDITIONAL LAB. TESTING

PIEZOMETER OR STANDPIPE INSTALLATION



Water level in Standpipe at elev. 93.8 ft. on June 4, 1984

Insitu temperature readings taken on June 4, 1984

15 10 5 PERCENT AXIAL STRAIN AT FAILURE

VERTICAL SCALE
1 INCH TO 5 FEET

Golder Associates

DRAWN MHW

CHECKED

RECORD OF BOREHOLE 3

LOCATION See Figure 2 BORING DATE June 1, 1984 DATUM Local

SAMPLER HAMMER, 140 LB.; DROP, 30 IN. PENETRATION TEST HAMMER, 140 LB.; DROP, 30 IN.

DEPTH SCALE, FEET	BORING METHOD	ELEV'N. / DEPTH (FT.)	SOIL PROFILE DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/FT.	ELEVATION SCALE
0	POWER AUGER BORING — CME 45; SOLID STEM AUGERS	99.0	Floor Surface					
		0.0	CONCRETE					
		0.4	GRAVELLY SAND Trace Silt (FILL)					
		0.8	Dense Buff SAND and GRAVEL (CRUSHED STONE FILL)		1	2" D.O.	46	95
5	6" O.D. HOLLOW STEM AUGERS	95.2						
		3.8	Brown SILT, Trace Clay, with Ice Lenses		2	"	24	
		92.0						90
10		7.0	Compact Grey SILT to Fine SANDY SILT		3	"	15	
		87.0			4	"	20	
		12.0	END OF HOLE					85
15								

IN SITU TEMPERATURE — □ (DEGREES FAHRENHEIGHT) 10 20 30 40

SHEAR STRENGTH Cu, LB./SQ. FT. nat. V. – + Q. – ● rem. V. – ⊕ U. – ○

HYDRAULIC CONDUCTIVITY, k, CM./SEC. 1x10 1x10 1x10 1x10

WATER CONTENT, PERCENT Wp W WL

ADDITIONAL LAB. TESTING

PIEZOMETER OR STANDPIPE INSTALLATION

NATIVE BACKFILL

W.L.

STANDPIPE

Water level in Standpipe at elev. 93.7 ft. on June 4, 1984

15 – 0 – 5 PERCENT AXIAL STRAIN AT FAILURE
10

VERTICAL SCALE
1 INCH TO 5 FEET

Golder Associates

DRAWN MHW

CHECKED

RECORD OF BOREHOLE 4

LOCATION See Figure 2 BORING DATE June 1, 1984 DATUM Local

SAMPLER HAMMER, 140 LB.; DROP, 30 IN. PENETRATION TEST HAMMER, 140 LB.; DROP, 30 IN.

DEPTH SCALE, FEET	BORING METHOD	ELEV'N. / DEPTH (FT.)	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/FT.	ELEVATION SCALE
0	POWER AUGER BORING — CME 45, 6" O.D HOLLOW STEM AUGERS	98.9	Floor Surface					95
		0.0	CONCRETE					
		0.4	GRAVELLY SAND Trace Silt (FILL)					
		0.8	Compact Buff SAND and GRAVEL (CRUSHED STONE FILL)		1	2" D.O.	20	
5		94.4 / 4.5	Brown SILTY Fine SAND to SANDY SILT, Trace Organics, Ice Lenses throughout		2	"	15	90
		91.9 / 7.0	Compact to Dense Brown SILTY Fine SAND, faintly stratified		3	"	23	
10		86.9			4	"	68	85
		12.0	END OF HOLE					
15								

IN SITU TEMPERATURE — □ (DEGREES FAHRENHEIT) 10 20 30 40

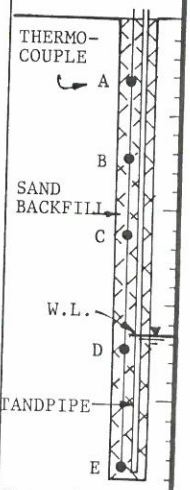
SHEAR STRENGTH Cu, LB./SQ.FT. nat. V. - + Q. - ● rem. V. - ⊕ U. - ○

HYDRAULIC CONDUCTIVITY, k, CM./SEC. 1x10 1x10 1x10 1x10

WATER CONTENT, PERCENT Wp W WL 10 20 30 40

ADDITIONAL LAB. TESTING: MH

PIEZOMETER OR STANDPIPE INSTALLATION



Water level in Standpipe at elev. 90.6 ft. on June 4, 1984

Insitu, temperature readings taken on June 4, 1984

15 0 10 5 PERCENT AXIAL STRAIN AT FAILURE

VERTICAL SCALE
1 INCH TO 5 FEET

Golder Associates

DRAWN MHW

RECORD OF BOREHOLE 5

LOCATION See Figure 2 BORING DATE June 1, 1984 DATUM Local

SAMPLER HAMMER, 140 LB.; DROP, 30 IN. PENETRATION TEST HAMMER, 140 LB.; DROP, 30 IN.

DEPTH SCALE, FEET	BORING METHOD	ELEV'N. / DEPTH (FT.)	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/FT.	ELEVATION SCALE
0	POWER AUGER BORING – CME 45, 6" O.D. HOLLOW STEM AUGERS	98.9	Floor Surface					95
		0.0	CONCRETE					
		0.4	GRAVELLY SAND					
		0.9	Trace Silt (FILL)					
			Compact Buff SAND and GRAVEL (CRUSHED STONE FILL)		1	2" D.O.	22	
		94.4						
5		4.5	Brown SILTY SAND with Ice Lenses throughout		2	"	26	90
		91.9						
		7.0	Dense to Compact Brown SILT to SILTY SAND, Occasional Rust Staining		3	"	48	
10					4	"	17	85
		86.9						
		12.0	END OF HOLE					
15								

IN SITU TEMPERATURE — □ (DEGREES FAHRENHEIT) 10 20 30 40

SHEAR STRENGTH Cu, LB./SQ. FT. nat. V. – + Q. – ● rem. V. – ⊕ U. – ○

HYDRAULIC CONDUCTIVITY, k, CM./SEC. 1x10 1x10 1x10 1x10

WATER CONTENT, PERCENT Wp W WL

ADDITIONAL LAB. TESTING

PIEZOMETER OR STANDPIPE INSTALLATION

NATIVE BACKFILL

STANDPIPE

Standpipe blocked at elev. 90.6 ft. on June 4, 1984

15 – 5 PERCENT AXIAL STRAIN AT FAILURE

VERTICAL SCALE
1 INCH TO 5 FEET

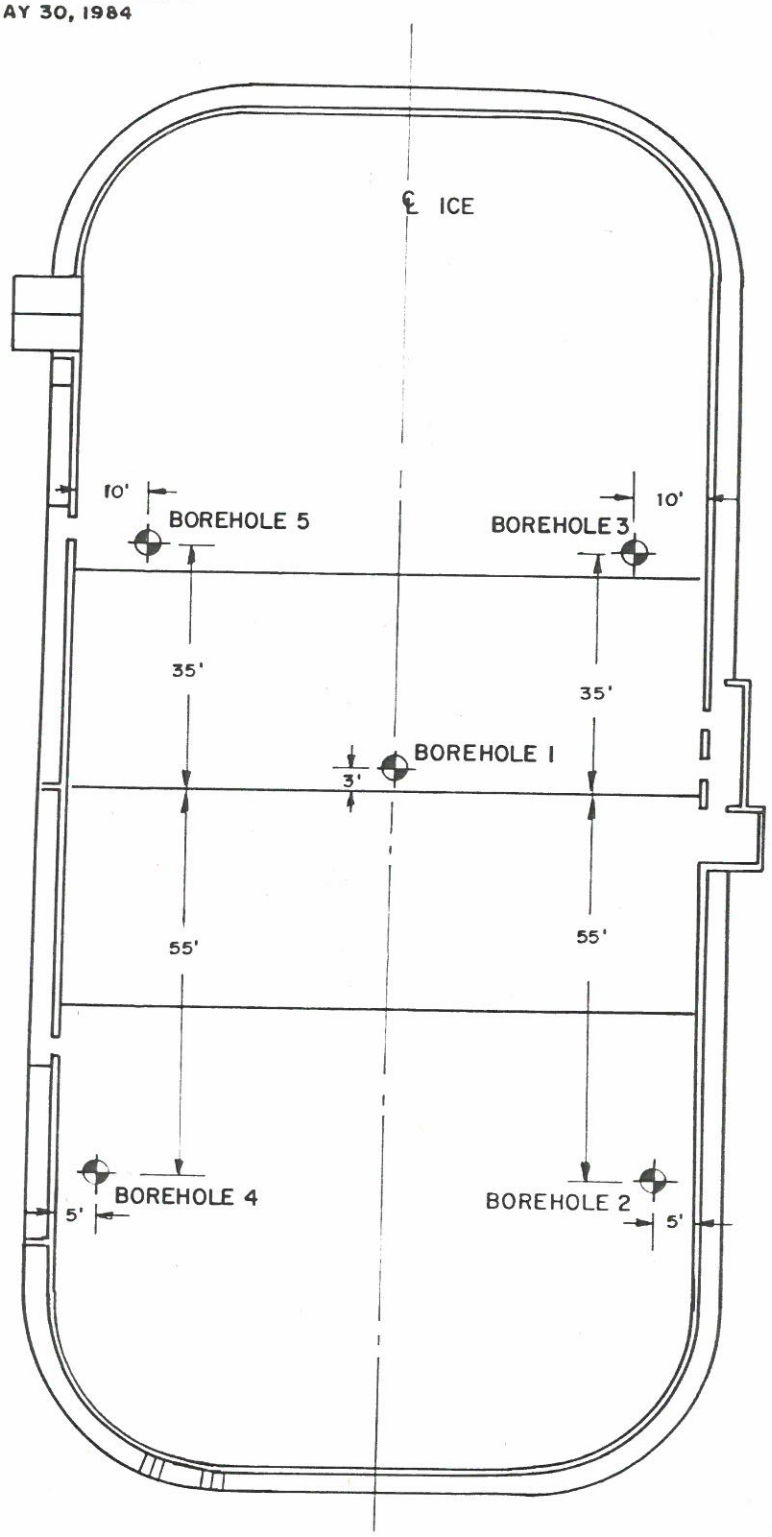
Golder Associates

DRAWN MHW

BOREHOLE LOCATION PLAN
PORT CREDIT ARENA

FIGURE 2

REFERENCE: MORRISON HERSHFIELD LIMITED,
SKETCH No. 184-02363/3
DATED MAY 30, 1984



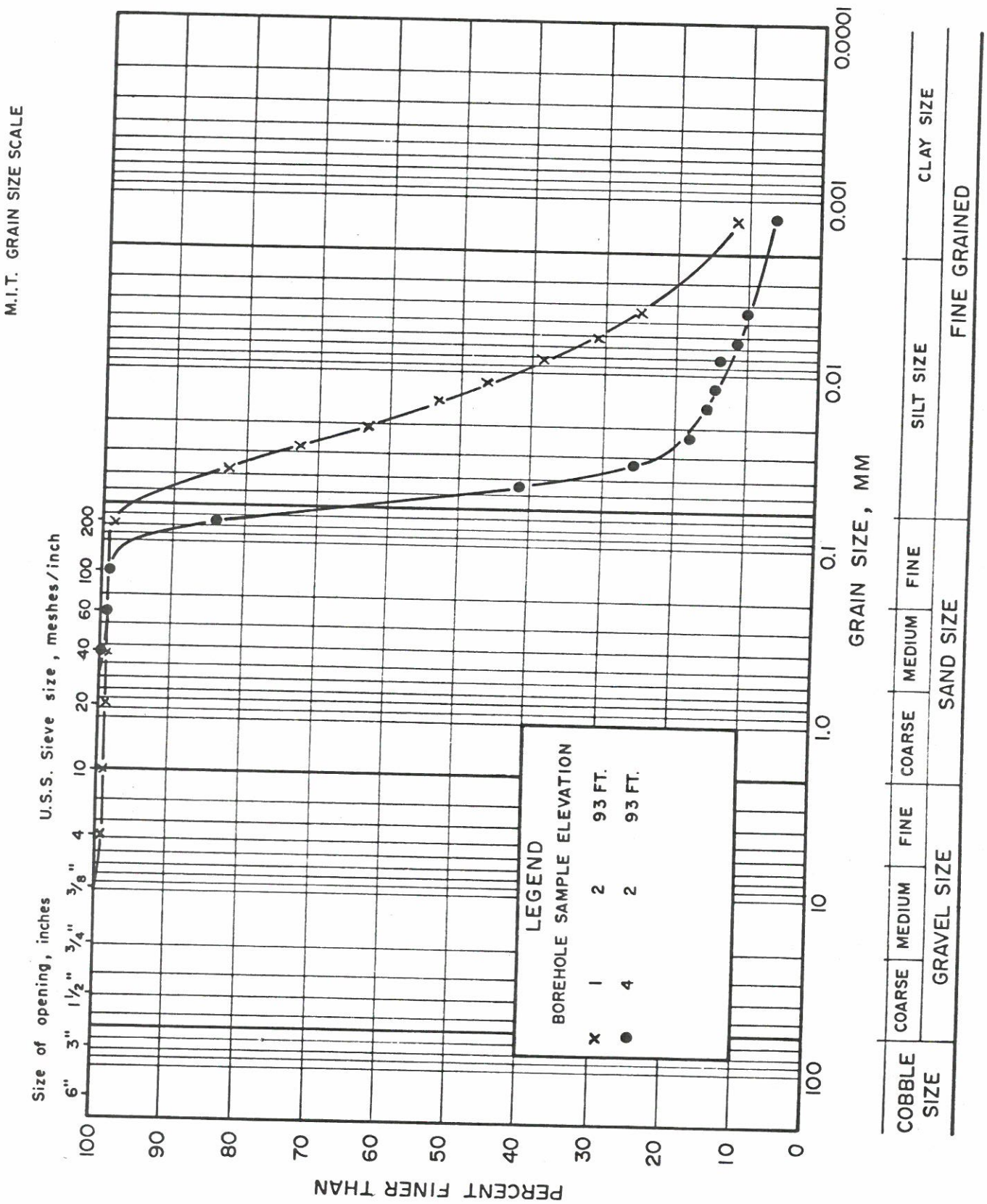
Date JUNE 6, 1984
Project No. 841-1149

Golder Associates

Drawn MHW
Chkd. [illegible]

GRAIN SIZE DISTRIBUTION
NATIVE SILTS

FIGURE 3



Golder Associates

GEOTECHNICAL INVESTIGATION, LAKESHORE ROAD BRIDGE, CROSSING CREDIT RIVER, MISSISSAUGA, ONTARIO (PROJECT NO. 86112631), DATED OCTOBER 1986

LIST OF ABBREVIATIONS

The abbreviation commonly employed on each "Record of Borehole," on the figures and in the text of the report, are as follows:

I. SAMPLE TYPES

AS auger sample
CS chunk sample
DO drive open
DS Denison type sample
FS foil sample
RC rock core
ST slotted tube
TO thin-walled, open
TP thin-walled, piston
WS wash sample

II. PENETRATION RESISTANCES

Dynamic Penetration Resistance:

The number of blows by a 63.6 kg (140 lb) hammer dropped 760 mm (30 in.) to drive uncased a 50 mm (2 in.) diameter, 60° cone attached to "A" size drill rods for a distance of 0.3 m (12 in.).

Standard Penetration Resistance, *N*:

The number of blows by a 63.6 kg (140 lb) hammer dropped 760 mm (30 in.) required to drive a 50 mm (2 in.) drive open sampler for a distance of 0.3 m (12 in.).

WH sampler advanced by static weight—weight, hammer

PH sampler advanced by pressure—pressure, hydraulic

PM sampler advanced by pressure—pressure, manual

III. SOIL DESCRIPTION

(a) *Cohesionless Soils*

Relative Density	*'N'* Blows/0.30m or Blows/ft.
Very loose	0 to 4
Loose	4 to 10
Compact	10 to 30
Dense	30 to 50
Very dense	over 50

(b) *Cohesive Soils*

Consistency	*'Cu'* kPa	psf.
Very soft	0 to 12	0 to 250
Soft	12 to 25	250 to 500
Firm	25 to 50	500 to 1000
Stiff	50 to 100	1000 to 2000
Very stiff	100 to 200	2000 to 4000
Hard	over 200	over 4000

IV. SOIL TESTS

C consolidation test
H hydrometer analysis
M sieve analysis
MH combined analysis, sieve and hydrometer[1]
Q undrained triaxial[2]
R consolidated undrained triaxial[2]
S drained triaxial
U unconfined compression
V field vane test

NOTES:
[1]Combined analyses when 5 to 95 per cent of the material passes the No. 200 sieve.
[2]Undrained triaxial tests in which pore pressures are measured are shown as $\bar{Q}$ or $\bar{R}$.

LIST OF SYMBOLS

I. GENERAL

$\pi = 3.1416$

e = base of natural logarithms 2.7183

$\log_e a$ or $\ln a$, natural logarithm of a

$\log_{10} a$ or $\log a$, logarithm of a to base 10

t	time
g	acceleration due to gravity
V	volume
W	weight
M	moment
F	factor of safety

II. STRESS AND STRAIN

u	pore pressure
σ	normal stress
σ'	normal effective stress ($\bar{\sigma}$ is also used)
τ	shear stress
ϵ	linear strain
ϵ_{xy}	shear strain
ν	Poisson's ratio (μ is also used)
E	modulus of linear deformation (Young's modulus)
G	modulus of shear deformation
K	modulus of compressibility
η	coefficient of viscosity

III. SOIL PROPERTIES

(a) *Unit weight*

γ	unit weight of soil (bulk density)
γ_s	unit weight of solid particles
γ_w	unit weight of water
γ_d	unit dry weight of soil (dry density)
γ'	unit weight of submerged soil
G_s	specific gravity of solid particles $G_s = \gamma_s/\gamma_w$
e	void ratio
n	porosity
w	water content
S_r	degree of saturation

(b) *Consistency*

w_L	liquid limit
w_P	plastic limit
I_P	plasticity index
w_S	shrinkage limit
I_L	liquidity index $= (w - w_P)/I_P$
I_C	consistency index $= (w_L - w)/I_P$
e_{max}	void ratio in loosest state
e_{min}	void ratio in densest state
D_r	relative density $= (e_{max} - e)/(e_{max} - e_{min})$

(c) *Permeability*

h	hydraulic head or potential
q	rate of discharge
v	velocity of flow
i	hydraulic gradient
k	coefficient of permeability
j	seepage force per unit volume

(d) *Consolidation (one-dimensional)*

m_v	coefficient of volume change $= -\Delta e/(1+e)\Delta\sigma'$
C_c	compression index $= -\Delta e/\Delta \log_{10} \sigma'$
c_v	coefficient of consolidation
T_v	time factor $= c_v t/d^2$ (d, drainage path)
U	degree of consolidation

(e) *Shear strength*

τ_f	shear strength	
c'	effective cohesion intercept	in terms of effective stress $\tau_f = c' + \sigma' \tan \phi'$
ϕ'	effective angle of shearing resistance, or friction	
c_u	apparent cohesion*	in terms of total stress $\tau_f = c_u + \sigma \tan \phi_u$
ϕ_u	apparent angle of shearing resistance, or friction	
μ	coefficient of friction	
S_t	sensitivity	

*For the case of a saturated cohesive soil, $\phi_u = 0$ and the undrained shear strength $\tau_f = c_u$ is taken as half the undrained compressive strength.

RECORD OF BOREHOLE 1

SHEET 1 OF 2

LOCATION See Figure 2 BORING DATE AUGUST 21, 1986 DATUM GEODETIC

SAMPLER HAMMER, 63.5 kg.; DROP, 760 mm PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE, METRES	BORING METHOD	ELEV'N. / DEPTH (m)	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/0.3m	ELEVATION SCALE
0	CME 55 POWER AUGER HOLLOW STEM POWER AUGER	78.51	GROUND SURFACE					78
		0.04	ASPHALT					
1			Loose to compact brown sand and gravel, trace to some silt becoming silty sand, some gravel. FILL		1	50 mm D.O.	23	
2					2	"	8	77
					3	"	19	76
		75.61						
3		2.9	Very loose, brown to grey SILTY SAND to SANDY SILT, trace organics.		4	"	1	75
4					5	"	WR	74
		73.79						
5		4.72	Firm to very stiff, grey/ brown ORGANIC SILT, trace clay, trace shells, and weed fragments, with occasional layers up to 150 mm thick of sand, trace to some silt.		6	"	3	73
6					7	75 mm TO	PH	72
7								
8					8	50 mm D.O.	4	71
9					9	76 mm TO	PH	70
								69
10		67.81						
		10.7	CONTINUED ON NEXT SHEET		10	50 mm D.O.	2	68
11								

DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m

SHEAR STRENGTH Cu, kPa nat. V. – + Q. – ● rem. V. – ⊕ U. – ○

20 40 60 80

HYDRAULIC CONDUCTIVITY, k, cm/sec. 1x10 1x10 1x10 1x10

WATER CONTENT, PERCENT Wp W WL

20 40 60 80

>96

ADDITIONAL LAB. TESTING: MH; ORG = 12%

PIEZOMETER OR STANDPIPE INSTALLATION: G.S.; BACKFILL; BENTONITE SEAL; CAVED MATERIAL

15 0 5 PERCENT AXIAL STRAIN AT FAILURE 10

VERTICAL SCALE 1:50 (METRIC)

DRAWN CMM/RM

CHECKED AP

Golder Associates

RECORD OF BOREHOLE 1

SHEET 2 OF 2

LOCATION See Figure 2 BORING DATE AUGUST 21, 1986 DATUM GEODETIC

SAMPLER HAMMER, 63.5 kg.; DROP, 760 mm PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE, METRES	BORING METHOD	ELEV'N. / DEPTH (m)	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/0.3m	ELEVATION SCALE
11			CONTINUED FROM PREVIOUS SHEET					
	CME 55 POWER AUGER / HOLLOW STEM POWER AUGER		Very stiff, grey brown ORGANIC SILT, trace wood and shells interlayered with loose, grey SAND with 50 m shells and SILTY SAND.		10	50 mm D.O.	2	67
12					11	"	6	66
13								65
14		64.41			12	"	9	
		14.1	Hard, grey silty clay with some gravel (shale fragments). Boulder encountered at 14.5 m depth. TILL					64
15					13	"	32	63
		62.66						
		15.85	END OF HOLE REFUSAL TO AUGERING. PROBABLE BEDROCK.					62
16								
17								

DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m

SHEAR STRENGTH Cu, kPa nat. V.-+ Q.-● rem. V.-⊕ U.-○

HYDRAULIC CONDUCTIVITY, k, cm/sec. 1x10 1x10 1x10 1x10

WATER CONTENT, PERCENT Wp W WL 20 40 60 80

ADDITIONAL LAB. TESTING

PIEZOMETER OR STANDPIPE INSTALLATION

CAVED MATERIAL

PEA GRAVEL FILTER

PIEZOMETER

WATER LEVEL IN PIEZOMETER AT ELEVATION 74.4 m ON SEPTEMBER 2, 1986.

15 10 5 0 PERCENT AXIAL STRAIN AT FAILURE

VERTICAL SCALE 1:50 (METRIC)

Golder Associates

DRAWN CMM/RM

CHECKED MC

RECORD OF BOREHOLE 2

SHEET 1 OF 2

LOCATION See Figure 2 BORING DATE AUGUST 21, 1986 DATUM GEODETIC

SAMPLER HAMMER, 63.5 kg.; DROP, 760 mm PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

ELEV'N. / DEPTH (m)	DESCRIPTION	NUMBER	TYPE	BLOWS/0.3m
78.58 / 0.0	GROUND SURFACE			
	Compact, brown silty sand, trace gravel, occasional zones of grey clayey silt. FILL	1	50 mm D.O.	26
		2	"	12
76.48 / 2.1	Loose to compact mottled grey SANDY SILT to SILTY SAND, some gravel, trace organic, occ. wood fragments. FILL	3	"	21
		4	"	7
74.88 / 3.7	Very loose, grey SILT to SANDY SILT, trace organics, occasional gravel and wood fragment.	5	"	4
		6	"	2
72.48 / 6.1	Firm to stiff, dark grey/brown ORGANIC SILT, trace sand and shells, occasional wood fragment. Occasional sand layers below 8.5 m depth.	7	"	5
		8	"	<3
69.08 / 9.5	Compact, grey SAND, trace silt and shells.	9	"	5
		10	WS	-
	CONTINUED ON NEXT SHEET			

BORING METHOD: CME 55 POWER AUGER, HOLLOW STEM POWER AUGER

ELEVATION SCALE: 78, 77, 76, 75, 74, 73, 72, 71, 70, 69, 68

DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m

SHEAR STRENGTH Cu, kPa (20, 40, 60, 80) nat. V.- + Q.- ● rem. V.- ⊕ U.- ○

HYDRAULIC CONDUCTIVITY, k, cm/sec. (1x10 1x10 1x10 1x10)

WATER CONTENT, PERCENT Wp W WL (20, 40, 60, 80)

ADDITIONAL LAB. TESTING: MH

PIEZOMETER OR STANDPIPE INSTALLATION

15 ○ 5 PERCENT AXIAL STRAIN AT FAILURE 10

VERTICAL SCALE 1:50 (METRIC)

DRAWN CMM/RM

CHECKED AH

Golder Associates

RECORD OF BOREHOLE 2

LOCATION See Figure 2 BORING DATE AUGUST 21, 1986 DATUM GEODETIC

SAMPLER HAMMER, 63.5 kg.; DROP, 760 mm PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE, METRES	BORING METHOD	SOIL PROFILE: ELEV'N. / DEPTH (m)	SOIL PROFILE: DESCRIPTION	STRATA PLOT	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	ELEVATION SCALE
11			CONTINUED FROM PREVIOUS SHEET					67
12	CME 55 POWER AUGER HOLLOW STEM POWER AUGER	66.03	Compact, grey SAND, trace silt and shells.		11	50 mm D.O.	10	66
13		12.55	Compact, inter-layered, grey SILTY SAND, trace to some gravel and ORGANIC SILT, trace wood and shells.		12	"	11	65
14		63.68						64
15		14.9	Hard, grey silty clay and gravel. TILL		13	"	32	63
16		62.58						62
		16.0	END OF HOLE REFUSAL TO AUGERING. PROBABLE BEDROCK					
17								

DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m

SHEAR STRENGTH Cu, kPa nat. V.- + Q.- ● rem. V.- ⊕ U.- ○

HYDRAULIC CONDUCTIVITY, k, cm/sec. 1x10 1x10 1x10 1x10

WATER CONTENT, PERCENT Wp W WL 20 30 40 60

ADDITIONAL LAB. TESTING

PIEZOMETER OR STANDPIPE INSTALLATION

0 15 5 10 PERCENT AXIAL STRAIN AT FAILURE

VERTICAL SCALE 1:50 (METRIC)

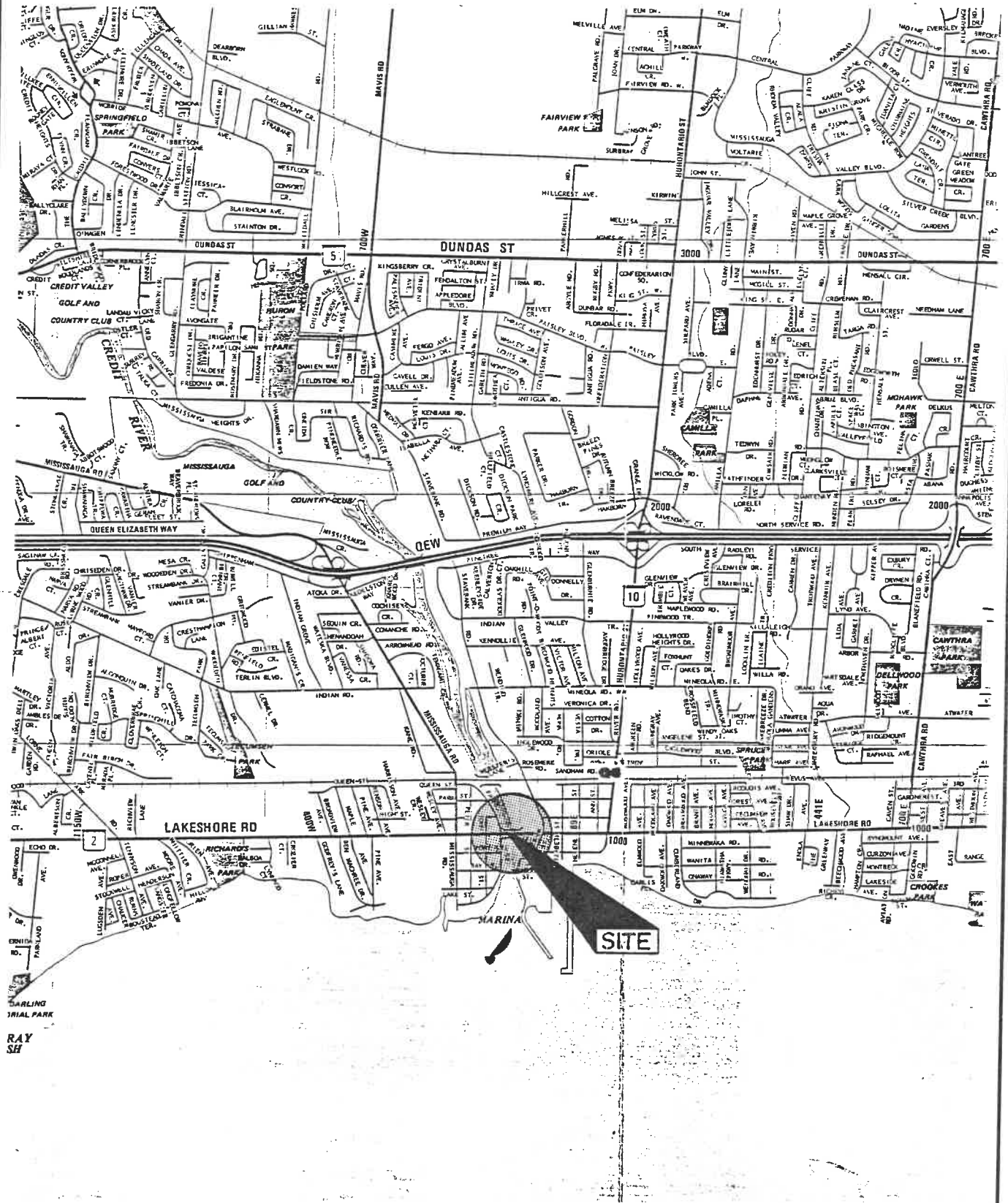
Golder Associates

DRAWN CMM/RM

CHECKED AP

SITE LOCATION PLAN

FIGURE 1



Date SEPT 16 1986

Project 861 1263

Golder Associates

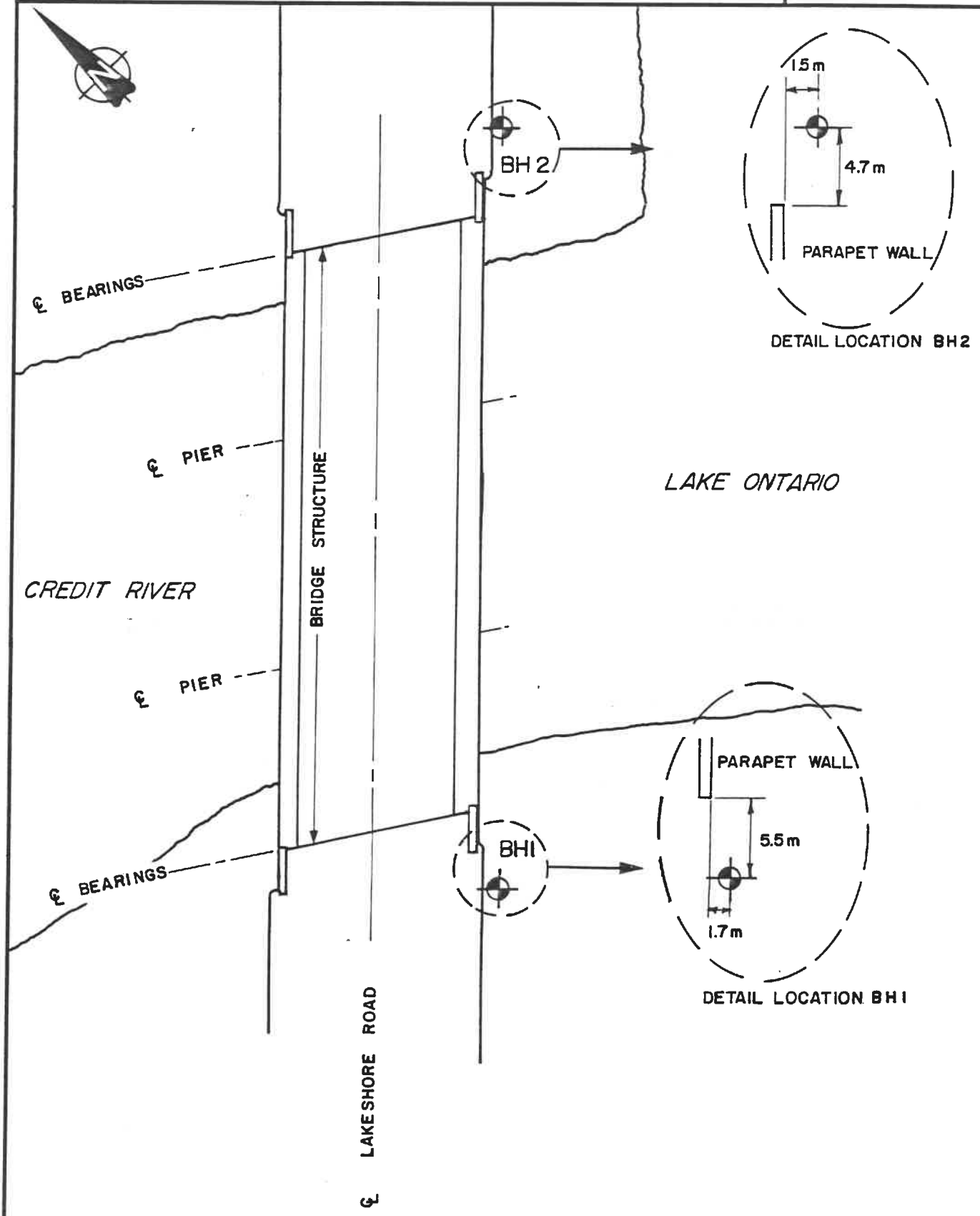
Drawn C. MURRAY

Chkd. ASP

FORM PRODUCED JUNE 1986

BOREHOLE LOCATION PLAN

FIGURE 2



Date SEPT. 16 1986

Project 861 1263

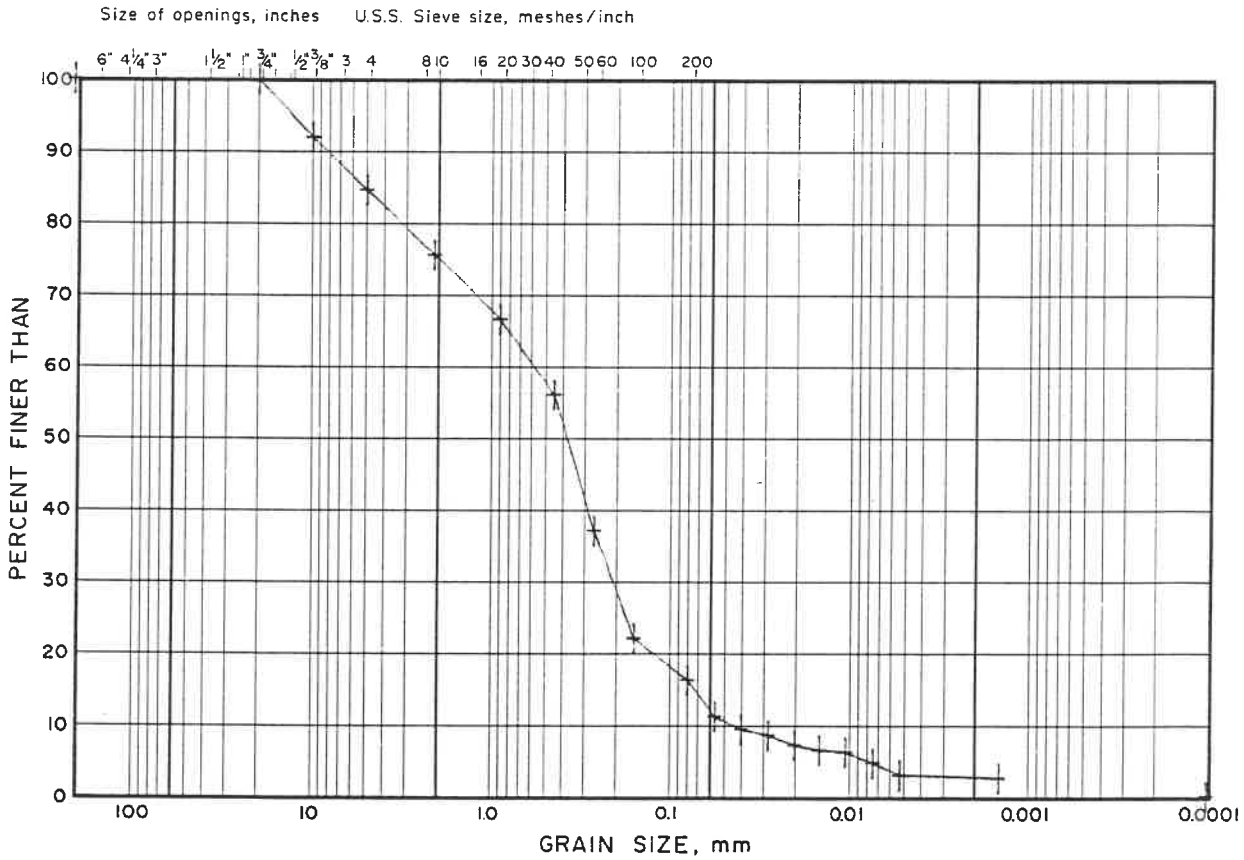
Golder Associates

Drawn C. MURRAY

Chkd. AJP

GRAIN SIZE DISTRIBUTION

FIGURE 3



COBBLE SIZE	GRAVEL SIZE			SAND SIZE			SILT SIZE	CLAY SIZE
	COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE	FINE GRAINED	

LEGEND

SYMBOL	BOREHOLE	SAMPLE	DEPTH (m)
+	1	2	1.7

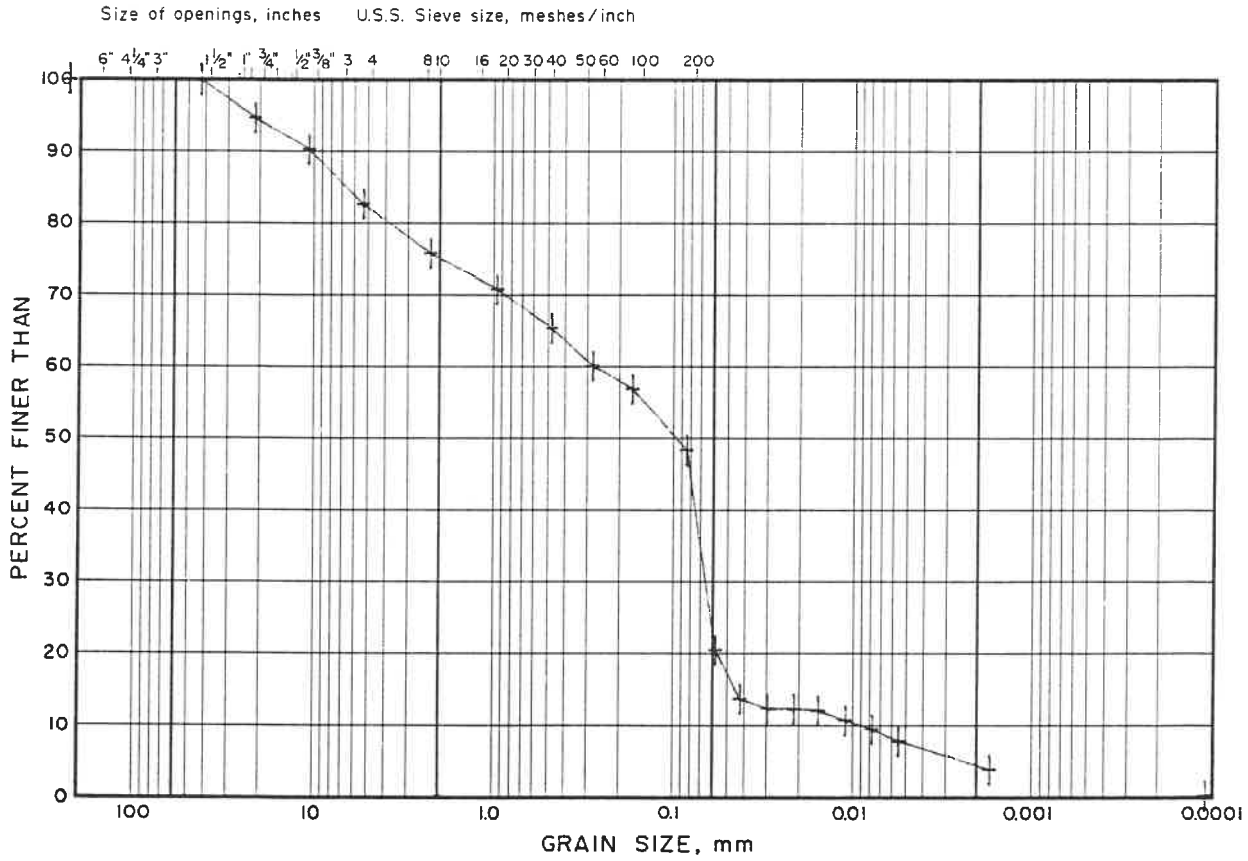
Project 861-1263

Golder Associates

FORM PRODUCED MAY 1986

GRAIN SIZE DISTRIBUTION

FIGURE 4



COBBLE SIZE	COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE	SILT SIZE	CLAY SIZE
	GRAVEL SIZE			SAND SIZE			FINE GRAINED	

LEGEND

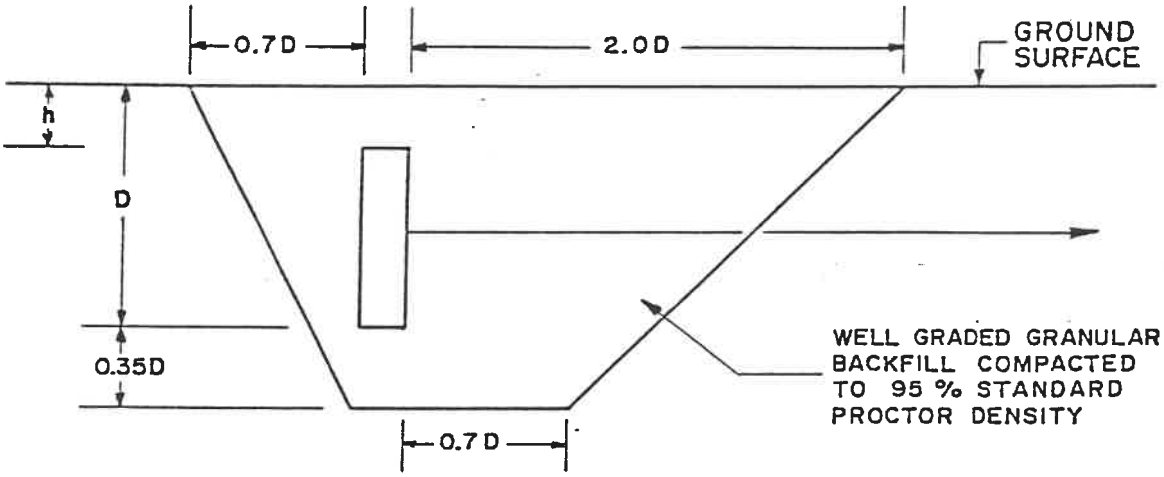
SYMBOL	BOREHOLE	SAMPLE	DEPTH (m)
+	2	3	2.4

Project 861-1263

Golder Associates

MINIMUM EXTENT OF REPLACEMENT FOR SHALLOW DEADMAN ANCHORAGE IN FILL

FIGURE 5



ASSUMPTIONS: 1. $h \leq D/3$
2. W.T. AT DEPTH $\geq D$

Date OCT. 1986
Project No. 861-1263

Golder Associates

Drawn C. M. M.
Chkd. ASP

SUPPLEMENTARY GEOTECHNICAL INVESTIGATION, LAKESHORE ROAD BRIDGE OVER CREDIT RIVER, PORT CREDIT, ON (PROJECT NO. 86112631) DATED DECEMBER 1986

LIST OF ABBREVIATIONS

The abbreviation commonly employed on each "Record of Borehole," on the figures and in the text of the report, are as follows:

I. SAMPLE TYPES

AS auger sample
CS chunk sample
DO drive open
DS Denison type sample
FS foil sample
RC rock core
ST slotted tube
TO thin-walled, open
TP thin-walled, piston
WS wash sample

II. PENETRATION RESISTANCES

Dynamic Penetration Resistance:

The number of blows by a 63.6 kg (140 lb) hammer dropped 760 mm (30 in.) to drive uncased a 50 mm (2 in.) diameter, 60° cone attached to "A" size drill rods for a distance of 0.3 m (12 in.).

Standard Penetration Resistance, *N*:

The number of blows by a 63.6 kg (140 lb) hammer dropped 760 mm (30 in.) required to drive a 50 mm (2 in.) drive open sampler for a distance of 0.3 m (12 in.).

WH sampler advanced by static weight—weight, hammer

PH sampler advanced by pressure—pressure, hydraulic

PM sampler advanced by pressure—pressure, manual

III. SOIL DESCRIPTION

(a) *Cohesionless Soils*

Relative Density	*'N'* Blows/0.30m or Blows/ft.
Very loose	0 to 4
Loose	4 to 10
Compact	10 to 30
Dense	30 to 50
Very dense	over 50

(b) *Cohesive Soils*

Consistency	*'Cu'* kPa	*'Cu'* psf.
Very soft	0 to 12	0 to 250
Soft	12 to 25	250 to 500
Firm	25 to 50	500 to 1000
Stiff	50 to 100	1000 to 2000
Very stiff	100 to 200	2000 to 4000
Hard	over 200	over 4000

IV. SOIL TESTS

C consolidation test
H hydrometer analysis
M sieve analysis
MH combined analysis, sieve and hydrometer[1]
Q undrained triaxial[2]
R consolidated undrained triaxial[2]
S drained triaxial
U unconfined compression
V field vane test

NOTES:
[1]Combined analyses when 5 to 95 per cent of the material passes the No. 200 sieve.
[2]Undrained triaxial tests in which pore pressures are measured are shown as $\bar{Q}$ or $\bar{R}$.

Form...G.A.-R-1 (m)

LIST OF SYMBOLS

I. GENERAL

π = 3.1416

e = base of natural logarithms 2.7183

$\log_e a$ or $\ln a$, natural logarithm of a

$\log_{10} a$ or $\log a$, logarithm of a to base 10

t	time
g	acceleration due to gravity
V	volume
W	weight
M	moment
F	factor of safety

II. STRESS AND STRAIN

u	pore pressure
σ	normal stress
σ'	normal effective stress ($\bar{\sigma}$ is also used)
τ	shear stress
ϵ	linear strain
ϵ_{xy}	shear strain
ν	Poisson's ratio (μ is also used)
E	modulus of linear deformation (Young's modulus)
G	modulus of shear deformation
K	modulus of compressibility
η	coefficient of viscosity

III. SOIL PROPERTIES

(a) *Unit weight*

γ	unit weight of soil (bulk density)
γ_s	unit weight of solid particles
γ_w	unit weight of water
γ_d	unit dry weight of soil (dry density)
γ'	unit weight of submerged soil
G_s	specific gravity of solid particles $G_s = \gamma_s/\gamma_w$
e	void ratio
n	porosity
w	water content
S_r	degree of saturation

(b) *Consistency*

w_L	liquid limit
w_P	plastic limit
I_P	plasticity index
w_S	shrinkage limit
I_L	liquidity index $= (w - w_P)/I_P$
I_C	consistency index $= (w_L - w)/I_P$
e_{max}	void ratio in loosest state
e_{min}	void ratio in densest state
D_r	relative density $= (e_{max} - e)/(e_{max} - e_{min})$

(c) *Permeability*

h	hydraulic head or potential
q	rate of discharge
v	velocity of flow
i	hydraulic gradient
k	coefficient of permeability
j	seepage force per unit volume

(d) *Consolidation (one-dimensional)*

m_v	coefficient of volume change $= -\Delta e/(1+e)\Delta\sigma'$
C_c	compression index $= -\Delta e/\Delta \log_{10} \sigma'$
c_v	coefficient of consolidation
T_v	time factor $= c_v t/d^2$ (d, drainage path)
U	degree of consolidation

(e) *Shear strength*

τ_f	shear strength	
c'	effective cohesion intercept	in terms of effective stress $\tau_f = c' + \sigma' \tan \phi'$
ϕ'	effective angle of shearing resistance, or friction	
c_u	apparent cohesion*	in terms of total stress $\tau_f = c_u + \sigma \tan \phi_u$
ϕ_u	apparent angle of shearing resistance, or friction	
μ	coefficient of friction	
S_t	sensitivity	

*For the case of a saturated cohesive soil, $\phi_u = 0$ and the undrained shear strength $\tau_f = c_u$ is taken as half the undrained compressive strength.

Form... G.A.-R-2 (m)

RECORD OF BOREHOLE 101

LOCATION See Figure 2 BORING DATE NOVEMBER 5, 1986 DATUM GEODETIC

SAMPLER HAMMER, 63.5 kg.; DROP, 760 mm PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE, METRES	BORING METHOD	ELEV'N. / DEPTH (m)	DESCRIPTION	NUMBER	TYPE	BLOWS/0.3m	ELEVATION SCALE
0	CME 55 POWER AUGER HOLLOW STEM POWER AUGER	76.62 / 0.00	GROUND SURFACE				76
			Loose brown silty sand, occ. pocket of clayey silt, occ. organics, grading to a mixture of clay, silt, sand and gravel: oil odour. Occasional cobble. FILL	1	50 mm D.O.	10	
1				2	"	10	75
		74.64 / 1.98	Compact, grey to black layered sand, sand and gravel, silty clay, fibrous organic silt and silty clay with gravel.	3	"	17	74
2							
3		73.54 / 3.08		4	"	6	73
			Firm to stiff, grey/brown to brown ORGANIC SILT, trace clay, trace shell and wood/ plant fragments. Occasional fine sand partings and organic sand layers below 7.5 m depth.	5	"	5	72
4							
5							71
6							70
7							
				6	"	6	69
8							
		67.52 / 9.10	Compact, grey SAND, trace silt & gravel with numerous shells.	7	"	19	68
9		67.02 / 9.60	END OF HOLE				
							67
10							
							66
11							

DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m

SHEAR STRENGTH Cu, kPa (20 40 60 80) nat. V. – + Q. – ● rem. V. – ⊕ U. – ○

HYDRAULIC CONDUCTIVITY, k, cm/sec. (1x10 1x10 1x10 1x10)

WATER CONTENT, PERCENT Wp W WL (20 40 60 80)

ADDITIONAL LAB. TESTING

PIEZOMETER OR STANDPIPE INSTALLATION

15 0 5 10 PERCENT AXIAL STRAIN AT FAILURE

VERTICAL SCALE 1:50 (METRIC)

Golder Associates

DRAWN TMG/RM

CHECKED RSP

RECORD OF BOREHOLE 102

LOCATION See Figure 2 BORING DATE NOVEMBER 6, 1986 DATUM GEODETIC

SAMPLER HAMMER, 63.5 kg.; DROP, 760 mm PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE, METRES	BORING METHOD	ELEV'N. / DEPTH (m)	DESCRIPTION	NUMBER	TYPE	BLOWS/0.3m
		76.20 / 0.00	GROUND SURFACE			
		0.05	ASPHALT			
			Brown sand, some gravel. FILL			
		75.00 / 1.20	Compact, brown to grey layered SAND and SILTY SAND, trace shells and organics.	1	50 mm D.O.	16
		74.30 / 1.90		2	"	3
				3	"	4
	CME 55 POWER AUGER / HOLLOW STEM POWER AUGER		Soft to stiff, grey/brown to brown ORGANIC SILT, trace clay, trace shell and wood/ plant fragments. Interlayered with 50 mm thick seams of fine to coarse sand, some organics and shells below 7.5 m depth.	4	"	4
				5	"	5
		67.10 / 9.10	Interlayered stiff, brown ORGANIC SILT, trace shell fragments & SILTY SAND with numerous shells. Layers about 50 mm thick.	6	"	5
		65.84 / 10.36	END OF HOLE			

ELEVATION SCALE: 76, 75, 74, 73, 72, 71, 70, 69, 68, 67, 66

DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m

SHEAR STRENGTH Cu, kPa — nat. V. – + Q. – ● rem. V. – ⊕ U. – ○ — 20 40 60 80

HYDRAULIC CONDUCTIVITY, k, cm/sec. — 1x10 1x10 1x10 1x10

WATER CONTENT, PERCENT — Wp W WL — 20 40 60 80

>96.4

ADDITIONAL LAB. TESTING

PIEZOMETER OR STANDPIPE INSTALLATION

15 0 10 5 PERCENT AXIAL STRAIN AT FAILURE

VERTICAL SCALE 1:50 (METRIC)

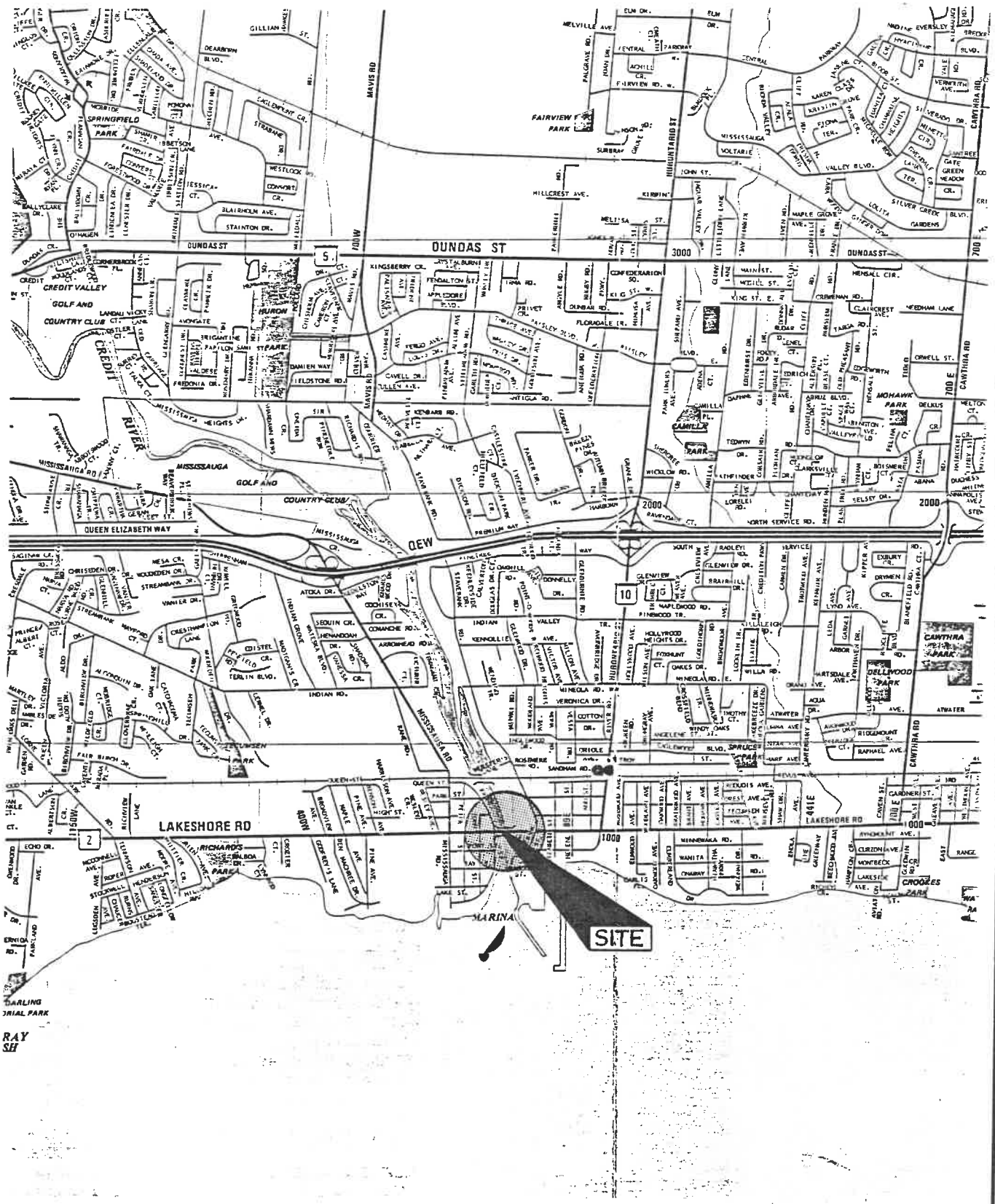
Golder Associates

DRAWN TMG/RM

CHECKED RM

SITE LOCATION PLAN

FIGURE 1



Date SEPT 16 1986

Project 861 1263

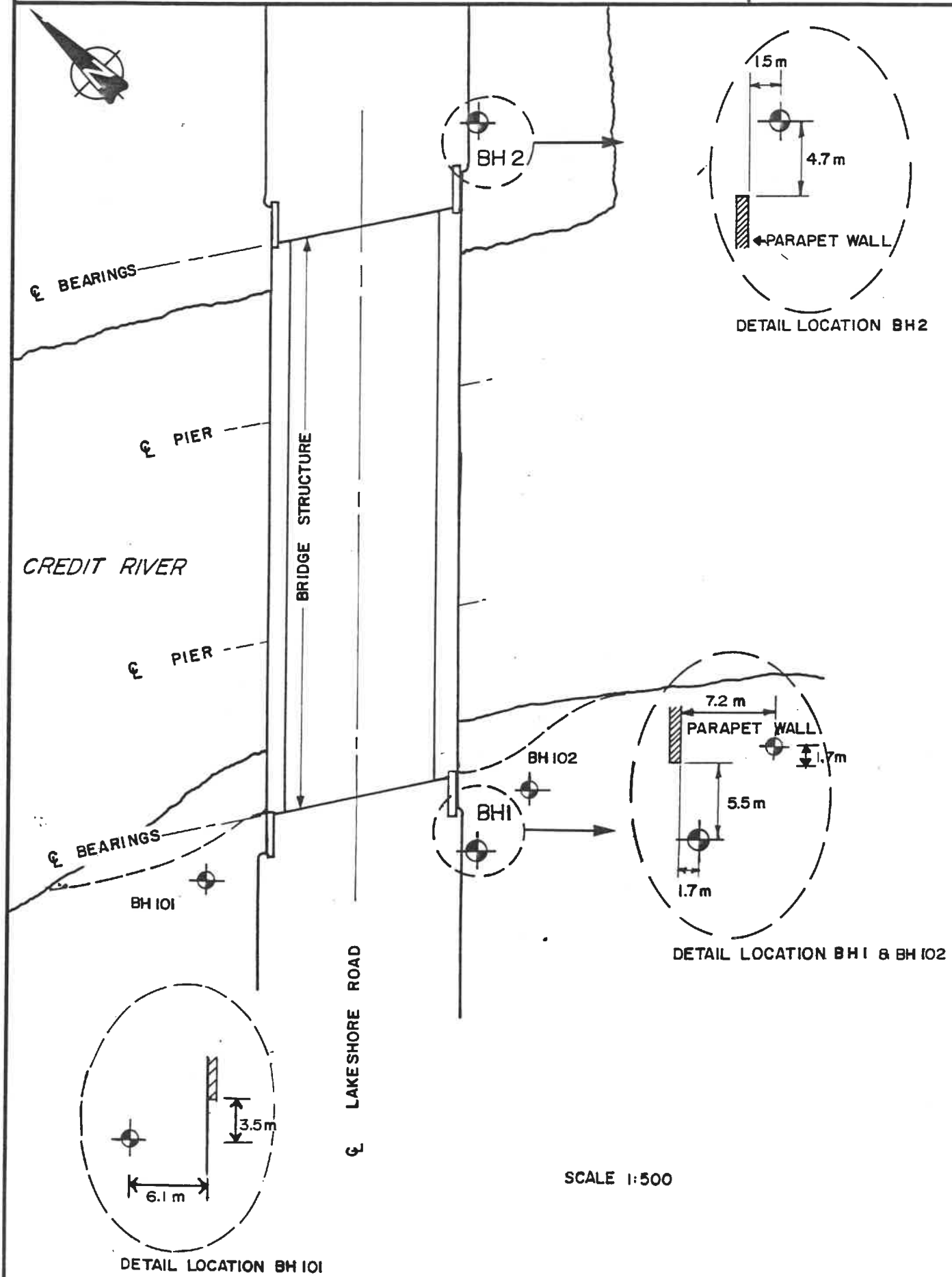
Golder Associates

Drawn C. MURRAY

Chkd. ASP

BOREHOLE LOCATION PLAN

FIGURE 2



Date SEPT. 16 1986

Project 861-1263-1

Golder Associates

Drawn TMG

Chkd. AJP

GEOTECHNICAL INVESTIGATION, PROPOSED FORCEMAIN, PORT CREDIT, ONTARIO, (PROJECT NO. 89113231), DATED NOVEMBER 1991

LIST OF SYMBOLS

I. GENERAL

$\pi = 3.1416$

e = base of natural logarithms 2.7183

$\log_e a$ or $\ln a$, natural logarithm of a

$\log_{10} a$ or $\log a$, logarithm of a to base 10

t	time
g	acceleration due to gravity
V	volume
W	weight
M	moment
F	factor of safety

II. STRESS AND STRAIN

u	pore pressure
σ	normal stress
σ'	normal effective stress ($\bar{\sigma}$ is also used)
τ	shear stress
ϵ	linear strain
ϵ_{xy}	shear strain
ν	Poisson's ratio (μ is also used)
E	modulus of linear deformation (Young's modulus)
G	modulus of shear deformation
K	modulus of compressibility
η	coefficient of viscosity

III. SOIL PROPERTIES

(a) *Unit weight*

γ	unit weight of soil (bulk density)
γ_s	unit weight of solid particles
γ_w	unit weight of water
γ_d	unit dry weight of soil (dry density)
γ'	unit weight of submerged soil
G_s	specific gravity of solid particles $G_s = \gamma_s/\gamma_w$
e	void ratio
n	porosity
w	water content
S_r	degree of saturation

(b) *Consistency*

w_L	liquid limit
w_P	plastic limit
I_P	plasticity index
w_S	shrinkage limit
I_L	liquidity index $= (w - w_P)/I_P$
I_C	consistency index $= (w_L - w)/I_P$
e_{max}	void ratio in loosest state
e_{min}	void ratio in densest state
D_r	relative density $= (e_{max} - e)/(e_{max} - e_{min})$

(c) *Permeability*

h	hydraulic head or potential
q	rate of discharge
v	velocity of flow
i	hydraulic gradient
k	coefficient of permeability
j	seepage force per unit volume

(d) *Consolidation (one-dimensional)*

m_v	coefficient of volume change $= -\Delta e/(1+e)\Delta\sigma'$
C_c	compression index $= -\Delta e/\Delta \log_{10} \sigma'$
c_v	coefficient of consolidation
T_v	time factor $= c_v t/d^2$ (d, drainage path)
U	degree of consolidation

(e) *Shear strength*

τ_f	shear strength	
c'	effective cohesion intercept	in terms of effective stress $\tau_f = c' + \sigma' \tan \phi'$
ϕ'	effective angle of shearing resistance, or friction	
c_u	apparent cohesion*	in terms of total stress $\tau_f = c_u + \sigma \tan \phi_u$
ϕ_u	apparent angle of shearing resistance, or friction	
μ	coefficient of friction	
S_t	sensitivity	

*For the case of a saturated cohesive soil, $\phi_u = 0$ and the strength $\tau_f = c_u$ is taken as half the undrained compressive strength.

LIST OF ABBREVIATIONS

The abbreviation commonly employed on each "Record of Borehole," on the figures and in the text of the report, are as follows:

I. SAMPLE TYPES

AS auger sample
CS chunk sample
DO drive open
DS Denison type sample
FS foil sample
RC rock core
ST slotted tube
TO thin-walled, open
TP thin-walled, piston
WS wash sample

II. PENETRATION RESISTANCES

Dynamic Penetration Resistance:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) to drive uncased a 50 mm (2 in.) diameter, 60° cone attached to "A" size drill rods for a distance of 0.3 m (12 in.).

Standard Penetration Resistance, *N*:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) required to drive a 50 mm (2 in.) drive open sampler for a distance of 0.3 m (12 in.).

WH sampler advanced by static weight—weight, hammer

PH sampler advanced by pressure—pressure, hydraulic

PM sampler advanced by pressure—pressure, manual

III. SOIL DESCRIPTION

(a) *Cohesionless Soils*

Relative Density	'N' Blows/0.30m or Blows/ft.
Very loose	0 to 4
Loose	4 to 10
Compact	10 to 30
Dense	30 to 50
Very dense	over 50

(b) *Cohesive Soils*

Consistency	'Cu' kPa	'Cu' psf.
Very soft	0 to 12	0 to 250
Soft	12 to 25	250 to 500
Firm	25 to 50	500 to 1000
Stiff	50 to 100	1000 to 2000
Very stiff	100 to 200	2000 to 4000
Hard	over 200	over 4000

IV. SOIL TESTS

C consolidation test
H hydrometer analysis
M sieve analysis
MH combined analysis, sieve and hydrometer[1]
Q undrained triaxial[2]
R consolidated undrained triaxial[2]
S drained triaxial
U unconfined compression
V field vane test

NOTES:
[1]Combined analyses when 5 to 95 per cent of the material passes the No. 200 sieve.
[2]Undrained triaxial tests in which pore pressures are measured are shown as $\bar{Q}$ or $\bar{R}$.

PROJECT: 891-1323

LOCATION: SEE FIGURE 2

SAMPLER HAMMER, 63.5kg; DROP, 760mm

RECORD OF BOREHOLE 1

BORING DATE: JAN. 9,1991

SHEET 1 OF 1

DATUM: GEODETIC

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m; SHEAR STRENGTH Cu, kPa (nat.V - +, Q - ●; rem.V - ⊕, U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s; WATER CONTENT, PERCENT (Wp, W, Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	POWER AUGER BORING / SOLID STEM AUGERS	GROUND SURFACE		77.70							
		CONCRETE SLAB		0.15							CONCRETE
1		Compact to very dense, brown to grey SAND, trace to some gravel.			1	50 DO	26		○		
					2	50 DO	65/.13				
2				75.57 2.13							
		Loose, grey SAND and SILT with amorphous organic material.			3	50 DO	7		○		29/1/91
3				74.81 2.89							BENTONITE SEAL
					4	50 DO	1		○	MH	
4					5	50 DO	5			DRG= 1.4%	
		Very loose to loose, grey SILTY SAND, trace gravel with amorphous organic material and roots.			6	50 DO	7				PEA GRAVEL
5					7	50 DO	4				
6					8	50 DO	6			>56.0	
7				70.54 7.16							CAVED
		Loose, dark brown SILTY SAND with amorphous and fibrous PEAT.			9	50 DO	7			>110	
8				69.62 8.08							
		END OF BOREHOLE									PIEZOMETER DRY ON JAN. 18/91.
9											WATER LEVEL IN PIEZOMETER AT ELEV.75.3 m ON JAN.28,1991
10											

15 (0, 10) 5 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JAN. 22/91

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: MK

CHECKED: MRA

PROJECT: 891-1323

LOCATION: SEE FIGURE 2

SAMPLER HAMMER, 63.5kg; DROP, 760mm

RECORD OF BOREHOLE 2

BORING DATE: JAN. 9,1991

SHEET 1 OF 1

DATUM: GEODETIC

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m; SHEAR STRENGTH Cu, kPa (nat.V - +, rem.V - ⊕, Q - ●, U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s; WATER CONTENT, PERCENT (Wp, W, Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	POWER AUGER BORING; SOLID STEM AUGERS	GROUND SURFACE		79.73							
		CONCRETE SLAB		0.15							CONCRETE
1		Compact, brown with yellow lenses SILTY SAND.			1	50 DO	12				
				78.36							
				1.37							
2		Compact, grey and brown SILT with sand partings.			2	50 DO	12				
				77.60							
				2.13							
		Compact, grey SILT and SAND with amorphous organic material.			3	50 DO	18				
				77.14							
3				2.59							
		Very stiff, grey CLAYEY SILT, trace sand.			4	50 DO	29				
				76.08							
4				3.65							BACKFILL
					5	50 DO	7				
					6	50 DO	20				
5					7	50 DO	19			MH	
		Very stiff, grey SILTY CLAY, trace to some sand and gravel (TILL)			8	50 DO	17				BENTONITE SEAL
6											
7					9	50 DO	29				
8											PEA GRAVEL
				71.05							
				8.68							
9		Hard, grey CLAYEY SILT, trace sand and gravel. (TILL)			10	50 DO	53				CAVED
				70.13							
		END OF BOREHOLE		9.60							PIEZOMETER DRY ON JAN. 18/91 AND ON JAN.29,1991
10											

0 15 10 5 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JAN. 22/91

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: MK

CHECKED: MRA

PROJECT: 891-1323

LOCATION: SEE FIGURE 2

SAMPLER HAMMER, 63.5kg; DROP, 760mm

RECORD OF BOREHOLE 3

BORING DATE: JAN. 10,1991

SHEET 1 OF 1

DATUM: GEODETIC

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m; SHEAR STRENGTH Cu, kPa (nat.V - +, Q - ●, rem.V - ⊕, U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s; WATER CONTENT, PERCENT (Wp, W, Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	POWER AUGER BORING; SOLID STEM AUGERS	GROUND SURFACE		79.59							
		CONCRETE SLAB		0.15							CONCRETE
1		Loose, brown SILTY SAND, trace gravel.			1	50 DO	10		○		
				78.22							
				1.37							
2		Loose, brown SANDY SILT, trace gravel.			2	50 DO	4		○		
				77.15							
				2.44	3	50 DO	5				
3											
					4	50 DO	18		○		BACKFILL
4		Loose to compact, grey SILT with sand partings.			5	50 DO	21				
				74.72	6	50 DO	16		○		
5				4.87							
					7	50 DO	14		○		
6											
					8	50 DO	27				BENTONITE SEAL
7		Very stiff to hard, grey SILTY CLAY, some sand and gravel (TILL)									
					9	50 DO	55				PEA GRAVEL
8											
9					10	50 DO	57/.42		○		CAVED
				69.99							
		END OF BOREHOLE		9.60							PIEZOMETER DRY ON JAN. 18/91 AND ON JAN.29,1991
10											

15 ◇ 10 5 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JAN. 22/91

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: MK

CHECKED: MRA

PROJECT: 891-1323

RECORD OF BOREHOLE 4

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: JAN. 9,1991

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m
0	POWER AUGER BORING; SOLID STEM AUGERS	GROUND SURFACE		78.13			
		CONCRETE SLAB		0.15			
1		Loose, brown SAND and SILT, trace gravel.			1	50 DO	5
				76.76 / 1.37			
2		Compact, dark brown and grey SILT, some sand, trace gravel and organic material.			2	50 DO	10
				76.00 / 2.13			
		Very stiff, brown SILTY CLAY, some sand and gravel. (TILL)			3	50 DO	18
3				75.24 / 2.89			
		Hard, grey SILTY CLAY, trace to some sand and gravel (TILL)			4	50 DO	52
4					5	50 DO	60/.15
					6	50 DO	49
5					7	50 DO	58
6					8	50 DO	31
		END OF BOREHOLE		71.58 / 6.55			
7							
8							
9							
10							

DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m

SHEAR STRENGTH Cu, kPa — nat.V - + Q - ● rem.V - ⊕ U - ○

HYDRAULIC CONDUCTIVITY, k, cm/s

WATER CONTENT, PERCENT — Wp W Wl — 10 20 30 40

ADDITIONAL LAB. TESTING

PIEZOMETER OR STANDPIPE INSTALLATION

CONCRETE

BACKFILL

BENTONITE SEAL

29/1/91

PEA GRAVEL

18/1/91

CAVED

WATER LEVEL IN PIEZOMETER AT ELEV. 72.42m ON JAN. 18/91.

WATER LEVEL AT ELEV. 74.33 m ON JAN.29,1991

15 0 5 10 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JAN. 22/91

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: MK

CHECKED: MRA

PROJECT: 891-1323

LOCATION: SEE FIGURE 2

SAMPLER HAMMER, 63.5kg; DROP, 760mm

RECORD OF BOREHOLE 5

BORING DATE: JAN. 14,1991

SHEET 1 OF 1

DATUM: GEODETIC

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m / SHEAR STRENGTH Cu, kPa (nat.V - +, Q - ●, rem.V - ⊕, U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s / WATER CONTENT, PERCENT (Wp, W, Wl)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	POWER AUGER BORING; SOLID STEM AUGERS	GROUND SURFACE		78.52							
		Brown sand, trace silt. (TOPSOIL)		0.15							
1		Stiff to hard, brown becoming grey SILTY CLAY, some sand and gravel (TILL)			1	50 DO	14				CONCRETE
2					2	50 DO	26				
3					3	50 DO	40				BACKFILL
4					4	50 DO	50				29/1/91
5					5	50 DO	54				BENTONITE SEAL
6					6	50 DO	49				
					7	50 DO	46				18/1/91
		Very stiff, grey SILTY CLAY, some sand and gravel. (TILL)		72.58 5.94	8	50 DO	17				PEA GRAVEL
7		END OF BOREHOLE		71.97 6.55							CAVED
8											WATER LEVEL IN PIEZOMETER AT ELEV. 73.11 m ON JAN. 18/91.
9											WATER LEVEL IN PIEZOMETER AT ELEV. 75.17 m ON JAN.29,1991
10											

15 (0, 5, 10) PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JAN. 22/91

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: MK

CHECKED: MRA

PROJECT: 891-1323

RECORD OF BOREHOLE 6

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: JAN. 10,1991

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m
0	POWER AUGER BORING; SOLID STEM AUGERS	GROUND SURFACE		78.67			
		PAVING STONES		0.05			
1		Loose, brown CLAYEY SILT, some sand, with organic material.			1	50 DO	4
				77.00 / 1.67	2	50 DO	28
2		Slight odor of petrolium in sample 2					
					3	50 DO	50/ .08
3					4	50 DO	51
4		Hard, grey SILTY CLAY, some sand and gravel, with a slab of weathered, grey shale from elev. 74.5 m to 74.25 m (TILL)			5	50 DO	70
					6	50 DO	56
5					7	50 DO	79
6					8	50 DO	52/ .05
				71.97 / 6.70			
7		Weathered, grey SHALE.					
				71.05 / 7.62		50 DO	60/ 0
		END OF BOREHOLE					
8							
9							
10							

DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m

SHEAR STRENGTH Cu, kPa — nat.V - + Q - ● rem.V - ⊕ U - ○

HYDRAULIC CONDUCTIVITY, k, cm/s

WATER CONTENT, PERCENT — Wp W Wl (10 20 30 40)

ADDITIONAL LAB. TESTING: MH

PIEZOMETER OR STANDPIPE INSTALLATION

CONCRETE

BACKFILL

BENTONITE SEAL

PEA GRAVEL

WATER LEVEL IN PIEZOMETER AT ELEV. 75.52 m ON JAN. 18/91 AND ON JAN. 29/91

15 (0 / 10) 5 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JAN. 22/91

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: MK

CHECKED: MRA

PROJECT: 891-1323

LOCATION: SEE FIGURE 2

SAMPLER HAMMER, 63.5kg; DROP, 760mm

RECORD OF BOREHOLE 7

BORING DATE: JAN. 11,1991

SHEET 1 OF 1

DATUM: GEODETIC

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m; SHEAR STRENGTH Cu, kPa (nat.V - +, rem.V - ⊕, Q - ●, U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s; WATER CONTENT, PERCENT (Wp, W, Wl)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	POWER AUGER BORING / SOLID STEM AUGERS	GROUND SURFACE		79.82							
		CONCRETE SLAB		0.15							CONCRETE
1		Clayey silt with organic material, brick fragments and mortar. (FILL)			1	50 DO	11				
				78.45							
				1.37							
2					2	50 DO	25				BACKFILL
3		Very stiff to hard, grey SILTY CLAY, some sand and gravel. (TILL)			3	50 DO	60				
					4	50 DO	51				BENTONITE SEAL
4					5	50 DO	52				
					6	50 DO	50/ .15				
5				74.64							PEA GRAVEL
				5.18	7	50 DO	60/ .10				
6		Weathered, grey SHALE.									
				73.67	8	50 DO	90/ .05				CAVED
		END OF BOREHOLE		6.15							PIEZOMETER BLOCKED AT ELEV. 77.23m ON JAN. 18/91 AND ON JAN. 29/91
7											
8											
9											
10											

0 15 10 5 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JAN. 22/91

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: MK

CHECKED: MRA

PROJECT: 891-1323

RECORD OF BOREHOLE 8

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: JAN. 14,1991

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m / SHEAR STRENGTH Cu, kPa (nat.V - +, rem.V - ⊕, Q - ●, U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s / WATER CONTENT, PERCENT (Wp, W, Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	POWER AUGER BORING; SOLID STEM AUGERS	GROUND SURFACE		81.19							
		TOPSOIL		0.15							
1		Dark brown to black ORGANIC SILT, trace to some sand.		79.82	1	50 DO	6				
		Soft, grey with black zones SILTY CLAY, some sand, trace gravel mixed with some organic material.		1.37	2	50 DO	3		○		CONCRETE
2				79.06							
		Hard, brown and grey SILTY CLAY, with sand and gravel. (TILL)		2.13	3	50 DO	47				
3				78.09							
		Very dense, grey SILT, some sand with occasional sand partings.		3.10	4	50 DO	62		○		
4					5	50 DO	47				
											BACKFILL
5					6	50 DO	34		○	MH	
		Hard, grey SILTY CLAY, with some sand and gravel. (TILL)		76.01 5.18							
				75.56	7	50 DO	83		○		
6		Very dense, grey SAND and GRAVEL, some silt, trace clay. (TILL)		5.63	8	50 DO	79				BENTONITE SEAL
7											PEA GRAVEL
											CAVED 18/1/91
				73.32	9	50 DO	50/.10		○		
8		END OF BOREHOLE		7.87							
9											
10											

WATER LEVEL IN PIEZOMETER AT ELEV. 73.69m ON JAN. 18/91.

WATER LEVEL IN PIEZOMETER AT ELEV. 74.33 m ON JAN. 29/91

15 (0 / 10) 5 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JAN. 22/91

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: MK

CHECKED: MRA

PROJECT: 891-1323

RECORD OF BOREHOLE 9

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: OCT.29,1991

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m; SHEAR STRENGTH Cu, kPa (nat.V - +, rem.V - ⊕, Q - ●, U - O)	HYDRAULIC CONDUCTIVITY, k, cm/s; WATER CONTENT, PERCENT (Wp, W, Wl; 10, 20, 30, 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	POWER AUGER BORING / SOLID STEM AUGERS	GROUND SURFACE		80.96							
		TOPSOIL		0.15							
1		Compact brown to black, sand and cinders, trace silt,some gravel,occasional brick fragments (FILL)		79.76	1	50 DO	10				
		Compact, brown silty sand to sandy silt, trace clay, trace organics, trace rootlets (FILL)		1.20	2	50 DO	11				
2		Hard, brown and grey stratified SILTY CLAY, trace sand.		78.86 2.10	3	50 DO	34				
3		Hard brown, SILTY CLAY, some sand, trace gravel, occasional grey silty clay pockets, occasional oxidized fissures (TILL)		78.06 2.90	4	50 DO	39				
		Very stiff to hard, grey stratified SILTY CLAY, trace sand, frequent silt and fine sand partings.		77.36 3.60	5	50 DO	27				
4											
5					6	50 DO	41				
				75.48							
6		Very dense, grey SILTY SAND and GRAVEL, trace clay. (TILL)		5.50	7	50 DO	60/ .08				
7					8	50 DO	60/ .05				
8				72.70	9	50 DO	60/ .03				WATER LEVEL IN OPEN HOLE AT ELEV. 72.8 m ON COMPLETION OF DRILLING.
		END OF BOREHOLE (AUGER REFUSAL)		8.26							
9											
10											

15 (0 / 10) 5 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: MHW,NOV.11/91

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: PS

CHECKED: AP

PROJECT: 891-1323

RECORD OF BOREHOLE 10

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: OCT.29,1991

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	SAMPLES NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m / SHEAR STRENGTH Cu, kPa (nat.V - + Q - ● rem.V - ⊕ U - O)	HYDRAULIC CONDUCTIVITY, k, cm/s / WATER CONTENT, PERCENT (Wp W Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	POWER AUGER BORING, SOLID STEM AUGERS	GROUND SURFACE		81.51							
		ASPHALT		0.08							
		Loose, brown, silty sand, trace clay, trace rootlets, trace organics (FILL)									
1				80.31 / 1.20	1	50 DO	6				
		Stiff to very stiff, brown, SILTY CLAY, some sand, trace to some gravel, occasional grey silty clay pockets (TILL)			2	50 DO	13				
2					3	50 DO	28				
3				78.46 / 3.05	4	50 DO	100				
		Very dense, brown SILTY SAND and GRAVEL, trace clay (TILL)			5	50 DO	60/ .15				
4					6	50 DO	60/ .08				
5				76.31 / 5.20							
6					7	50 DO	68				
7		Very dense, grey SAND and GRAVEL, trace to some silt, trace clay. (TILL)									
8					8	50 DO	62				
9					9	50 DO	95				
		END OF BOREHOLE		71.91 / 9.60							WATER LEVEL IN OPEN HOLE AT ELEV. 72.0 m ON COMPLETION OF DRILLING.
10											

15 ◆ 5 PERCENT AXIAL STRAIN AT FAILURE (0, 10)

DATA INPUT: MHW,NOV.11/91

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: PS

CHECKED: AP

PROJECT: 891-1323

RECORD OF BOREHOLE 11

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: OCT.31,1991

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m; SHEAR STRENGTH Cu, kPa (nat.V - +, rem.V - ⊕, Q - ●, U - O)	HYDRAULIC CONDUCTIVITY, k, cm/s; WATER CONTENT, PERCENT (Wp, W, Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	POWER AUGER BORING / SOLID STEM AUGERS	GROUND SURFACE		77.94							
		CONCRETE		0.00 / 77.74							CONCRETE AND CAP
		GRANULAR BASE		0.20 / 77.49							
		Compact to loose, brown to grey, silty sand, trace clay, trace to some gravel, occasional bricks, asphalt, trace cinders (FILL)		0.45	1	50 DO	26				
1											
					2	50 DO	6				
2											
					3	50 DO	5				BACKFILL
				75.04							
3		Loose, brown to grey, SANDY SILT, trace clay, frequent to occasional pockets of organic material, occasional shells and wood fragments, trace rootlets.		2.90	4	50 DO	6				BENTONITE SEAL
4					5	50 DO	6				
				73.54							
		Loose, black, fibrous PEAT, occasional shell fragments.		4.40	6	50 DO	7				PEA GRAVEL
5											
6				71.84							
		Very stiff, mottled green and grey, SILTY CLAY, some sand and gravel, occasional silty sand pockets (TILL LIKE)		6.10	7	50 DO	25				BENTONITE SEAL
				70.94							
7		Hard, brown, CLAYEY SILT, some sand and gravel, occasional silty sand and sandy silt pockets (TILL)		7.00							BACKFILL
8					8	50 DO	56				
9					9	50 DO	59				
				66.34							
		END OF BOREHOLE		9.60							WL IN OPEN HOLE AT ELEV. 75.5 m ON OCT.31,1991. PIEZOMETER DRY ON NOV.4,1991.
10											

15 (0 / 10) 5 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: MHW,NOV.11/91

DEPTH SCALE

1 to 50

Golder Associates

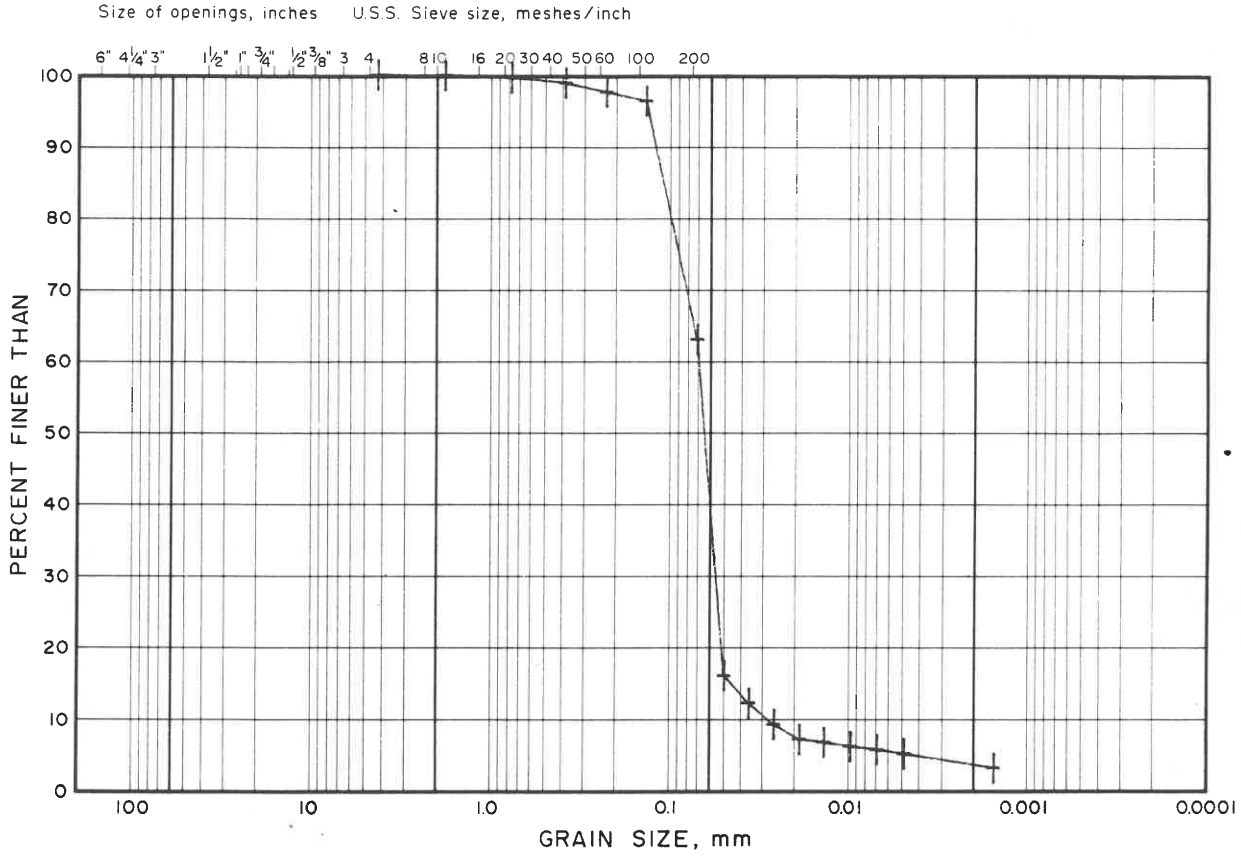
LOGGED: PS

CHECKED: AP

GRAIN SIZE DISTRIBUTION

FIGURE 5

SILTY SAND, with organic material



COBBLE SIZE	COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE	SILT SIZE	CLAY SIZE
	GRAVEL SIZE			SAND SIZE			FINE GRAINED	

LEGEND

SYMBOL	BOREHOLE	SAMPLE	ELEVATION (m)
+	1	4	74.64

Project 891-1323

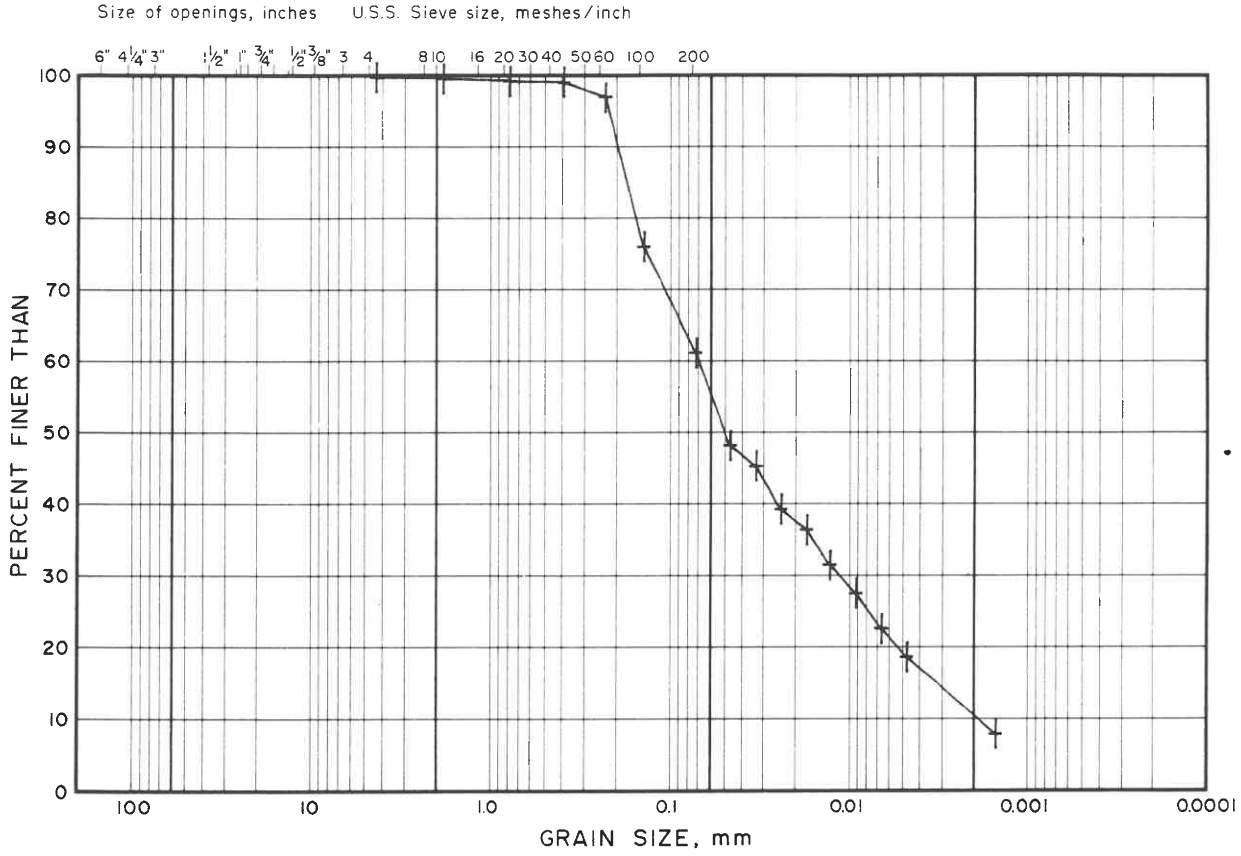
Golder Associates

FORM PRODUCED MAY 1986

GRAIN SIZE DISTRIBUTION

FIGURE 6

SILT, some sand, with sand partings



COBBLE SIZE	COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE	SILT SIZE	CLAY SIZE
	GRAVEL SIZE			SAND SIZE			FINE GRAINED	

LEGEND

SYMBOL	BOREHOLE	SAMPLE	ELEVATION (m)
+	8	6	76.39

Project 891-1323

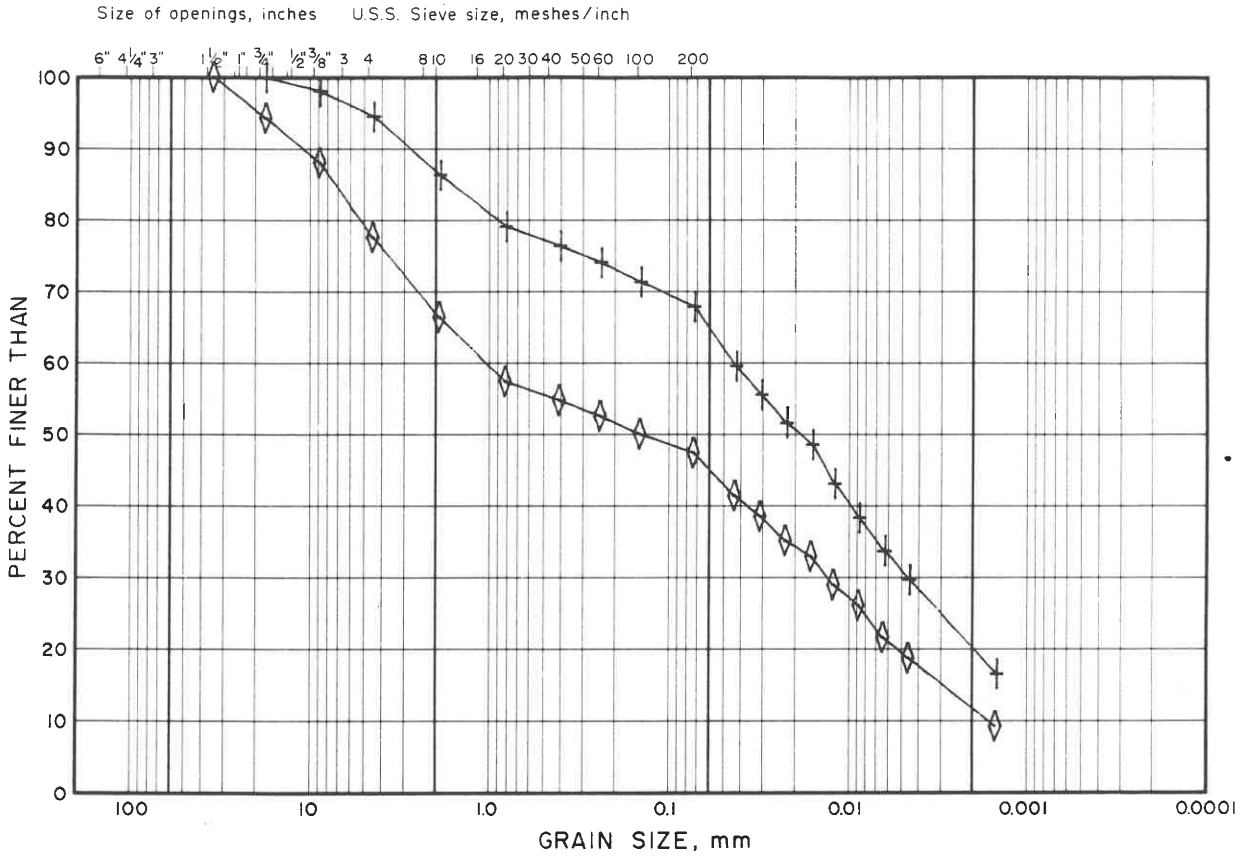
Golder Associates

FORM PRODUCED MAY 1986

GRAIN SIZE DISTRIBUTION

FIGURE 7

SILTY CLAY TILL



COBBLE SIZE	COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE	SILT SIZE	CLAY SIZE
	GRAVEL SIZE			SAND SIZE			FINE GRAINED	

LEGEND

SYMBOL	BOREHOLE	SAMPLE	ELEVATION (m)
+	2	7	74.38
◊	6	6	73.87

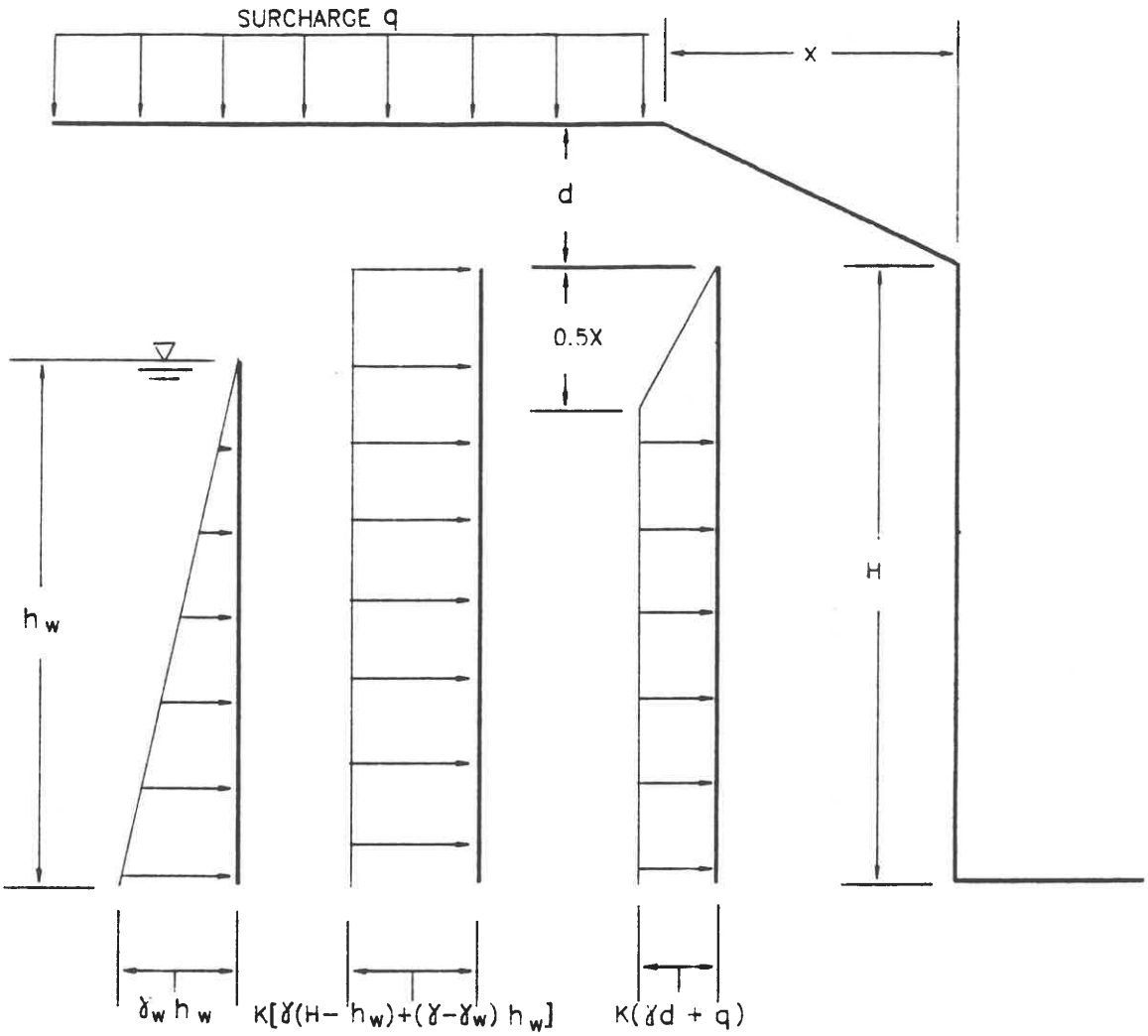
Project 891-1323

Golder Associates

FORM PRODUCED MAY 1986

DESIGN LATERAL EARTH PRESSURES FOR BRACED EXCAVATION IN GRANULAR SOILS

FIGURE 8



γ = UNIT WEIGHT OF SOIL

γ_w = UNIT WEIGHT OF WATER

K = EARTH PRESSURE COEFFICIENT

(REFER TO TEXT OF REPORT FOR DESIGN VALUES)

N.B. FOR HORIZONTAL GROUND BEHIND WALL, d = 0

Date FEB. 1990

Project 891-1323

Golder Associates

Drawn TDSR

Chkd

SUPPLEMENTARY GEOTECHNICAL INVESTIGATION, PROPOSED FORCEMAIN, PORT CREDIT, ONTARIO, (PROJECT NO. 89113232), DATED NOVEMBER 1991

LIST OF ABBREVIATIONS

The abbreviation commonly employed on each "Record of Borehole," on the figures and in the text of the report, are as follows:

I. SAMPLE TYPES

AS auger sample
CS chunk sample
DO drive open
DS Denison type sample
FS foil sample
RC rock core
ST slotted tube
TO thin-walled, open
TP thin-walled, piston
WS wash sample

II. PENETRATION RESISTANCES

Dynamic Penetration Resistance:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) to drive uncased a 50 mm (2 in.) diameter, 60° cone attached to "A" size drill rods for a distance of 0.3 m (12 in.).

Standard Penetration Resistance, *N*:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) required to drive a 50 mm (2 in.) drive open sampler for a distance of 0.3 m (12 in.).

WH sampler advanced by static weight—weight, hammer

PH sampler advanced by pressure—pressure, hydraulic

PM sampler advanced by pressure—pressure, manual

III. SOIL DESCRIPTION

(a) *Cohesionless Soils*

Relative Density	*'N'* Blows/0.30m or Blows/ft.
Very loose	0 to 4
Loose	4 to 10
Compact	10 to 30
Dense	30 to 50
Very dense	over 50

(b) *Cohesive Soils*

Consistency	*'Cu'* kPa	*'Cu'* psf.
Very soft	0 to 12	0 to 250
Soft	12 to 25	250 to 500
Firm	25 to 50	500 to 1000
Stiff	50 to 100	1000 to 2000
Very stiff	100 to 200	2000 to 4000
Hard	over 200	over 4000

IV. SOIL TESTS

C consolidation test
H hydrometer analysis
M sieve analysis
MH combined analysis, sieve and hydrometer[1]
Q undrained triaxial[2]
R consolidated undrained triaxial[2]
S drained triaxial
U unconfined compression
V field vane test

NOTES:
[1]Combined analyses when 5 to 95 per cent of the material passes the No. 200 sieve.
[2]Undrained triaxial tests in which pore pressures are measured are shown as $\bar{Q}$ or $\bar{R}$.

LIST OF SYMBOLS

I. GENERAL

$\pi = 3.1416$

e = base of natural logarithms 2.7183

$\log_e a$ or $\ln a$, natural logarithm of a

$\log_{10} a$ or $\log a$, logarithm of a to base 10

t	time
g	acceleration due to gravity
V	volume
W	weight
M	moment
F	factor of safety

II. STRESS AND STRAIN

u	pore pressure
σ	normal stress
σ'	normal effective stress ($\bar{\sigma}$ is also used)
τ	shear stress
ϵ	linear strain
ϵ_{xy}	shear strain
ν	Poisson's ratio (μ is also used)
E	modulus of linear deformation (Young's modulus)
G	modulus of shear deformation
K	modulus of compressibility
η	coefficient of viscosity

III. SOIL PROPERTIES

(a) *Unit weight*

γ	unit weight of soil (bulk density)
γ_s	unit weight of solid particles
γ_w	unit weight of water
γ_d	unit dry weight of soil (dry density)
γ'	unit weight of submerged soil
G_s	specific gravity of solid particles $G_s = \gamma_s/\gamma_w$
e	void ratio
n	porosity
w	water content
S_r	degree of saturation

(b) *Consistency*

w_L	liquid limit
w_P	plastic limit
I_P	plasticity index
w_S	shrinkage limit
I_L	liquidity index $= (w - w_P)/I_P$
I_C	consistency index $= (w_L - w)/I_P$
e_{max}	void ratio in loosest state
e_{min}	void ratio in densest state
D_r	relative density $= (e_{max} - e)/(e_{max} - e_{min})$

(c) *Permeability*

h	hydraulic head or potential
q	rate of discharge
v	velocity of flow
i	hydraulic gradient
k	coefficient of permeability
j	seepage force per unit volume

(d) *Consolidation (one-dimensional)*

m_v	coefficient of volume change $= -\Delta e/(1+e)\Delta\sigma'$
C_c	compression index $= -\Delta e/\Delta \log_{10} \sigma'$
c_v	coefficient of consolidation
T_v	time factor $= c_v t/d^2$ (d, drainage path)
U	degree of consolidation

(e) *Shear strength*

τ_f	shear strength	
c'	effective cohesion intercept	in terms of effective stress $\tau_f = c' + \sigma' \tan \phi'$
ϕ'	effective angle of shearing resistance, or friction	
c_u	apparent cohesion*	in terms of total stress $\tau_f = c_u + \sigma \tan \phi_u$
ϕ_u	apparent angle of shearing resistance, or friction	
μ	coefficient of friction	
S_t	sensitivity	

*For the case of a saturated cohesive soil, $\phi_u = 0$ and the strength $\tau_f = c_u$ is taken as half the undrained compressive strength.

PROJECT: 891-1323-2

RECORD OF BOREHOLE 101

SHEET 1 OF 1

LOCATION: SEE FIGURE 2; STA. 0+828

BORING DATE: JUNE 5, 1992

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	SAMPLES NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m / SHEAR STRENGTH Cu, kPa (nat.V - + Q - ● rem.V - ⊕ U - O)	HYDRAULIC CONDUCTIVITY, k, cm/s / WATER CONTENT, PERCENT (Wp W Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	CME-55 POWER AUGER BORING 200mm O.D. HOLLOW STEM AUGERS	GROUND SURFACE		79.52							
		ASPHALT		79.42 / 0.10							
1		Hard, grey-brown to grey SILTY CLAY, some sand and gravel. (TILL)									
2					1	50 DO	47				
3					2	50 DO	35				
4					3	50 DO	60				
				74.64 / 4.88	4	50 DO	120/.15				
5		Weathered, grey SHALE.			5	50 DO	150/.11				▽
6		END OF BOREHOLE		73.42 / 6.10							WATER LEVEL IN OPEN BOREHOLE AT ABOUT ELEV. 74.5m ON COMPLETION OF DRILLING.
7											
8											
9											
10											

15 ◆ 5 PERCENT AXIAL STRAIN AT FAILURE (0, 10)

DATA INPUT: SK JUNE 16/92

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: SP

CHECKED: SP

PROJECT: 891-1323-2

RECORD OF BOREHOLE 102

SHEET 1 OF 1

LOCATION: SEE FIGURE 2; STA. 0+860

BORING DATE: JUNE 5, 1992

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m; SHEAR STRENGTH Cu, kPa. (nat.V - +, rem.V - ⊕, Q - ●, U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s; WATER CONTENT, PERCENT (Wp, W, Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	CME-55 POWER AUGER BORING, 200mm O.D. HOLLOW STEM AUGERS	GROUND SURFACE		79.81							
		ASPHALT		79.71 / 0.10							
1											
2		Hard, grey-brown to grey SILTY CLAY, some sand and gravel. (TILL)			1	50 DO	35				
3					2	50 DO	76				
4					3	50 DO	50				
5	JUN.5/92 BQ RC			74.99 / 4.82	4	50 DO	110/.25				
		Weathered, grey SHALE with limestone interlayers.									
6				73.77 / 6.04							
		END OF BOREHOLE									
7		NOTES: 1. Casing advanced to 5.3m depth. 2. Rock cored from 5.3m to 6.0m depth. TCR = 70% SCR = 20% RQD = 0%									
8											
9											
10											

WATER LEVEL IN OPEN BOREHOLE AT ABOUT ELEV. 77.0m ON COMPLETION OF DRILLING.

15 (0 / 10) 5 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JUNE 16/92

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: SP

CHECKED: SP

PROJECT: 891-1323-2

RECORD OF BOREHOLE 103

SHEET 1 OF 1

LOCATION: SEE FIGURE 2; STA. 0+895

BORING DATE: JUNE 5, 1992

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m; SHEAR STRENGTH Cu, kPa (nat.V - +, rem.V - ⊕, Q - ●, U - O)	HYDRAULIC CONDUCTIVITY, k, cm/s; WATER CONTENT, PERCENT (Wp, W, Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	CME-55 POWER AUGER BORING; 200mm O.D. HOLLOW STEM AUGERS	GROUND SURFACE		80.22							
		ASPHALT		80.12							
				0.10							
1											
2											
3		Hard, grey-brown to grey SILTY CLAY, some sand and gravel. (TILL)			1	50 DO	54				
					2	50 DO	70/.10				
4											
					3	50 DO	61				
5				75.04							
				5.18							
		Weathered, grey SHALE.			4	50 DO	135				
6				74.09		50 DO	70/.02				
		END OF BOREHOLE		6.13							WATER LEVEL IN OPEN BOREHOLE AT ABOUT ELEV. 74.5m ON COMPLETION OF DRILLING.
7											
8											
9											
10											

0 15 10 5 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JUNE 16/92

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: SP

CHECKED: SP

PROJECT: 891-1323-2

RECORD OF BOREHOLE 104

SHEET 1 OF 1

LOCATION: SEE FIGURE 2; STA. 0+925

BORING DATE: JUNE 8, 1992

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m; SHEAR STRENGTH Cu, kPa (nat.V - +, rem.V - ⊕, Q - ●, U - O)	HYDRAULIC CONDUCTIVITY, k, cm/s; WATER CONTENT, PERCENT (Wp, W, Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	CME-55 POWER AUGER BORING; 200mm O.D. HOLLOW STEM AUGERS	GROUND SURFACE		80.53							
		ASPHALT		80.43 / 0.10							
1		Very stiff to hard, mottled brown and grey SILTY CLAY, some sand and gravel. (TILL)			1	50 DO	23				
2					2	50 DO	44				
3				76.87 / 3.66							
4		Hard, brown, stratified SILTY CLAY, trace sand and gravel, frequent silt and fine sand partings.		76.26 / 4.27	3	50 DO	120/.20				
					4	50 DO	120/.15				
5		Very dense, grey-brown to grey SILTY SAND and GRAVEL, trace clay. (TILL)				50 DO	100/.02				
6					6	50 DO	110				
				73.98							
7		END OF BOREHOLE		6.55							WATER LEVEL IN OPEN BOREHOLE AT ABOUT ELEV. 76.1m ON JUNE 16/92.
8											
9											
10											

0 / 15 ◆ 5 / 10 PERCENT AXIAL STRAIN AT FAILURE

DATA INPUT: SK JUNE 16/92

DEPTH SCALE

1 to 50

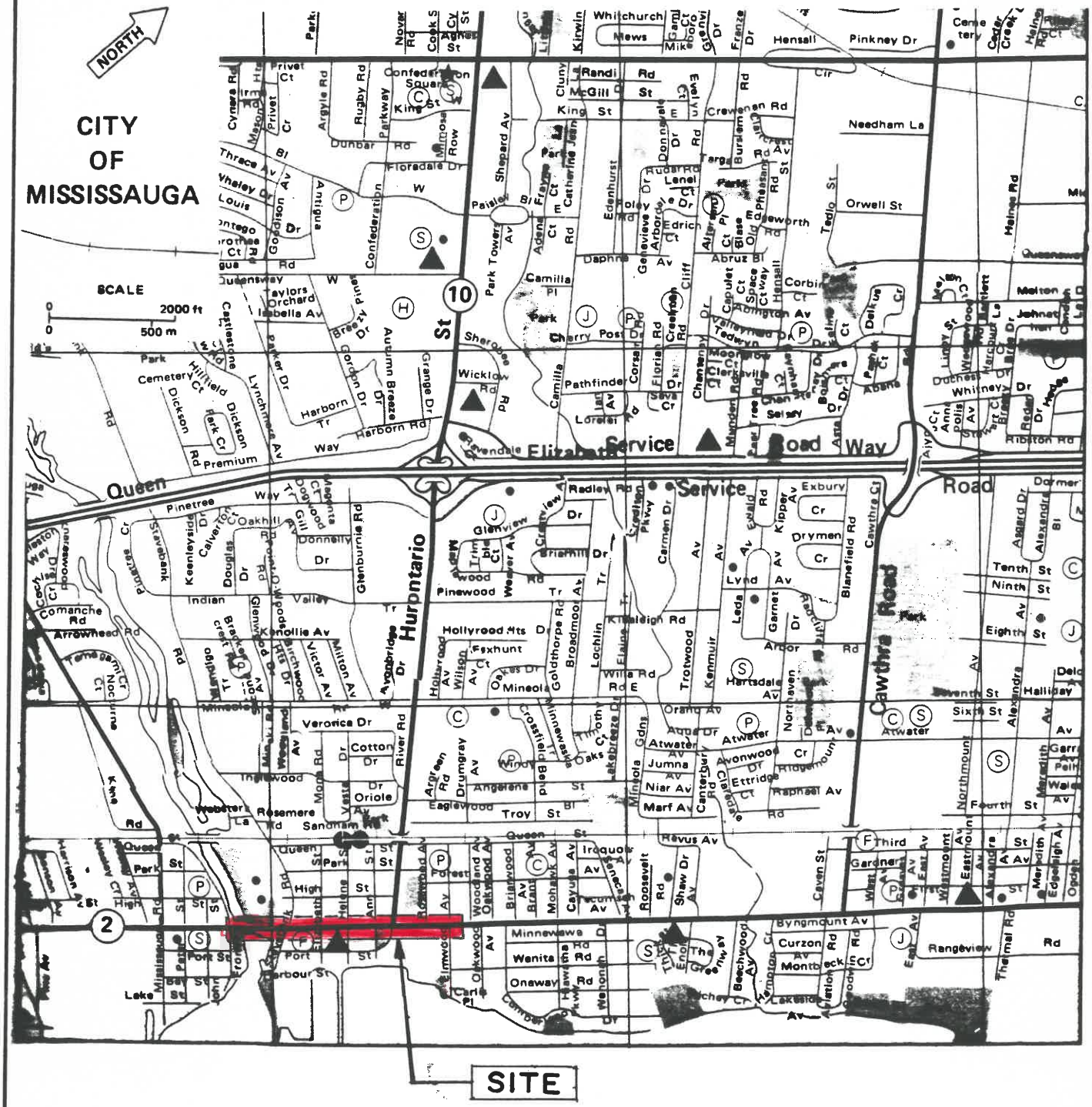
Golder Associates

LOGGED: SP

CHECKED: SP

SITE LOCATION PLAN

FIGURE 1



Date JUNE, 1992.

Project 891-1323-2

Golder Associates

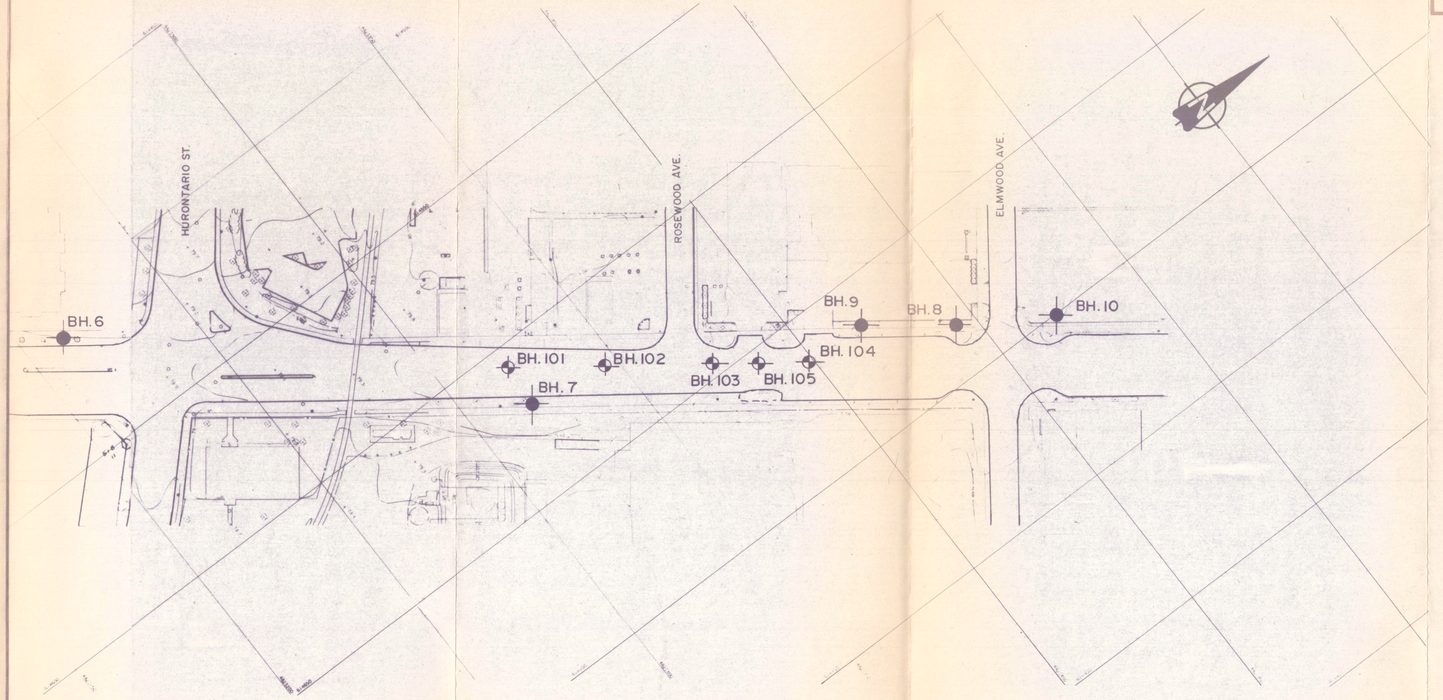
Drawn MHW

Chkd.

FORM PRODUCED JUNE 1986

BOREHOLE LOCATION PLAN

FIGURE 2



LEGEND

- BOREHOLE LOCATION IN PLAN (PRESENT INVESTIGATION)
- BOREHOLE LOCATION IN PLAN (PREVIOUS INVESTIGATION, GOLDER ASSOC. REPORT 891-1323-1, DATED NOV. 1991)
- BOREHOLE LOCATION IN PLAN (PREVIOUS INVESTIGATION GOLDER ASSOC. REPORT 861-1263, DATED OCT. 1986)

REFERENCE: PRELIMINARY MAPPING AT 1:500 SCALE PROVIDED BY KNOX MARTIN KRETCH LTD

0 5 10 20 30 50 100

SCALE, METRES

Date JUNE 9, 1992

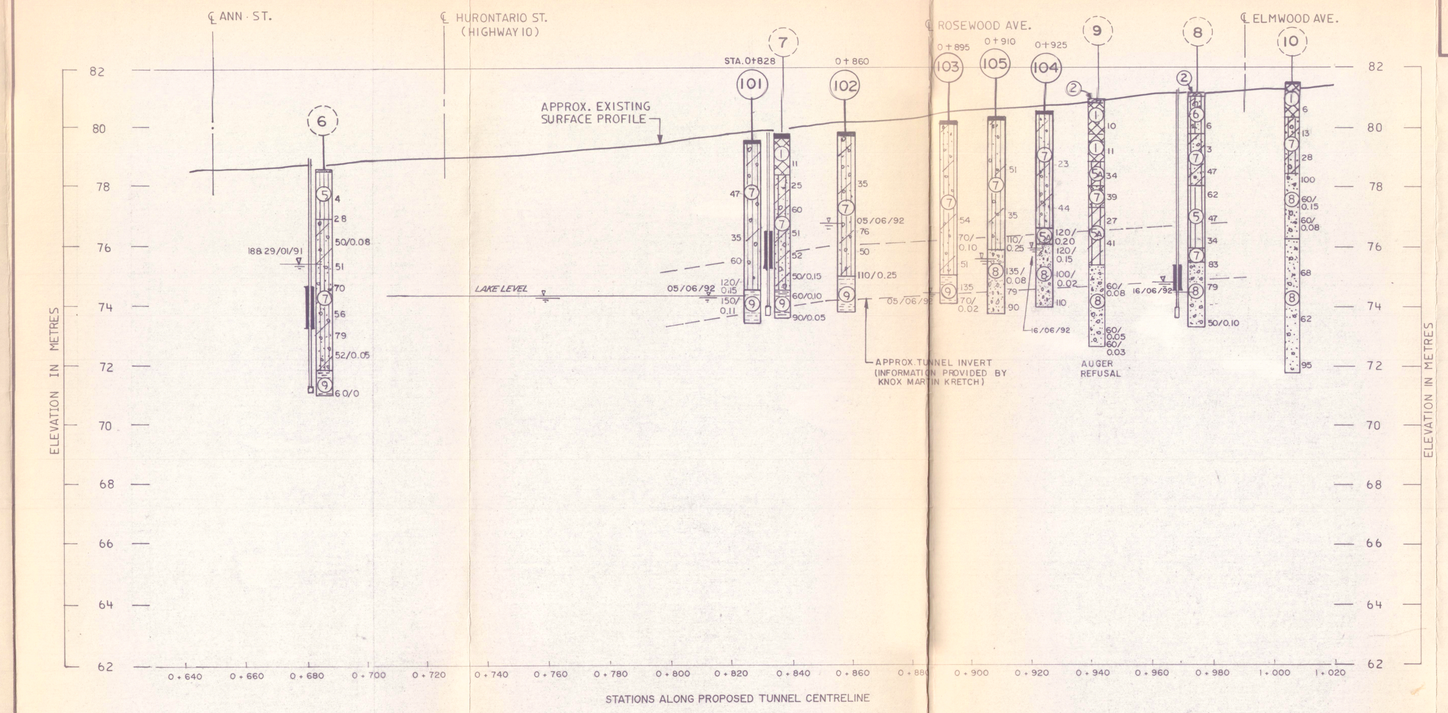
Project 891-1323-2

Golder Associates

Drawn MHW

Chkd

891-1323-2



SCALES HORIZONTAL 1:1000
VERTICAL 1:100

SECTION ALONG PROPOSED FORCEMAIN

FIGURE 3

LEGEND

STA. 0+828 STATION ALONG PROPOSED TUNNEL CENTRELINE

101 BOREHOLE IN ELEVATION (PRESENT INVESTIGATION)

- STRATA PLOT AND NUMBER (SEE DESCRIPTIONS BELOW)
- STANDARD PENETRATION TEST, 'N' VALUES (BLOWS/0.3 m. UNLESS OTHERWISE STATED)
- BENTONITE SEAL
- WATER LEVEL (DRY AS NOTED)
- PIEZOMETER TIP

9 BOREHOLE IN ELEVATION (PREVIOUS INVESTIGATION) (GOLDER ASSOC. REPORT 891-1323-1, DATED NOV. 1991)

SIMPLIFIED STRATIGRAPHY

1. FILL
2. TOPSOIL
3. SAND
4. SILTY SAND TO SANDY SILT
5. SILT / STRATIFIED SILTY CLAY
6. ORGANIC SILT TO SILTY SAND / PEAT
7. SILTY CLAY TILL OR CLAYEY SILT TILL
8. SAND AND GRAVEL TILL
9. SHALE BEDROCK

CONCRETE, PAVING STONES OR ASPHALT

NOTES

1. FOR DETAILED STRATIGRAPHIC DESCRIPTIONS REFER TO THE INDIVIDUAL RECORD OF BOREHOLE SHEETS INCLUDED IN THE ACCOMPANYING REPORT.
2. FOR BOREHOLE LOCATIONS REFER TO FIGURE 2.

Date JUNE 9 1992
Project 891-1323-2

Golder Associates

Drawn MHW
Chkd EMA

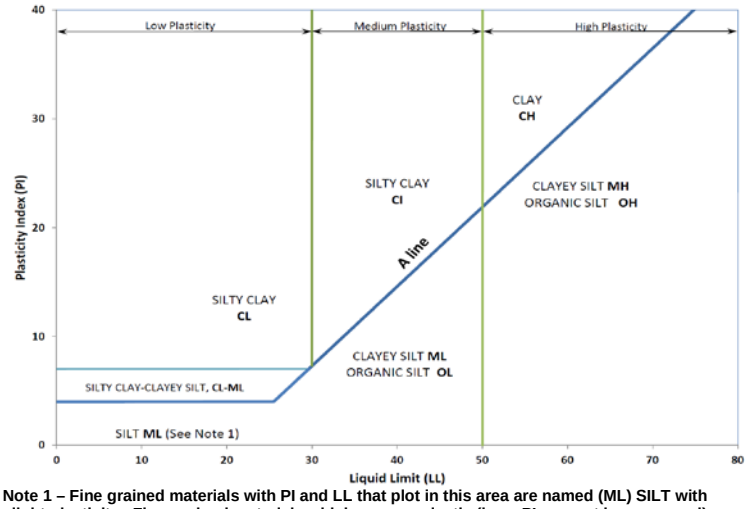
PRELIMINARY GROUND INVESTIGATION AND DESIGN REPORT, GO TRANSIT-METROLINX CROSSING, PORT CREDIT GO STATION, HURONTARIO/MAIN LIGHT RAIL TRANSIT (HMLRT), MISSISSAUGA, ONTARIO, DATED AUGUST 2013

METHOD OF SOIL CLASSIFICATION

The Golder Associates Ltd. Soil Classification System is based on the Unified Soil Classification System (USCS)

Organic or Inorganic	Soil Group	Type of Soil		Gradation or Plasticity	$Cu = \frac{D_{60}}{D_{10}}$	$Cc = \frac{(D_{30})^2}{D_{10} x D_{60}}$	Organic Content	USCS Group Symbol	Group Name
INORGANIC (Organic Content ≤30% by mass)	COARSE-GRAINED SOILS (>50% by mass is larger than 0.075 mm)	GRAVELS (>50% by mass of coarse fraction is larger than 4.75 mm)	Gravels with ≤12% fines (by mass)	Poorly Graded	<4	≤1 or ≥3	≤30%	GP	GRAVEL
				Well Graded	≥4	1 to 3		GW	GRAVEL
			Gravels with >12% fines (by mass)	Below A Line	n/a			GM	SILTY GRAVEL
				Above A Line	n/a			GC	CLAYEY GRAVEL
		SANDS (≥50% by mass of coarse fraction is smaller than 4.75 mm)	Sands with ≤12% fines (by mass)	Poorly Graded	<6	≤1 or ≥3		SP	SAND
				Well Graded	≥6	1 to 3		SW	SAND
			Sands with >12% fines (by mass)	Below A Line	n/a			SM	SILTY SAND
				Above A Line	n/a			SC	CLAYEY SAND

Organic or Inorganic	Soil Group	Type of Soil		Laboratory Tests	Field Indicators					Organic Content	USCS Group Symbol	Primary Name
					Dilatancy	Dry Strength	Shine Test	Thread Diameter	Toughness (of 3 mm thread)			
INORGANIC (Organic Content ≤30% by mass)	FINE-GRAINED SOILS (≥50% by mass is smaller than 0.075 mm)	SILTS (Non-Plastic or PI and LL plot below A-Line on Plasticity Chart below)		Liquid Limit <50	Rapid	None	None	>6 mm	N/A (can't roll 3 mm thread)	<5%	ML	SILT
					Slow	None to Low	Dull	3mm to 6 mm	None to low	<5%	ML	CLAYEY SILT
					Slow to very slow	Low to medium	Dull to slight	3mm to 6 mm	Low	5% to 30%	OL	ORGANIC SILT
				Liquid Limit ≥50	Slow to very slow	Low to medium	Slight	3mm to 6 mm	Low to medium	<5%	MH	CLAYEY SILT
					None	Medium to high	Dull to slight	1 mm to 3 mm	Medium to high	5% to 30%	OH	ORGANIC SILT
		CLAYS (PI and LL plot above A-Line on Plasticity Chart below)		Liquid Limit <30	None	Low to medium	Slight to shiny	~ 3 mm	Low to medium	0% to 30% (see Note 2)	CL	SILTY CLAY
				Liquid Limit 30 to 50	None	Medium to high	Slight to shiny	1 mm to 3 mm	Medium		CI	SILTY CLAY
				Liquid Limit ≥50	None	High	Shiny	<1 mm	High		CH	CLAY
HIGHLY ORGANIC SOILS (Organic Content >30% by mass)		Peat and mineral soil mixtures								30% to 75%	PT	SILTY PEAT, SANDY PEAT
		Predominantly peat, may contain some mineral soil, fibrous or amorphous peat								75% to 100%		PEAT



Note 1 – Fine grained materials with PI and LL that plot in this area are named (ML) SILT with slight plasticity. Fine-grained materials which are non-plastic (i.e. a PL cannot be measured) are named SILT.
Note 2 – For soils with <5% organic content, include the descriptor "trace organics" for soils with between 5% and 30% organic content include the prefix "organic" before the Primary name.

Dual Symbol — A dual symbol is two symbols separated by a hyphen, for example, GP-GM, SW-SC and CL-ML.
For non-cohesive soils, the dual symbols must be used when the soil has between 5% and 12% fines (i.e. to identify transitional material between "clean" and "dirty" sand or gravel.
For cohesive soils, the dual symbol must be used when the liquid limit and plasticity index values plot in the CL-ML area of the plasticity chart (see Plasticity Chart at left).

Borderline Symbol — A borderline symbol is two symbols separated by a slash, for example, CL/CI, GM/SM, CL/ML.
A borderline symbol should be used to indicate that the soil has been identified as having properties that are on the transition between similar materials. In addition, a borderline symbol may be used to ~~or~~ indicate~~s~~ a range of similar soil types within a stratum.

ABBREVIATIONS AND TERMS USED ON RECORDS OF BOREHOLES AND TEST PITS

PARTICLE SIZES OF CONSTITUENTS

Soil Constituent	Particle Size Description	Millimetres	Inches (US Std. Sieve Size)
BOULDERS	Not Applicable	>300	>12
COBBLES	Not Applicable	75 to 300	3 to 12
GRAVEL	Coarse Fine	19 to 75 4.75 to 19	0.75 to 3 (4) to 0.75
SAND	Coarse Medium Fine	2.00 to 4.75 0.425 to 2.00 0.075 to 0.425	(10) to (4) (40) to (10) (200) to (40)
SILT/CLAY	Classified by plasticity	<0.075	< (200)

MODIFIERS FOR SECONDARY AND MINOR CONSTITUENTS

Percentage by Mass	Modifier
>35	Use 'and' to combine major constituents (*i.e.,* SAND and GRAVEL, SAND and CLAY)
> 12 to 35	Primary soil name prefixed with "gravelly, sandy, SILTY, CLAYEY" as applicable
> 5 to 12	some
≤ 5	trace

PENETRATION RESISTANCE

Standard Penetration Resistance (SPT), N:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) required to drive a 50 mm (2 in.) split-spoon sampler for a distance of 300 mm (12 in.).

Cone Penetration Test (CPT)

An electronic cone penetrometer with a 60° conical tip and a project end area of 10 cm^2 pushed through ground at a penetration rate of 2 cm/s. Measurements of tip resistance (q_t), porewater pressure (u) and sleeve frictions are recorded electronically at 25 mm penetration intervals.

Dynamic Cone Penetration Resistance (DCPT); N_d:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) to drive uncased a 50 mm (2 in.) diameter, 60° cone attached to "A" size drill rods for a distance of 300 mm (12 in.).

PH: Sampler advanced by hydraulic pressure
PM: Sampler advanced by manual pressure
WH: Sampler advanced by static weight of hammer
WR: Sampler advanced by weight of sampler and rod

SAMPLES

AS	Auger sample
BS	Block sample
CS	Chunk sample
DO or DP	Seamless open ended, driven or pushed tube sampler – note size
DS	Denison type sample
FS	Foil sample
RC	Rock core
SC	Soil core
SS	Split spoon sampler – note size
ST	Slotted tube
TO	Thin-walled, open – note size
TP	Thin-walled, piston – note size
WS	Wash sample

SOIL TESTS

w	water content
PL , w_p	plastic limit
LL , w_L	liquid limit
C	consolidation (oedometer) test
CHEM	chemical analysis (refer to text)
CID	consolidated isotropically drained triaxial test[1]
CIU	consolidated isotropically undrained triaxial test with porewater pressure measurement[1]
D_R	relative density (specific gravity, Gs)
DS	direct shear test
GS	specific gravity
M	sieve analysis for particle size
MH	combined sieve and hydrometer (H) analysis
MPC	Modified Proctor compaction test
SPC	Standard Proctor compaction test
OC	organic content test
SO_4	concentration of water-soluble sulphates
UC	unconfined compression test
UU	unconsolidated undrained triaxial test
V (FV)	field vane (LV-laboratory vane test)
γ	unit weight

1. Tests which are anisotropically consolidated prior to shear are shown as CAD, CAU.

NON-COHESIVE (COHESIONLESS) SOILS

Compactness[2]

Term	SPT 'N' (blows/0.3m)[1]
Very Loose	0 - 4
Loose	4 to 10
Compact	10 to 30
Dense	30 to 50
Very Dense	>50

1. SPT 'N' in accordance with ASTM D1586, uncorrected for overburden pressure effects.
2. Definition of compactness descriptions based on SPT 'N' ranges from Terzaghi and Peck (1967) and correspond to typical average N_{60} values.

Field Moisture Condition

Term	Description
Dry	Soil flows freely through fingers.
Moist	Soils are darker than in the dry condition and may feel cool.
Wet	As moist, but with free water forming on hands when handled.

COHESIVE SOILS

Consistency

Term	Undrained Shear Strength (kPa)	SPT 'N'[1] (blows/0.3m)
Very Soft	<12	0 to 2
Soft	12 to 25	2 to 4
Firm	25 to 50	4 to 8
Stiff	50 to 100	8 to 15
Very Stiff	100 to 200	15 to 30
Hard	>200	>30

1. SPT 'N' in accordance with ASTM D1586, uncorrected for overburden pressure effects; approximate only.

Water Content

Term	Description
w < PL	Material is estimated to be drier than the Plastic Limit.
w ~ PL	Material is estimated to be close to the Plastic Limit.
w > PL	Material is estimated to be wetter than the Plastic Limit.

LIST OF SYMBOLS

Unless otherwise stated, the symbols employed in the report are as follows:

I. GENERAL

π	3.1416
ln x	natural logarithm of x
$\log_{10}$	x or log x, logarithm of x to base 10
g	acceleration due to gravity
t	time

II. STRESS AND STRAIN

γ	shear strain
Δ	change in, e.g. in stress: $\Delta\sigma$
ε	linear strain
ε_v	volumetric strain
η	coefficient of viscosity
υ	Poisson's ratio
σ	total stress
σ'	effective stress ($\sigma' = \sigma - u$)
σ'_{vo}	initial effective overburden stress
σ_1, σ_2, σ_3	principal stress (major, intermediate, minor)
σ_{oct}	mean stress or octahedral stress $= (\sigma_1 + \sigma_2 + \sigma_3)/3$
τ	shear stress
u	porewater pressure
E	modulus of deformation
G	shear modulus of deformation
K	bulk modulus of compressibility

III. SOIL PROPERTIES

(a) Index Properties

$\rho(\gamma)$	bulk density (bulk unit weight)*
$\rho_d(\gamma_d)$	dry density (dry unit weight)
$\rho_w(\gamma_w)$	density (unit weight) of water
$\rho_s(\gamma_s)$	density (unit weight) of solid particles
γ'	unit weight of submerged soil ($\gamma' = \gamma - \gamma_w$)
D_R	relative density (specific gravity) of solid particles ($D_R = \rho_s / \rho_w$) (formerly G_s)
e	void ratio
n	porosity
S	degree of saturation

* Density symbol is ρ. Unit weight symbol is γ where $\gamma = \rho g$ (i.e. mass density multiplied by acceleration due to gravity)

(a) Index Properties (continued)

w	water content
w_l or LL	liquid limit
w_p or PL	plastic limit
I_p or PI	plasticity index = $(w_l - w_p)$
w_s	shrinkage limit
I_L	liquidity index = $(w - w_p) / I_p$
I_C	consistency index = $(w_l - w) / I_p$
e_{max}	void ratio in loosest state
e_{min}	void ratio in densest state
I_D	density index = $(e_{max} - e) / (e_{max} - e_{min})$ (formerly relative density)

(b) Hydraulic Properties

h	hydraulic head or potential
q	rate of flow
v	velocity of flow
i	hydraulic gradient
k	hydraulic conductivity (coefficient of permeability)
j	seepage force per unit volume

(c) Consolidation (one-dimensional)

C_c	compression index (normally consolidated range)
C_r	recompression index (over-consolidated range)
C_s	swelling index
C_α	secondary compression index
m_v	coefficient of volume change
c_v	coefficient of consolidation (vertical direction)
c_h	coefficient of consolidation (horizontal direction)
T_v	time factor (vertical direction)
U	degree of consolidation
σ'_p	pre-consolidation stress
OCR	over-consolidation ratio = σ'_p / σ'_{vo}

(d) Shear Strength

τ_p, τ_r	peak and residual shear strength
ϕ'	effective angle of internal friction
δ	angle of interface friction
μ	coefficient of friction = tan δ
c′	effective cohesion
c_u, s_u	undrained shear strength ($\phi = 0$ analysis)
p	mean total stress $(\sigma_1 + \sigma_3)/2$
p′	mean effective stress $(\sigma'_1 + \sigma'_3)/2$
q	$(\sigma_1 - \sigma_3)/2$ or $(\sigma'_1 - \sigma'_3)/2$
q_u	compressive strength $(\sigma_1 - \sigma_3)$
S_t	sensitivity

Notes: 1 $\tau = c' + \sigma' \tan \phi'$

2 shear strength = (compressive strength)/2

LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

WEATHERINGS STATE

Fresh: no visible sign of weathering

Faintly weathered: weathering limited to the surface of major discontinuities.

Slightly weathered: penetrative weathering developed on open discontinuity surfaces but only slight weathering of rock material.

Moderately weathered: weathering extends throughout the rock mass but the rock material is not friable.

Highly weathered: weathering extends throughout rock mass and the rock material is partly friable.

Completely weathered: rock is wholly decomposed and in a friable condition but the rock and structure are preserved.

BEDDING THICKNESS

Description	Bedding Plane Spacing
Very thickly bedded	Greater than 2 m
Thickly bedded	0.6 m to 2 m
Medium bedded	0.2 m to 0.6 m
Thinly bedded	60 mm to 0.2 m
Very thinly bedded	20 mm to 60 mm
Laminated	6 mm to 20 mm
Thinly laminated	Less than 6 mm

JOINT OR FOLIATION SPACING

Description	Spacing
Very wide	Greater than 3 m
Wide	1 m to 3 m
Moderately close	0.3 m to 1 m
Close	50 mm to 300 mm
Very close	Less than 50 mm

GRAIN SIZE

Term	Size*
Very Coarse Grained	Greater than 60 mm
Coarse Grained	2 mm to 60 mm
Medium Grained	60 microns to 2 mm
Fine Grained	2 microns to 60 microns
Very Fine Grained	Less than 2 microns

Note: * Grains greater than 60 microns diameter are visible to the naked eye.

CORE CONDITION

Total Core Recovery (TCR)
The percentage of solid drill core recovered regardless of quality or length, measured relative to the length of the total core run.

Solid Core Recovery (SCR)
The percentage of solid drill core, regardless of length, recovered at full diameter, measured relative to the length of the total core run.

Rock Quality Designation (RQD)
The percentage of solid drill core, greater than 100 mm length, recovered at full diameter, measured relative to the length of the total core run. RQD varied from 0% for completely broken core to 100% for core in solid sticks.

DISCONTINUITY DATA

Fracture Index
A count of the number of discontinuities (physical separations) in the rock core, including both naturally occurring fractures and mechanically induced breaks caused by drilling.

Dip with Respect to Core Axis
The angle of the discontinuity relative to the axis (length) of the core. In a vertical borehole a discontinuity with a 90° angle is horizontal.

Description and Notes
An abbreviation description of the discontinuities, whether naturally occurring separations such as fractures, bedding planes and foliation planes or mechanically induced features caused by drilling such as ground or shattered core and mechanically separated bedding or foliation surfaces. Additional information concerning the nature of fracture surfaces and infillings are also noted.

Abbreviations

JN	Joint	PL	Planar
FLT	Fault	CU	Curved
SH	Shear	UN	Undulating
VN	Vein	IR	Irregular
FR	Fracture	K	Slickensided
SY	Stylolite	PO	Polished
BD	Bedding	SM	Smooth
FO	Foliation	SR	Slightly Rough
CO	Contact	RO	Rough
AXJ	Axial Joint	VR	Very Rough
KV	Karstic Void		
MB	Mechanical Break		

PROJECT: 11-1111-0070

RECORD OF BOREHOLE: 13-PC1

SHEET 1 OF 2

LOCATION: N 4823683.15; E 614289.96

BORING DATE: May 11, 2013

DATUM: Geodetic

HAMMER TYPE: AUTOMATIC

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp W WI) (10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE		84.36							
0	CME 75 Truck Mount; 108 mm I.D. Continuous Flight Hollow Stem Power Augers	TOPSOIL		0.00							
		FILL - (SW) Gravelly SAND, trace silt, trace clay, trace organic matter; brown; non-cohesive, moist		0.10	1	AS	-				
				83.75							
		FILL - (CL) Sandy SILTY CLAY, some gravel, trace organic matter; dark brown to black; cohesive, w<PL, soft		0.61							
1					2A	SS	4				
				83.14							
		FILL - (GM) Silty SAND, some clay, trace organic matter; light brown; non-cohesive, moist, loose		1.22	2B						
					3	SS	6		○		
2				82.17							
		(CL-ML) SILTY CLAY to CLAYEY SILT, trace sand; light brown; cohesive, w<PL, hard		2.19	4	SS	30				
				81.39							
3		(CL) Sandy SILTY CLAY, some gravel; grey (TILL); cohesive, w<PL, hard		2.97	5	SS	30				
4											
					6	SS	30		○		
5											
		Granite cobble encountered at a depth of 5.46 m		78.90	7	SS	50/ 0.03				
	Rock Coring; NQ Casing	AUGER REFUSAL		5.46							
		Cored from depths of 5.46 m to 6.1 m									
6		For coring details refer to Record of Drillhole 13-PC1		78.26							
		END OF BOREHOLE		6.10							
		NOTES:									
7		1. Borehole dry upon completion of drilling.									
8											
9											
10											

GTA-BHS 001 1111110070.GPJ GAL-MIS.GDT 8/15/13 MK APR. 2013

DEPTH SCALE

1 : 50

Golder Associates

LOGGED: GL

CHECKED: SLP

PROJECT: 11-1111-0070

RECORD OF DRILLHOLE: 13-PC1

SHEET 2 OF 2

LOCATION: N 4823683.2 ;E 614290.0

DRILLING DATE: May 11, 2013

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: DBW Drilling

JN - Joint; FLT - Fault; SH - Shear; VN - Vein; CJ - Conjugate
BD - Bedding; FO - Foliation; CO - Contact; OR - Orthogonal; CL - Cleavage
PL - Planar; CU - Curved; UN - Undulating; ST - Stepped; IR - Irregular
PO - Polished; K - Slickensided; SM - Smooth; RO - Rough; VR - Very Rough
MB - Mechanical Break; BR - Broken Rock
NOTE: For additional abbreviations refer to list of abbreviations & symbols.

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	COLOUR / % RETURN / FLUSH	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.3 m	DISCONTINUITY DATA: B Angle	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jn	HYDRAULIC CONDUCTIVITY K, cm/sec	Diametral Point Load Index (MPa)	RMC -Q' AVG.	NOTES
		Continued from Borehole Log		78.90																
	Rock Coring / NQ Casing	Granite COBBLE		5.46																
		(CL-ML) SILTY CLAY to CLAYEY SILT; grey (RESIDUAL SOIL); cohesive, w~PL		5.54 / 78.57																
6		Slightly weathered, grey, LIMESTONE		5.79 / 78.26	1								JN,PL,SM							*
		END OF DRILLHOLE		6.10																

NOTES:

1. Drilling was abandoned due to binding of core barrel at a depth of 6.1 m

* R.Q.D. measurement could not be obtained due to the run length.

7 8 9 10 11 12 13 14 15

GTA-RCK 018 1111110070.GPJ GAL-MISS.GDT 8/15/13 MK APR. 2013

DEPTH SCALE

1 : 50

Golder Associates

LOGGED: GL

CHECKED:

PROJECT: 11-1111-0070

RECORD OF BOREHOLE: 13-PC2

SHEET 1 OF 1

LOCATION: N 4823700.16; E 614263.20

BORING DATE: May 11, 2013

DATUM: Geodetic

HAMMER TYPE: AUTOMATIC

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp W Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE		85.04							
0	CME 75 Truck Mount; 152 mm O.D. Continuous Flight Solid Stem Power Augers	ASPHALT		0.00							
		FILL - (SW/GW) SAND and GRAVEL, trace silt, containing pockets of silty clay to clayey silt; brown and black; non-cohesive, moist, loose		0.05	1	AS	-				Flushmount Casing Cement Sand
1					2	SS	9				
		FILL - (CL-ML) SILTY CLAY to CLAYEY SILT, trace sand, some gravel; grey, containing glass pieces; cohesive, w<PL, stiff		83.73 1.31	3A	SS	9				
2		(SM) Sandy SILT, trace clay; light brown; non-cohesive, moist to wet, compact		82.97 2.07	3B						Bentonite Seal
					4	SS	24				
3		(CL) SILTY CLAY, sandy to some sand, trace to some gravel; grey (TILL); cohesive, w<PL, hard		82.07 2.97	5	SS	36			MH	
4											
					6	SS	39				Sand Filter
5											
6		Auger grinding, probable cobbles and/or boulders at a depth of 6.2 m			7	SS	30			MH	Screen May 19, 2013
					8	SS	50/0.08				
7		SPLIT-SPOON REFUSAL END OF BOREHOLE		78.09 6.95							
		NOTE: 1. Water level measured in piezometer at a depth of 6.3 m below ground surface (Elev. 78.7 m) on May 19, 2013.									
8											
9											
10											

DEPTH SCALE

1 : 50

Golder Associates

LOGGED: GL

CHECKED: SLP

GTA-BHS 001 1111110070.GPJ GAL-MIS.GDT 8/15/13 MK APR. 2013

PROJECT: 11-1111-0070

RECORD OF BOREHOLE: 13-PC3

SHEET 1 OF 1

LOCATION: N 4823718.49; E 614237.95

BORING DATE: May 11, 2013

DATUM: Geodetic

HAMMER TYPE: AUTOMATIC

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. +, rem V. ⊕, Q - ●, U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp, W, Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE		84.32							
0	CME 75 Truck Mount; 152 mm O.D. Continuous Flight Solid Stem Power Augers	ASPHALT		0.00							
		FILL - (SW-GW) SAND and GRAVEL, some silt, trace organic matter, containing rootlets; brown and black; non-cohesive, moist		0.11 / 83.71	1	AS	-				
1		FILL - (SM) Silty SAND, trace clay, trace organic matter, containing rootlets; light brown; non-cohesive, moist, loose		0.61 / 82.87	2	SS	9				
		FILL - (ML) Sandy SILT, trace clay, containing asphalt fragments; light brown; non-cohesive, moist, compact		1.45 / 82.40	3A	SS	17		O		
2		(CL) SILTY CLAY, some sand; brown; cohesive, w<PL, very stiff		1.92 / 81.52	3B / 4A	SS	21				
		(CL) Sandy SILTY CLAY, some gravel; grey (TILL); cohesive, w<PL, hard		2.80 / 80.66	4B / 5	SS	46				
3		END OF BOREHOLE		3.66							
4		NOTE: 1. Water level measured in open borehole at a depth of 2.5 m below ground surface (Elev. 81.8 m) upon completion of drilling.									
5											
6											
7											
8											
9											
10											

DEPTH SCALE

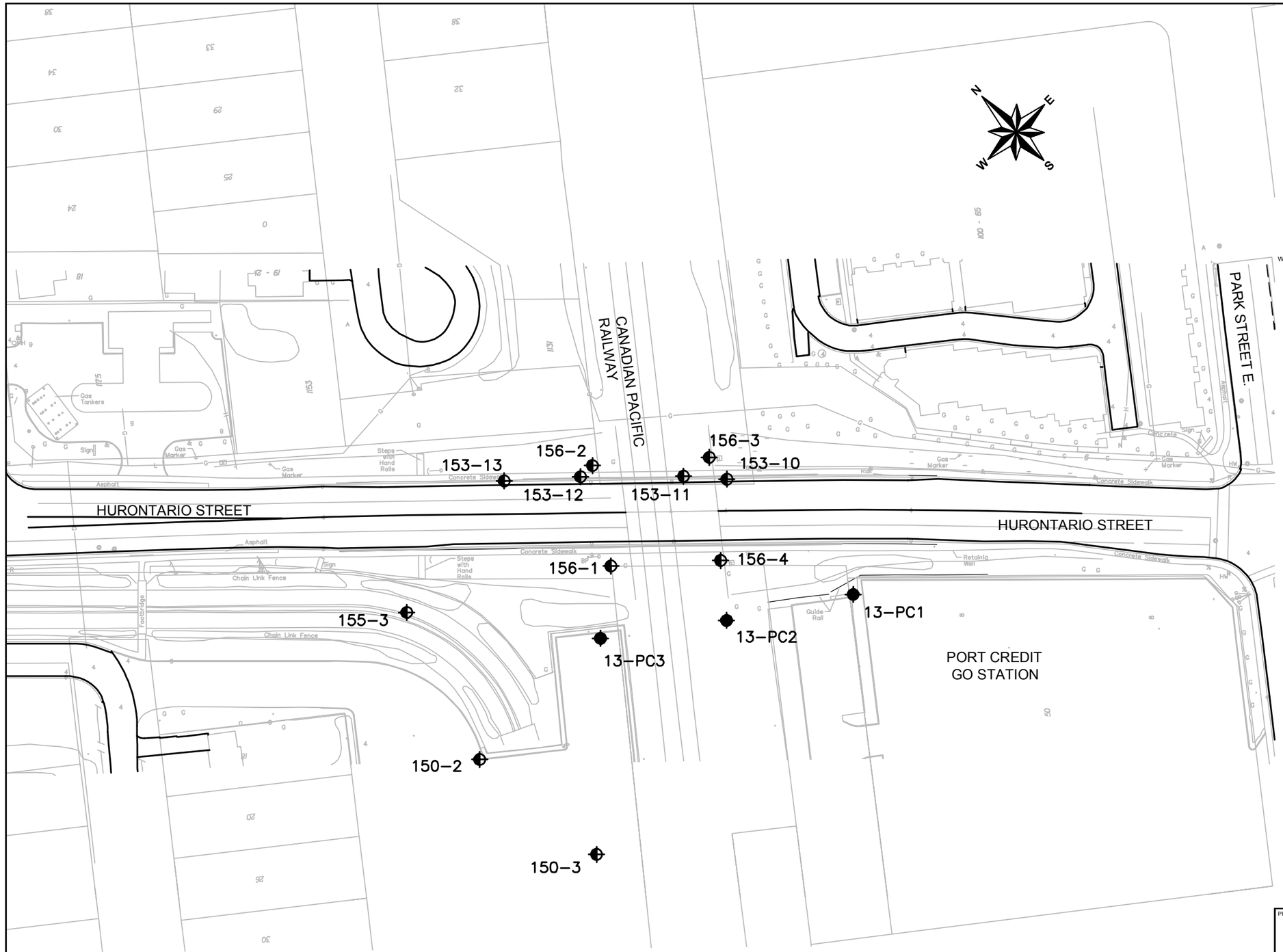
1 : 50

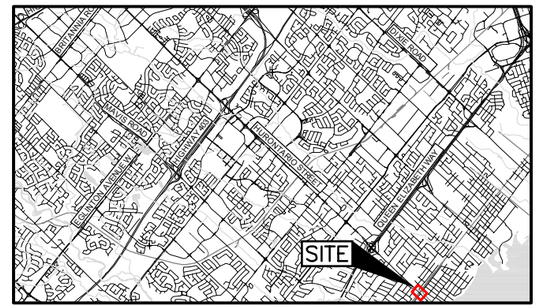
LOGGED: GL

CHECKED: SLP

Golder Associates

GTA-BHS 001 1111110070.GPJ GAL-MIS.GDT 8/15/13 MK APR. 2013





KEY PLAN

SCALE 3 0 3 6 KM

BOREHOLE CO–ORDINATES (UTM NAD83)			
No.	ELEVATION	NORTHING	EASTING
13–PC1	84.4	4823683.2	614290.0
13–PC2	85.0	4823700.2	614263.2
13–PC3	84.3	4823718.5	614238.0
150–2	84.4	4823717.7	614196.0
150–3	84.4	4823681.1	614200.5
153–10	83.5	4823725.0	614287.4
153–11	83.8	4823732.9	614280.2
153–12	84.1	4823750.4	614262.0
153–13	84.1	4823762.6	614247.8
155–3	84.3	4823756.1	614208.3
156–1	84.6	4823729.5	614252.1
156–2	84.8	4823750.3	614266.0
156–3	85.2	4823731.8	614288.0
156–4	85.1	4823711.7	614272.4

LEGEND:

- APPROXIMATE BOREHOLE LOCATION (CURRENT INVESTIGATIONS, GOLDER 2013)
- APPROXIMATE BOREHOLE LOCATION (PREVIOUS INVESTIGATIONS BY OTHERS)
- PROPOSED LRT ALIGNMENT

NOTE:

1. THIS FIGURE SHOULD BE READ INCONJUCTION WITH GOLDER ASSOCIATES LTD. PRELIMINARY FOUNDATION INVESTIGATION AND DESIGN REPORT, DATED JUNE 2013.
2. ALL BOREHOLE LOCATIONS ARE APPROXIMATE.

SCALE 20 0 20 40 METRES

REFERENCES:

BASE PLANS PROVIDED IN DIGITAL FORMAT BY SNC-LAVALIN INC, DRAWING FILE NOS. HMLRT - ROADWAY.DGN AND HMLRT-ALIGNMENT.DGN, RECEIVED MARCH 07, 2013.

PROJECT

HURONTARIO/MAIN STREET LRT PROJECT

TITLE

GO TRANSIT - METROLINX CROSSING PORT CREDIT GO STATION BOREHOLE LOCATION PLAN

Golder Associates
Mississauga, Ontario, Canada

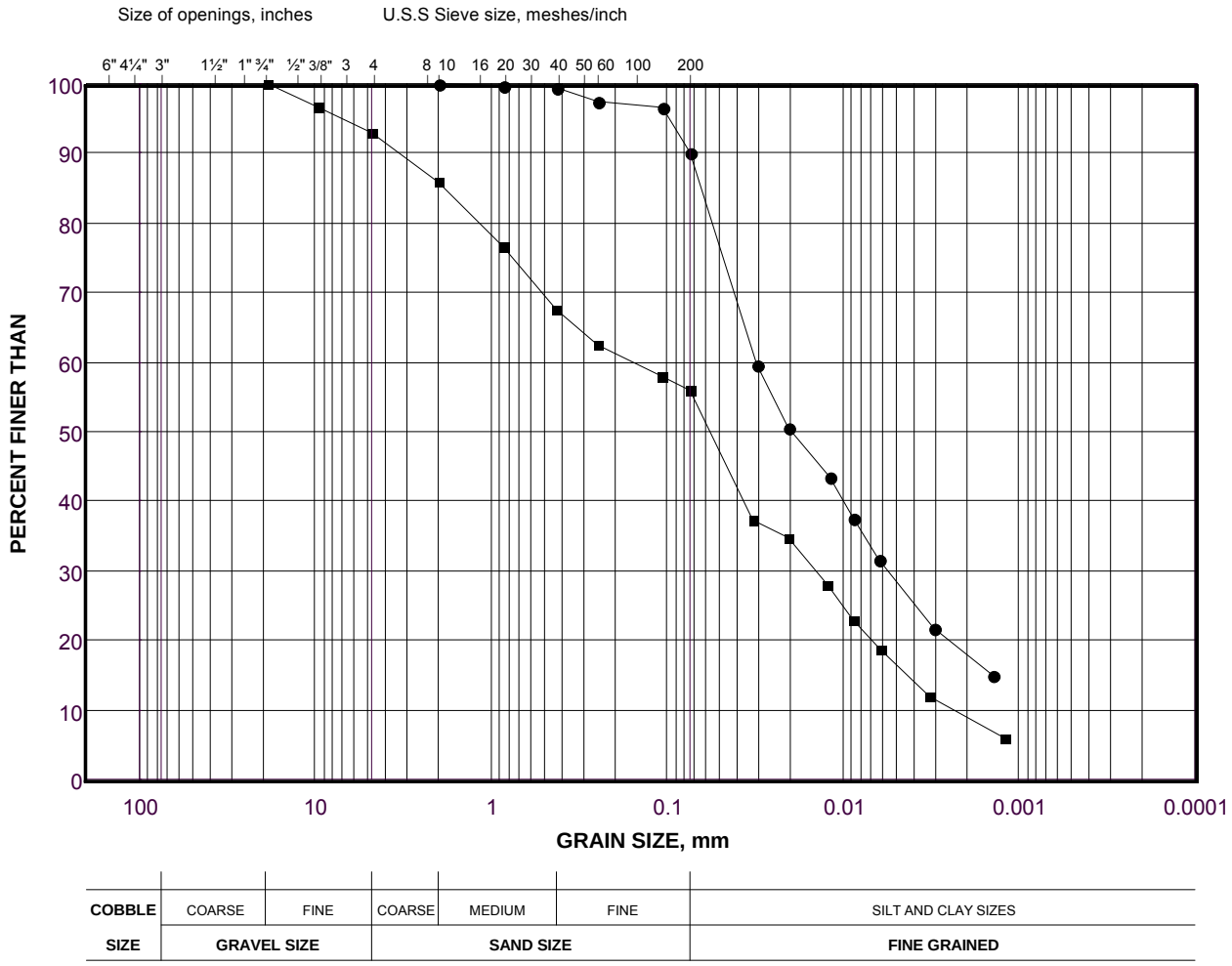
PROJECT No.		11-1111-0070	FILE No.	1111110070DB001.dwg	
DESIGN	CC	4/26/2013	SCALE	AS SHOWN	REV. A
CAD	JFC	6/27/2013	FIGURE No.		
CHECK	SLP	6/27/2013		1	
REVIEW	ASP	6/27/2013			

PLOT DATE: June 27, 2013
FILENAME: T:\Projects\2011\11-1111-0070 (SLI, Mississauga)\-DB- (Port Credit GO Station)\1111110070DB001.dwg

GRAIN SIZE DISTRIBUTION

Sandy Silty Clay (Till)

FIGURE 2



LEGEND

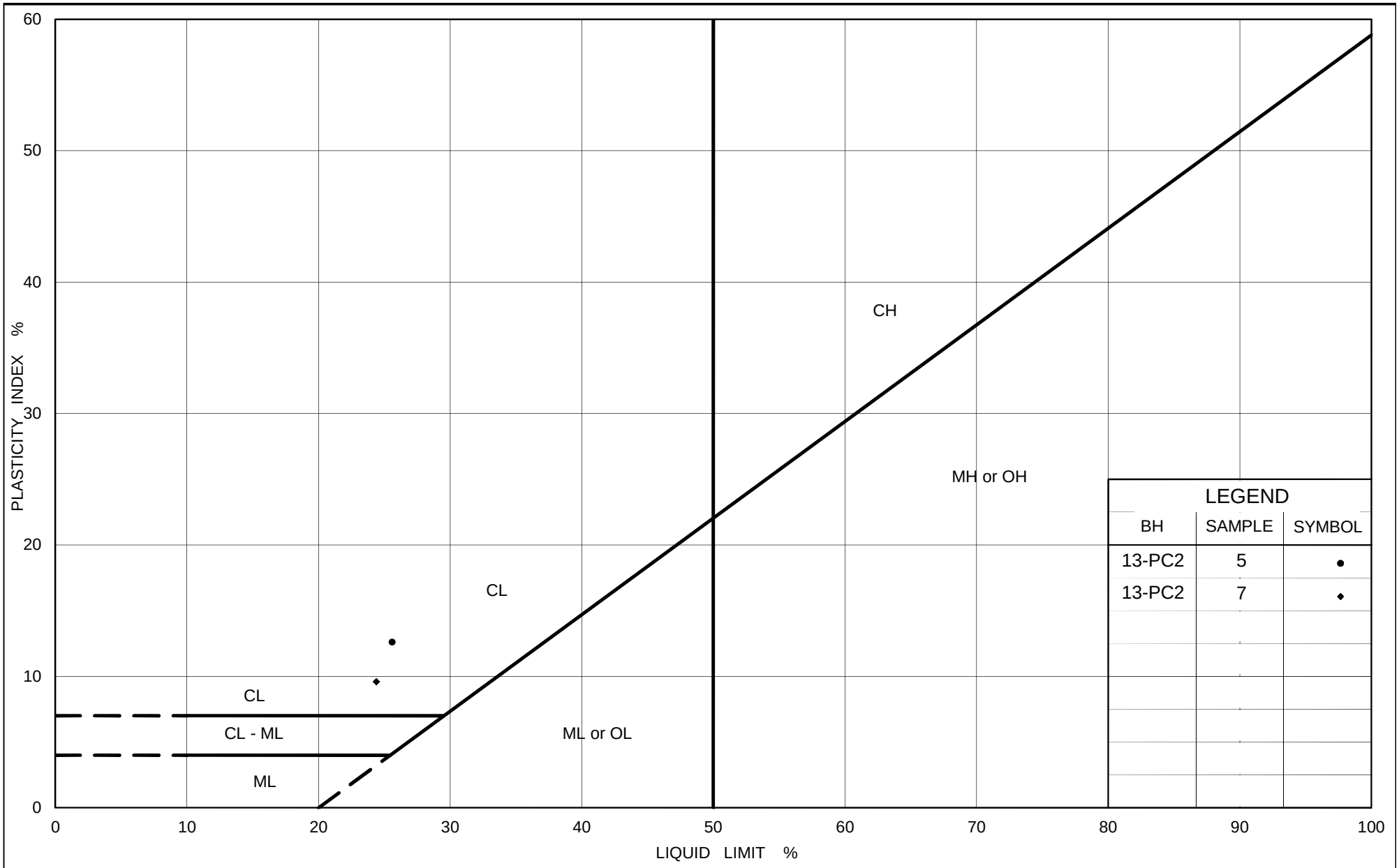
SYMBOL	BOREHOLE	SAMPLE	ELEVATION(m)
●	13-PC2	5	81.7
■	13-PC2	7	78.6

Project Number: 11-1111-0070

Checked By: SLP

Golder Associates

Date: 28-Jun-13



Golder Associates

PLASTICITY CHART
Silty Clay Till

Figure No. 3

Project No. 11-1111-0070

Checked By: SLP

DEPARTMENT OF HIGHWAYS- ONTARIO
MATERIALS & TESTING OFFICE

RECORD OF BOREHOLE No. 150-2

FOUNDATION SECTIC

JOB 69-F-46 LOCATION Port Credit (refer to Drawing 69-F-46A) ORIGINATED BY MRV

W.P. 23-69-1 BORING DATE June 20, 1969 COMPILED BY BMD

DATUM Geodetic BOREHOLE TYPE Penndrill - Power Auger CHECKED BY

	ELEV / DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS / FOOT	ELEV. SCALE
84.4	277.0	Ground Level					
84.1		~~Sand & gravel (Fill)~~					
0.3	1.0	Silty fine sand .					
82.6	271.0	Brown. Dense.		1	SS	35	
1.8	6.0	Clayey silt with some sand and gravel (Glacial Till)		2	SS	35	270
		Grey		3	SS	54	
				4	SS	98	
		Hard		5	SS	96	260
78.5	257.5			6	SS	82	
5.9	19.5	End of Borehole					250

DYNAMIC PENETRATION RESISTANCE BLOWS / FOOT

SHEAR STRENGTH P.S.F.
o UNCONFINED + FIELD VANE
● QUICK TRIAXIAL × LAB. VANE

LIQUID LIMIT —— w_L
PLASTIC LIMIT —— w_P
WATER CONTENT —— w
w_P — w — w_L
WATER CONTENT %

BULK DENSITY γ P.C.F.

REMARKS

GR.SA.SI.C

▼ 269

WL in open hole

June 20/6

DEPARTMENT OF HIGHWAYS- ONTARIO
MATERIALS & TESTING OFFICE

RECORD OF BOREHOLE No. 150-3

FOUNDATION SECT

JOB 68-F-46 LOCATION Port Credit (Refer to Drawing 69-F-46A) ORIGINATED BY MRV

W.P. 23-69-1 BORING DATE June 21, 1969 COMPILED BY BED

DATUM Geodetic BOREHOLE TYPE Hand Auger CHECKED BY

	ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/FOOT	ELEV. SCALE
84.4	277.0	Ground Level					
	0.0	Silty Fine Sand.					
83.2	273.0	Brown Compact		1	SS	15	
	4.0	Clayey silt, some sand & gr.(Glac.Till) V.Stiff					
82.3	270.0			2	SS	25	270
2.1	7.0	End of Borehole					
							260

DYNAMIC PENETRATION RESISTANCE BLOWS / FOOT

SHEAR STRENGTH P.S.F.
o UNCONFINED + FIELD VANE
⊗ QUICK TRIAXIAL × LAB. VANE

LIQUID LIMIT —— w_L
PLASTIC LIMIT —— w_P
WATER CONTENT —— w

w_P w w_L
WATER CONTENT %

BULK DENSITY γ P.C.F.

REMAR

GR.SA.SI

Hand au
Hole Dr
June 21,

FORM DB-MR-149 (REV. 1959.)—58-5021.

OFFICE REPORT ON SOIL EXPLORATION

DEPARTMENT OF HIGHWAYS - ONTARIO

MATERIALS AND RESEARCH SECTION

W.P. Retaining Wall BORE HOLE NO. 153-12

JOB F59-55 STATION 14+00 (20' Rt.)

DATUM 276.0' COMPILED BY B.K.

BORING DATE Dec. 14/59 CHECKED BY M.D. & A.L.

2" DIA. SPLIT TUBE
2" SHELBY TUBE
2" SPLIT TUBE
2" DIA. CONE
2" SHELBY
CASING

LEGEND

1/2 UNCONFINED COMPRESSION (Qu)
VANE TEST (C) AND SENSITIVITY (S)
NATURAL MOISTURE AND LIQUIDITY INDEX
LIQUID LIMIT
PLASTIC LIMIT

	SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
84.1		↓ Ground level	276.0	0
1.2		Sand, gravel and cinders (fill material)		
82.9			272.0	
82.3		Dense brown fine to med. sand.	270.0	
1.8		Dense glacial till of brown sandy clay with fine gravel.	267.0	
2.7		Dense glacial of grey silty clay with fine gravel		10
77.9				20
6.2		End of borehcle	255.5	
				30
				40

STRENGTH AND PENETRATION RESISTANCE P.S.F.
50 BLOWS/FT. 100

CONSISTENCY
MOIST. CONTENT - % DRY WT.
10 20 30

SAMPLE	NATURAL UNIT WT. P.C.F.
S1	127.5
S2	141.
S3	148.6
S4	152.0

DEPARTMENT OF HIGHWAYS - ONTARIO

MATERIALS AND RESEARCH SECTION

W.P. Retaining Wall BORE HOLE NO. 153-13

JOB F59-55 STATION 16+00 (22' Rt.)

DATUM 276.0' COMPILED BY B.K.

BORING DATE Dec.15/59 CHECKED BY M.D. & A.L.

2" DIA. SPLIT TUBE
2" SHELBY TUBE
2" SPLIT TUBE
2" DIA. CONE
2" SHELBY
CASING

LEGEND

1/2 UNCONFINED COMPRESSION (Qu)
VANE TEST (C) AND SENSITIVITY (S)
NATURAL MOISTURE AND LIQUIDITY INDEX
LIQUID LIMIT
PLASTIC LIMIT

	SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
84.1		↓Ground level	276.0	
		Topsoil with sand & gravel	274.5	
0.4		Medium to dense fine sand.		
82.3		W.L. @	271.6	82.6 (m)
81.7		Grey brown silty clay with SAND	270.0	
2.4		pockets of fine sand.	268.0	
		Dense glacial till of silty clay with fine gravel.		
79.2				
4.9		End of borehole	260.0	

Penetration resistance profile shown; obtained by driving a 2" dia. cone from ground level to depth noted with an energy of 350 ft. lb. per blow.

STRENGTH AND PENETRATION RESISTANCE P.S.F. BLOWS/FT. 0 50 100

Penetration ends at Elev. 260.0'

CONSISTENCY MOIST. CONTENT - % DRY WT. 10 20 30

SAMPLE	NATURAL UNIT WT. P.C.F.
S1	-
S2	150.8
S3	150.0
S4	-

FORM OS-ML-126 (REV. 1959) — 58-5491

OFFICE REPORT ON SOIL EXPLORATION

DEPARTMENT OF HIGHWAYS - ONTARIO

MATERIALS AND RESEARCH SECTION

W.P. Retaining Wall — BORE HOLE NO. 153-11

JOB F59-55 — STATION 12+00 (23' Rt.)

DATUM 275.0 — COMPILED BY B.K.

BORING DATE Dec. 11/59 — CHECKED BY M.D. & A.L.

2" DIA. SPLIT TUBE
2" SHELBY TUBE
2" SPLIT TUBE
2" DIA. CONE
2" SHELBY
CASING

LEGEND

1/2 UNCONFINED COMPRESSION (Qu)
VANE TEST (C) AND SENSITIVITY (S)
NATURAL MOISTURE AND LIQUIDITY INDEX
LIQUID LIMIT
PLASTIC LIMIT

	SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET	STRENGTH AND PENETRATION RESISTANCE P.S.F. (50 – 100 BLOWS/FT.)	CONSISTENCY MOIST. CONTENT - % DRY WT. (10 – 20 – 30)	SAMPLE	NATURAL UNIT WT. P.C.F.
83.8		↓ Ground level	275.0	0				
83.2 / 1.5m / 0.6		Gravel, sand & Cinders (fill Material)	273.0	(m) 82.3				
81.7		Med. to Dense brown fine sand. W.L. ▽	270.0					
		Dense brown glacial till of sandy clay with fine gravel	268.0					
3.0			265.0	10			S1	140.5
		Dense grey glacial till of silty clay with fine gravel.					S2	143.8
78.0							S3	136.8
5.8		End of borehole	256.0	20			S4	-
				30				
				40				

OFFICE REPORT ON SOIL EXPLORATION

DEPARTMENT OF HIGHWAYS - ONTARIO

MATERIALS AND RESEARCH SECTION

W.P. Retaining Wall BORE HOLE NO. 153-10

JOB E59-55 STATION 10+50 (23' Rt.)

DATUM 274.0 COMPILED BY B.K.

BORING DATE Dec. 10/59 CHECKED BY M.D. & A.L.

LEGEND

2" DIA. SPLIT TUBE
2" SHELBY TUBE
2" SPLIT TUBE
2" DIA. CONE
2" SHELBY
CASING

1/2 UNCONFINED COMPRESSION (Qu)
VANE TEST (C) AND SENSITIVITY (S)
NATURAL MOISTURE AND LIQUIDITY INDEX
LIQUID LIMIT
PLASTIC LIMIT

	SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET	STRENGTH AND PENETRATION RESISTANCE P.S.F. (S, 50, BLOWS/FT. %, 100)	CONSISTENCY MOIST. CONTENT & DRY WT. (10, 20, 30)	SAMPLE	NATURAL UNIT WT. P.C.F.
83.5		Ground level	274.0	0				
83.2 est.		Topsoil	273.0					
0.3				(m)				
		Dense grey brown fine sand. W.L. ▽	269.0	82.0			S1	-
81.1								
2.4		Dense glacial till of grey sandy clay with fine gravel layer of fine sand-Elevs. 260 to 259.	266.0	10			S2	-
78.5							S3	-
5.0		End of borehole	257.5	20			S4	-
				30				
				40				

OFFICE REPORT ON SOIL EXPLORATION

DEPARTMENT OF HIGHWAYS - ONTARIO

MATERIALS AND RESEARCH SECTION

W.P. 101-58 BORE HOLE NO. 155-3

JOB F 59-124 STATION 6 + 50 ℄

DATUM 276.6 COMPILED BY B.K.

BORING DATE Dec. 17/59 CHECKED BY M.D. & A.L.

2" DIA. SPLIT TUBE
2" SHELBY TUBE
2" SPLIT TUBE
2" DIA. CONE
2" SHELBY
CASING

LEGEND

1/2 UNCONFINED COMPRESSION (Qu)
VANE TEST (C) AND SENSITIVITY (S)
NATURAL MOISTURE AND LIQUIDITY INDEX
LIQUID LIMIT
PLASTIC LIMIT

SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
84.3	↓ Groundlevel	276.6	0
84.1 0.3	Topsoil	276.6	
82.8	Med. to Dense silty fine to med. sand with clay (Fill)	275.6	
0.9 81.9	Dense grey fine sand	271.6	
2.4	Dense Glacial Till (Grey silty clay with gravel and pockets of fine sand)	268.6	10
79.3		260.1	
5.0	End of borehole		20
	Penetration resistance profile shown obtained by driving a 2" dia cone from groundlevel to depth noted with an energy of 350 ft. lb. per blow.		30
			40

STRENGTH AND PENETRATION RESISTANCE P.S.F.

25 50 75 100 BLOWS/FT.

Penetration ends at elev. 261.6'

CONSISTENCY

MOIST. CONTENT - % DRY WT.

10 20 30

SAMPLE	NATURAL UNIT WT. P.C.F.
S 1	-
S 2	122.0
S 3	145.0
S 4	150.0

PROJECT NO. J367

DRAWING NO. 2

WILLIAM A. TROW AND ASSOCIATES

SITE INVESTIGATIONS AND SOIL MECHANICS CONSULTATION

PROJECT C.N.R. Underpass Hwy. 10
LOCATION Port Credit, Ont.
BOREHOLE LOCATION See Dwg.1
BOREHOLE ELEVATION AND DATUM 277.7

BOREHOLE NO. 156-1
FIELD SUPERVISOR WT
DRILLER
PREP. WT

LEGEND
- 2" DIA. SPLIT TUBE
- 2" SHELBY TUBE
- 2" SPLIT TUBE
- 2" DIA. CONE
- CASING
- 2" SHELBY
- 1/2 UNCONFINED COMPRESSION (Qu)
- VANE TEST (C) AND SENSITIVITY (S)
- NATURAL MOISTURE AND LIQUIDITY INDEX
- LIQUID LIMIT
- PLASTIC LIMIT

STRATA	DESCRIPTION	ELEV FEET	DEPTH FEET
84.6	Ground surface	277.7	0
83.3	Loose cinders (dry)	273.2	
	Wet sandy topsoil (pieces of brick and cinders)	271.7	
1.8	Hard brown clay with some gravel		10
81.0		265.7	
4.6	Hard grey sandy clayey silt with pebbles more sand and gravel sizes below 20 ft.		20
77.6		254.7	
7.0	Very dense slightly cohesive silty fine sand with medium to coarse limestone gravel.		30
3.7m			
73.9		242.5	
	Bedrock: hard dark grey shale		
72.4	B core-poor recov. to 35.6; 88% recov. 35.6-40.3 ft.; (may have left core in hole)	237.4	40
12.2			

STRENGTH AND PENETRATION RESISTANCE
Shear Str. 2000 4000 6000 P.S.F.
BLOWS/FT. 20 40 60 80

Cone penetration test

CONSISTENCY
MOIST. CONTENT - % DRY WT. 20 30 40

SAMPLE	NATURAL UNIT WT. P.C.F.
S1	
S2	
S3	
S4	127.2
S5	142
S6	143
S7	
S8	
S9	
S10	
S11	
S12	
S13	
S14	
S15	
S16	
S17	

NOTES: 1) Hole by BX casing drilled to various sampling intervals.
2) Cone pene. test driven about 6 ft. to west at approx. El. 278.2
3) Observation well installed 4 ft. to west; 3 in. casing driven to seal in the clay at 10 ft.; casing filled to 6" above surface; water level after 5 mins. elev. 277.6; stabilized within 28 hrs. @ el. 259.5 ft. (confirmed over 3 dy. period)

PROJECT NO J367

DRAWING NO. 3

WILLIAM A. TROW AND ASSOCIATES

SITE INVESTIGATIONS AND SOIL MECHANICS CONSULTATION

PROJECT C.N.R. Underpass Hwy.10

LOCATION Port Credit, Ont.

HOLE LOCATION See Dwg.1

HOLE ELEVATION AND DATUM 278.3

BOREHOLE NO. 156-2

FIELD SUPERVISOR WT

DRILLER

PREP WT

LEGEND

- 2" DIA. SPLIT TUBE
- 2" SHELBY TUBE
- 2" SPLIT TUBE
- 2" DIA. CONE
- CASING
- 2" SHELBY
- 1/2 UNCONFINED COMPRESSION (Qu)
- VANE TEST (C) AND SENSITIVITY (S)
- NATURAL MOISTURE AND LIQUIDITY INDEX
- LIQUID LIMIT
- PLASTIC LIMIT

Depth	Description	Elev. Feet	Depth Feet	Sample	Natural Unit Wt. P.C.F.
84.8	Ground surface.	278.3	0		
83.9	Loose br.silt,sand & cinders	275.3			
83.0	Stiff gr.clayey silt & sand & gravel fill	273		T1	110
	Sandy topsoil brick fragments	272.3		T2	132
82.3	Brown moist clayey silty fine sand	270			
2.5 / 81.0	Hard brown clay with some pebbles (indication of till)	265.8	10	S3	
				T4	150.4
3.8	Hard grey sandy clayey silt with some gravel. Limestone gravel or slabs at least 2 ins.thick between 19.7 & 21 ft.		20	T5	149
				T6	
77.2		253.3		S7	
7.6 / 1.7m / 75.5	Very dense slightly cohesive silty sand with some gravel.	247.6	30	S8	
9.3 / 74.1	Bedrock: Hard limestone with some interbeds of dark grey shale. (81% recov.30.7 ft.to 35.2 ft.-B core)	243.1			
10.7	NOTES: 1) Hole by BX casing drilled to various sampling intervals. 2) Water level after casing withdrawn = 5.8 ft. Stabilized water level-5.6 ft.		40		

STRENGTH AND PENETRATION RESISTANCE

Shear Str. 2000 4000 6000 8000 P.C.F.

BLOWS/FT. 20 40 60 80

Levered

Levered

Bias.

Tins.

Bias.

CONSISTENCY

MOIST. CONTENT - % DRY WT. 20 30 40

PROJECT NO. J 367

DRAWING NO. 4

WILLIAM A. TROW AND ASSOCIATES

SITE INVESTIGATIONS AND SOIL MECHANICS CONSULTATION

PROJECT .CN.R. Underpass Hwy.10

LOCATION Port Credit, Ont.

HOLE LOCATION See Dwg.1

HOLE ELEVATION AND DATUM 279.5

BOREHOLE NO. 156-3

FIELD SUPERVISOR WT

DRILLER

PREP WT

LEGEND

- 2" DIA. SPLIT TUBE
- 2" SHELBY TUBE
- 2" SPLIT TUBE
- 2" DIA. CONE
- CASING
- 2" SHELBY
- 1 7/8 UNCONFINED COMPRESSION (Qu)
- VANE TEST (C) AND SENSITIVITY (S)
- NATURAL MOISTURE AND LIQUIDITY INDEX
- LIQUID LIMIT
- PLASTIC LIMIT

STRATA	DESCRIPTION	ELEV. FEET	DEPTH FEET
85.2	Ground surface	279.5	0
sub	Cinders & gravel up to 3 ins.	277.5	
84.0	Stiff to very stiff br.clay fill- some organic material & gravel	275.5	
	Moist to wet uniform fine sand some sandy topsoil at 6 ft.	273	
2.0			
81.4		267	
3.8	Hard grey sandy clayey silt with gravel. Limestone gravel or slabs up to 5 ins.thick 21.2 – 22.2 ft.		
77.6		254.5	
7.6	Dense slightly cohesive silty sand with coarse gravel. Limestone boulders or slabs below 28.5 ft. Drilled 32.9 ft.to 37.8 ft.through limestone boulders in glacial till; drill on partial pressure – not bedrock.		
3.9m			
73.7		241.7	
11.5	NOTES: Installed porous piezometer in drill hole; hole filled with sand and gravel to 23 ft; bentonite seal in unlined borehole – 17-19 ft; Water level stabilized within 4 dys. at El.259.4 ft. (confirmed over 3 dy. period)		

STRENGTH AND PENETRATION RESISTANCE — Shear. Str. P.S.F. 2000 4000 6000 — BLOWS/FT. 0 20 40 60 80

Cone penetration test

CONSISTENCY — MOIST. CONTENT - % DRY WT. 10 20 30 40

SAMPLE	NATURAL UNIT WT P.C.F.
lost	
T1	
T2	
T3	
T4	144.3
T5	
lost	

PROJECT NO. J 367

DRAWING NO. 5

WILLIAM A. TROW AND ASSOCIATES

SITE INVESTIGATIONS AND SOIL MECHANICS CONSULTATION

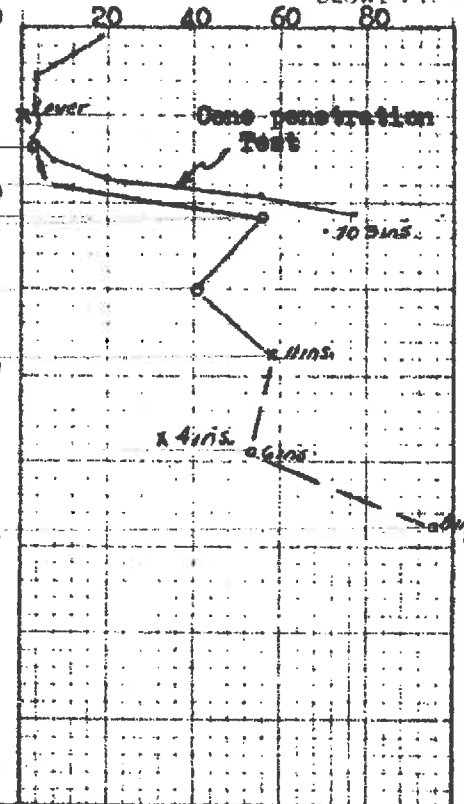
LEGEND
- 2" DIA. SPLIT TUBE
- 2" SHELBY TUBE
- 2" SPLIT TUBE
- 2" DIA. CONE
- CASING
- 2" SHELBY
- 1/2 UNCONFINED COMPRESSION (Qu)
- VANE TEST (C) AND SENSITIVITY (S)
- NATURAL MOISTURE AND LIQUIDITY INDEX
- LIQUID LIMIT
- PLASTIC LIMIT

PROJECT C.N.R. Underpass Hwy.10
LOCATION Pt. Credit Ont.
HOLE LOCATION See Dwg.1
HOLE ELEVATION AND DATUM 279.3

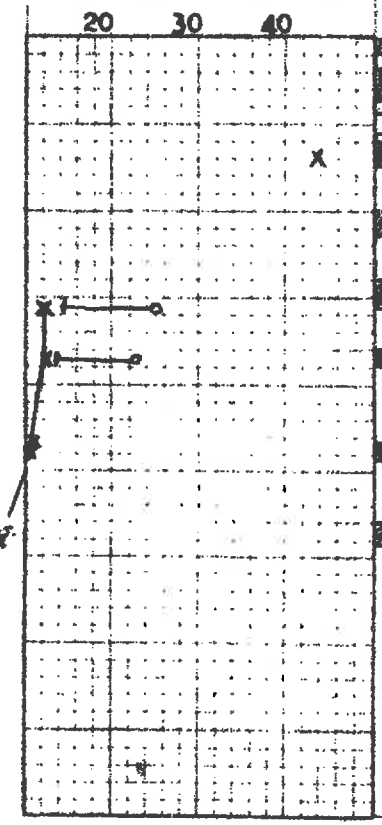
BOREHOLE NO. 156-4
FIELD SUPERVISOR WT
DRILLER
PREP. WT

SYMBOL	DESCRIPTION	ELEV. FEET	DEPTH FEET
85.1	Ground surface	279.3	0
84.2	Dry cinders	276.3	
83.5	Dense br. sandy clay fill with large gravel	274	
1.6	Wet clayey sand topsoil becoming wet brown uniform fine sand		10
81.4		267	
	Very stiff brown clay	266	
4.0	Hard grey sandy clayey silt with gravel - coarser gravel and boulders below 19 ft.		20
77.1		253	
8.0	Very dense slightly cohesive silty sand with gravel. Numerous limestone slabs and boulders below 30 ft.		30
3.3			
73.8		242.2	
11.3			40

STRENGTH AND PENETRATION RESISTANCE P.S.F. BLOWS/FT.



CONSISTENCY MOIST. CONTENT - % DRY WT.



SAMPLE | NATURAL UNIT WT P.C.F.

NOTES: 1) Dug test pit through cinders and clay fill to 4.9 ft. adjacent to hole - dry and hard with gravel at 4.9 ft.

2) Drove 3 in. pipe to depth 10 ft. washed out and withdrew. Immediate water level - 3.1 ft.; water level after 30 hrs. - 3.5 ft. or Elev. 275.8

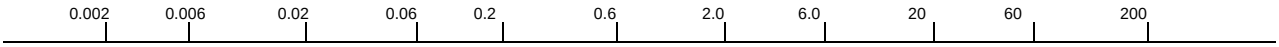
4TRANSIT, PARSONS, HATCH, WSP, REGIONAL EXPRESS RAIL – TECHNICAL ADVISORY SERVICES, PORT CREDIT GO STATION, MISSISSAUGA, ONTARIO, DATED JUNE 2018

Notes on Sample Descriptions

1. All sample descriptions included in this report generally follow the Unified Soil Classification. Laboratory grain size analyses provided by SPL also follow the same system. Different classification systems may be used by others, such as the system by the International Society for Soil Mechanics and Foundation Engineering (ISSMFE). Please note that, with the exception of those samples where a grain size analysis and/or Atterberg Limits testing have been made, all samples are classified visually. Visual classification is not sufficiently accurate to provide exact grain sizing or precise differentiation between size classification systems.

ISSMFE SOIL CLASSIFICATION

CLAY	SILT			SAND			GRAVEL			COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE		



EQUIVALENT GRAIN DIAMETER IN MILLIMETRES

CLAY (PLASTIC) TO	FINE	MEDIUM	CRS.	FINE	COARSE
SILT (NONPLASTIC)	SAND			GRAVEL	

UNIFIED SOIL CLASSIFICATION

2. Fill: Where fill is designated on the borehole log it is defined as indicated by the sample recovered during the boring process. The reader is cautioned that fills are heterogeneous in nature and variable in density or degree of compaction. The borehole description may therefore not be applicable as a general description of site fill materials. All fills should be expected to contain obstruction such as wood, large concrete pieces or subsurface basements, floors, tanks, etc., none of these may have been encountered in the boreholes. Since boreholes cannot accurately define the contents of the fill, test pits are recommended to provide supplementary information. Despite the use of test pits, the heterogeneous nature of fill will leave some ambiguity as to the exact composition of the fill. Most fills contain pockets, seams, or layers of organically contaminated soil. This organic material can result in the generation of methane gas and/or significant ongoing and future settlements. Fill at this site may have been monitored for the presence of methane gas and, if so, the results are given on the borehole logs. The monitoring process does not indicate the volume of gas that can be potentially generated nor does it pinpoint the source of the gas. These readings are to advice of the presence of gas only, and a detailed study is recommended for sites where any explosive gas/methane is detected. Some fill material may be contaminated by toxic/hazardous waste that renders it unacceptable for deposition in any but designated land fill sites; unless specifically stated the fill on this site has not been tested for contaminants that may be considered toxic or hazardous. This testing and a potential hazard study can be undertaken if requested. In most residential/commercial areas undergoing reconstruction, buried oil tanks are common and are generally not detected in a conventional preliminary geotechnical site investigation.

3. Till: The term till on the borehole logs indicates that the material originates from a geological process associated with glaciation. Because of this geological process the till must be considered heterogeneous in composition and as such may contain pockets and/or seams of material such as sand, gravel, silt or clay. Till often contains cobbles (60 to 200 mm) or boulders (over 200 mm). Contractors may therefore encounter cobbles and boulders during excavation, even if they are not indicated by the borings. It should be appreciated that normal sampling equipment cannot differentiate the size or type of any obstruction. Because of the horizontal and vertical variability of till, the sample description may be applicable to a very limited zone; caution is therefore essential when dealing with sensitive excavations or dewatering programs in till materials.

Explanation of Terms Used in the Record of Boreholes

Sample Type

AS	Auger sample
BS	Block sample
CS	Chunk sample
DO	Drive open
DS	Dimension type sample
FS	Foil sample
RC	Rock core
SC	Soil core
SS	Spoon sample
ST	Slotted tube
TO	Thin-walled, open
TP	Thin-walled, piston
WS	Wash sample

Penetration Resistance

Standard Penetration Resistance (SPT), N:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in) required to drive a 50 mm (2 in) drive open sampler for a distance of 300 mm (12 in).

Dynamic Cone Penetration Resistance, N_d:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in) to drive uncased a 50 mm (2 in) diameter, 60° cone attached to "A" size drill rods for a distance of 300 mm (12 in).

Textural Classification of Soils

Classification	Particle Size
Boulders	>300 mm
Cobbles	75 mm-300 mm
Gravel	4.75 mm-75 mm
Sand	0.075 mm-4.75 mm
Silt	0.002 mm-0.075 mm
Clay	<0.002 mm

Coarse Grain Soil Description (50% greater than 0.075 mm)

Terminology	Proportion
Trace	0-10%
Some	10-20%
Adjective (e.g. silty or sandy)	20-40%
And (e.g. sand and gravel)	40-60%

Soil Description

a) Cohesive Soils

Consistency	Undrained Shear Strength (kPa)	SPT "N" Value
Very soft	<12	0-2
Soft	12-25	2-4
Firm	25-50	4-8
Stiff	50-100	8-15
Very stiff	100-200	15-30
Hard	>200	>30

b) Cohesionless Soils

Density Index (Relative Density)	SPT "N" Value
Very loose	<4
Loose	4-10
Compact	10-30
Dense	30-50
Very dense	>50

Soil Tests

w	Water content
w_p	Plastic limit
w_l	Liquid limit
C	Consolidation (oedometer) test
CID	Consolidated isotropically drained triaxial test
CIU	consolidated isotropically undrained triaxial test with porewater pressure measurement
D_R	Relative density (specific gravity, Gs)
DS	Direct shear test
ENV	Environmental/ chemical analysis
M	Sieve analysis for particle size
MH	Combined sieve and hydrometer (H) analysis
MPC	Modified proctor compaction test
SPC	Standard proctor compaction test
OC	Organic content test
U	Unconsolidated Undrained Triaxial Test
V	Field vane (LV-laboratory vane test)
γ	Unit weight

RECORD OF BOREHOLE PC-BH01

METROLINX
An agency of the Government of Ontario
Une agence du gouvernement de l'Ontario

PROJECT : RER TA SERVICES - Port Credit GO Station
LOCATION : N 4,824,055 E 297,767
STARTED : January 18, 2018
COMPLETED : January 18, 2018

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm
PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

SHEET 1 of 2
DATUM GEODETIC

DEPTH SCALE (metres)	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	ORGANIC VAPOUR READINGS (ppm) / % LEL - (methane)	SHEAR STRENGTH: Cu, KPa (nat V, rem V, Q, U) / WATER CONTENT, PERCENT (wp, w, wl)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE		83.86							
		100mm ASPHALT		0.00							Flush Mount Cover 83.56
		Greyish brown, moist, very dense, SAND WITH GRAVEL, trace silt; FILL (SP-SM)		83.26	1	SS	84		5		Sand 83.26
		Black, moist, very dense, SILTY SAND mixed with slag /cinders, trace clay; FILL (SM)		0.6 82.96					22		
		Brown, moist to wet, compact to dense, SILT, trace sand, trace clay; (ML)		0.9	2	SS	27		23		
2					3	SS	29		18	NP	0 9 83 8
					4	SS	45		15		
		Grey, moist, stiff to hard, SILTY CLAY, with sand to sandy, trace gravel; TILL (CL)		80.81 3.05	5	SS	12		13		
4	Power Auger / Hollow Stem Augers										
					6	SS	30		10 15 25		9 30 42 19
											Holeplug
6		contains shale fragmentss below 6.1m			7	SS	40		10		6.6m BGL May 04 2018
				76.24 7.62	8	SS	50/ 425mm				
8	Power Auger / HQ Rock Coring				1	CORE					
					2	CORE					

Depth Scale
1 : 50

GROUNDWATER ELEVATIONS

▽ TERMINATION OF DRILLING
WATER LEVEL (date)

▼ PIEZOMETER/MONITORING WELL
WATER LEVEL (date)

LOGGED : FL
CHECKED : JB

4TRANSIT
PARSONS HATCH WSP

LIBRARY-TTC-4TRANSIT-WSP-2018.GLB
4TRANSIT-OVERBURDEN-2018_17M-00334-01-PORT CREDIT GO.GPJ TTC.GDT 9/14/18

RECORD OF BOREHOLE PC-BH01

METROLINX
An agency of the Government of Ontario
Une agence du gouvernement de l'Ontario

PROJECT : RER TA SERVICES - Port Credit GO Station
LOCATION : N 4,824,055 E 297,767
STARTED : January 18, 2018 SAMPLER HAMMER, 63.5 kg; DROP, 760 mm SHEET 2 of 2
COMPLETED : January 18, 2018 PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm DATUM GEODETIC

DEPTH SCALE (metres)	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	ORGANIC VAPOUR READINGS (ppm) 10 20 30 40 ⊗ / % LEL - (methane) 40 80 120 160 □	SHEAR STRENGTH: Cu, KPa (nat V - ✚, rem V - ●, Q - ✖, U - ▲) 20 40 60 80 / WATER CONTENT, PERCENT wp w wl 10 20 30 40	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
12	Power Auger / HQ Rock Coring	Slightly weathered to fresh, thinly laminated to medium bedded, grey, very weak to medium strong SHALE (98%~61%), interbedded with slightly weathered to fresh, light grey, thinly laminated to thinly bedded, medium strong to very strong SILTSTONE /LIMESTONE (2%~39%) (Georgian Bay Formation) Siltstone and limestone (hard) layers generally less than 50 mm thickness, except the following depth: Depth (m) Thickness (mm) 8.88 50 9.84 50 10.72 50 11.16 90 11.40 70 11.66 85 11.75 95 11.85 60 12.32 80 Coring start from 7.92m Refer to rock core log.(Continued)			2	CORE					Holeplug 71.97 Sand 71.62
					3	CORE					
14					4	CORE					Screen
					5	CORE					
				68.57							68.57
16		**END OF BOREHOLE** Notes: 1) Borehole terminated at planned depth. 2) 50mm dia. monitoring well was installed, screened from 12.24m to 15.29m. Water level measurements in well: Date Depth (m) Elevation (m) March 13, 2018 7.60 76.26 March 20, 2018 6.69 77.17 May 04, 2018 6.56 77.30		15.29							
18											

Depth Scale
1 : 50

GROUNDWATER ELEVATIONS

▽ TERMINATION OF DRILLING
WATER LEVEL (date)

▼ PIEZOMETER/MONITORING WELL
WATER LEVEL (date)

LOGGED : FL
CHECKED : JB

4TRANSIT
PARSONS HATCH WSP

LIBRARY-TTC-4TRANSIT-WSP-2018.GLB
4TRANSIT-OVERBURDEN-2018_17M-00334-01-PORT CREDIT GO.GPJ TTC.GDT 9/14/18

RECORD OF COREHOLE PC-BH01

METROLINX
An agency of the Government of Ontario
Une agence du gouvernement de l'Ontario

PROJECT : RER TA SERVICES - Port Credit GO Station
LOCATION : N 4,824,055 E 297,767
STARTED : January 18, 2018
COMPLETED : January 18, 2018
INCLINATION: Vertical AZIMUTH: Vertical
SHEET 1 of 1
DATUM GEODETIC

FR-FRACTURE CL-CLEAVAGE SH-SHEAR VN-VEIN
F-FAULT J-JOINT P-POLISHED S-SLICKENSIDED
SM-SMOOTH R-ROUGH ST-STEPPED PL-PLANAR
V-VERTICAL I-INCLINED H-HORIZONTAL
FL-FLEXURED UE-UNEVEN W-WAVY C-CURVED

DEPTH SCALE (metres)	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	Color / FLUSH Return/Lost	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER .3 m	DISCONTINUITY DATA DIP Vertical Inclined Horizontal	DISCONTINUITY DATA TYPE AND SURFACE DESCRIPTION	HYDRAULIC CONDUCTIVITY k, cm/sec	SPLITTING TENSILE STRENGTH (POINT LOAD INDEX (MPa))	NOTES WATER LEVELS INSTRUMENTATION
	1/18/2018 Hollow Stem Augers	Slightly weathered to fresh, thinly laminated to medium bedded, grey, very weak to medium strong SHALE (98%~61%), interbedded with slightly weathered to fresh, light grey, thinly laminated to thinly bedded, medium strong to very strong SILTSTONE /LIMESTONE (2%~39%) (Georgian Bay Formation) Siltstone and limestone (hard) layers generally less than 50 mm thickness, except the following depth: Depth (m) Thickness (mm) 8.88 50 9.84 50 10.72 50 11.16 90 11.40 70 11.66 85 11.75 95 11.85 60 12.32 80 Coring start from 7.92m Refer to rock core log.		7.62											
8					1	grey						Slightly weathered to fresh from 7.92m to end of borehole, except noted soft layers. Fragmented /Broken zone: 7.92-8.15m Fracture: 8.18-8.22m Fracture: 8.53-8.69m Fracture: 8.88-8.93m Fracture: 9.08-9.14m			
10	HQ Rock Coring				2	grey						Fracture: 9.51-9.55m Fracture: 9.63-9.65m			Holeplug
12					3	grey						Broken zone: 10.72-10.90m Fracture: 10.72-10.77m Fracture: 11.16-11.25m Fragmented zone: 11.25-11.30m 11.47-11.54m 11.95-12.14m Fracture: 11.25-11.30m Fracture: 11.75-11.85m Fracture: 11.91-11.95m Soft layer at 11.95m, thickness 190mm, W3			71.97 Sand 71.62
14					4	grey						Fracture: 12.45-12.47m Fragmented zone: 12.48-12.74m Soft layer at 12.52m, thickness 220mm, W4/W3			Screen
					5	grey									
				68.57											68.57
16		**END OF BOREHOLE** Notes: 1) Borehole terminated at planned depth. 2) 50mm dia. monitoring well was installed, screened from 12.24m to 15.29m. Water level measurements in well: Date Depth (m) Elevation (m) March 13, 2018 7.60 76.26 March 20, 2018 6.69 77.17 May 04, 2018 6.56 77.30		15.29											

GROUNDWATER ELEVATIONS

▽ TERMINATION OF DRILLING
WATER LEVEL (date)

▼ PIEZOMETER/MONITORING WELL
WATER LEVEL (date)

LOGGED : FL
CHECKED : JB

4TRANSIT
PARSONS HATCH WSP

LIBRARY:-TTC-4TRANSIT-WSP-2018.GLB
4TRANSIT-ROCK CORE-2018_17M-00334-01-PORT CREDIT GO.GPJ TTC.GDT 9/14/18

RECORD OF BOREHOLE PC-BH03

METROLINX
An agency of the Government of Ontario
Une agence du gouvernement de l'Ontario

PROJECT : RER TA SERVICES - Port Credit GO Station
LOCATION : N 4,824,025 E 297,795
STARTED : January 17, 2018 — SAMPLER HAMMER, 63.5 kg; DROP, 760 mm — SHEET 1 of 2
COMPLETED : January 17, 2018 — PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm — DATUM GEODETIC

DEPTH SCALE (metres)	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	ORGANIC VAPOUR READINGS (ppm) / % LEL - (methane)	SHEAR STRENGTH: Cu, KPa (nat V, rem V, Q, U) / WATER CONTENT, PERCENT (wp, w, wl)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION / Gravel Sand Silt Clay (Fine)
		GROUND SURFACE		82.00							
	Power Auger / Hollow Stem Augers	Brownish grey, moist, very dense, SAND WITH GRAVEL, trace silt; FILL (SP-SM)		0.00	1	SS	65				Flush Mount Cover 81.7; Sand 81.4
				81.2							
		Brown, wet, very dense to loose, SILT with sand, trace clay; (ML)		0.8	2	SS	20		19	NP	0 17 77 6
2					3	SS	45		19		
					4	SS	8		24		
				79.2							
		Grey, moist, stiff to hard, SILTY CLAY, with sand to sandy, trace gravel; TILL (CL)		2.8	5	SS	20		10		
4		contains limestone fragments below 4.6m			6	SS	33		10		5.0m BGL May 04 2018; Holeplug
				76.4							
		Grey, moist, hard, CLAYEY SILT, sandy, trace to with gravel, contains shale and limestone fragments; TILL (CL-ML)		5.6	7	SS	65/275mm		10 15 22		13 35 40 12
6		contains shale and limestone fragments below 7.6m			8	NR	50/0mm				
				73.41							
	Power Auger / HQ Rock Coring			8.59	1	CORE					
8					2	CORE					

Depth Scale 1 : 50

GROUNDWATER ELEVATIONS

▽ TERMINATION OF DRILLING
WATER LEVEL (date)

▼ PIEZOMETER/MONITORING WELL
WATER LEVEL (date)

LOGGED : FL
CHECKED : JB

4TRANSIT
PARSONS HATCH WSP

LIBRARY-TTC-4TRANSIT-WSP-2018.GLB
4TRANSIT-OVERBURDEN-2018_17M00334-01-PORT CREDIT GO.GPJ TTC.GDT 9/14/18

RECORD OF BOREHOLE PC-BH03

METROLINX
An agency of the Government of Ontario
Une agence du gouvernement de l'Ontario

PROJECT : RER TA SERVICES - Port Credit GO Station
LOCATION : N 4,824,025 E 297,795
STARTED : January 17, 2018 SAMPLER HAMMER, 63.5 kg; DROP, 760 mm SHEET 2 of 2
COMPLETED : January 17, 2018 PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm DATUM GEODETIC

DEPTH SCALE (metres)	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	ORGANIC VAPOUR READINGS (ppm) 10 20 30 40 ⊗ / % LEL - (methane) 40 80 120 160 □	SHEAR STRENGTH: Cu, KPa (nat V - ✤, rem V - ●, Q - ✖, U - ▲) 20 40 60 80 / WATER CONTENT, PERCENT wp w wl 10 20 30 40	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
12	Power Auger / HQ Rock Coring	Slightly weathered to fresh, thinly laminated to medium bedded, grey, weak to medium strong SHALE (97%~69%), interbedded with slightly weathered to fresh, light grey, thinly laminated to thinly bedded, medium strong to very strong SILTSTONE /LIMESTONE (3%~31%) (Georgian Bay Formation) Siltstone and limestone (hard) layers generally less than 50 mm thickness, except the following depth: Depth (m) Thickness (mm) 9.37 50 9.63 70 10.19 50 10.29 70 10.58 50 10.64 100 10.74 230 11.11 60 13.59 50 Rock surface start from 8.59m Refer to rock core log.(Continued)			2	CORE					Holeplug 70.42 Sand 69.88
					3	CORE					
14					4	CORE					Screen
					5	CORE					
				66.84							66.84
16		**END OF BOREHOLE** Notes: 1) Borehole terminated at planned depth. 2) 50mm dia. monitoring well was installed, screened from 12.12m to 15.16m. Water level measurements in well: Date Depth (m) Elevation (m) March 13, 2018 4.87 77.13 March 20, 2018 5.10 76.90 May 04, 2018 4.96 77.04		15.16							
18											

Gravel Sand Silt Clay (Fine)

Depth Scale
1 : 50

GROUNDWATER ELEVATIONS
▽ TERMINATION OF DRILLING
WATER LEVEL (date)
▼ PIEZOMETER/MONITORING WELL
WATER LEVEL (date)

LOGGED : FL
CHECKED : JB

4TRANSIT
PARSONS HATCH WSP

LIBRARY-TTC-4TRANSIT-WSP-2018.GLB
4TRANSIT-OVERBURDEN-2018_17M-00334-01-PORT CREDIT GO.GPJ TTC.GDT 9/14/18

RECORD OF COREHOLE PC-BH03

METROLINX
An agency of the Government of Ontario
Une agence du gouvernement de l'Ontario

PROJECT : RER TA SERVICES - Port Credit GO Station
LOCATION : N 4,824,025 E 297,795
STARTED : January 17, 2018
COMPLETED : January 17, 2018
INCLINATION: Vertical AZIMUTH: Vertical
SHEET 1 of 1
DATUM GEODETIC

FR-FRACTURE CL-CLEAVAGE SH-SHEAR VN-VEIN
F-FAULT J-JOINT P-POLISHED S-SLICKENSIDED
SM-SMOOTH R-ROUGH ST-STEPPED PL-PLANAR
V-VERTICAL I-INCLINED H-HORIZONTAL
FL-FLEXURED UE-UNEVEN W-WAVY C-CURVED

DEPTH SCALE (metres)	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	Color / FLUSH Return/Lost	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER .3 m	DISCONTINUITY DATA DIP Vertical Inclined Horizontal	DISCONTINUITY DATA TYPE AND SURFACE DESCRIPTION	HYDRAULIC CONDUCTIVITY k, cm/sec	SPLITTING TENSILE STRENGTH (PSI) / LOAD INDEX (MPa)	NOTES WATER LEVELS INSTRUMENTATION
		Slightly weathered to fresh, thinly laminated to medium bedded, grey, weak to medium strong SHALE (97%~69%), interbedded with slightly weathered to fresh, light grey, thinly laminated to thinly bedded, medium strong to very strong SILTSTONE /LIMESTONE (3%~31%) (Georgian Bay Formation) Siltstone and limestone (hard) layers generally less than 50 mm thickness, except the following depth: Depth (m) Thickness (mm) 9.37 50 9.63 70 10.19 50 10.29 70 10.58 50 10.64 100 10.74 230 11.11 60 13.59 50 Rock surface start from 8.59m Refer to rock core log.		8.59	1	grey	20 40 60 80	20 40 60 80	20 40 60 80	5 10 15 20	0 30 60 90	Slightly weathered to fresh from 8.59m to end of borehole, excepted noted.	10^{-6} 10^{-5} 10^{-4} 10^{-3}	2 4 6	41
10	HQ Rock Coring				2	grey						Fragmented zone: 9.41-9.45m Broken /Fragmented zone: 9.70-10.19m Soft layer at: 9.80m, thickness 40mm, W3 Fracture: 10.13-10.20m Fracture: 10.29-10.36m			9 65 Holeplug
					3	grey						Soft layer at: 11.05m, thickness 10mm, W5 11.20m, thickness 15mm, W5 11.79m, thickness 15mm, W4/W3 Fragmented zone: 11.23-11.25m Fracture: 11.23-11.25m Fragmented zone: 11.95-11.98m Fracture: 1195-11.98m			61 21 70.42 Sand
12					4	grey						Soft layer at: 12.46m, thickness 3mm, W5 Fracture: 13.26-13.28m			69.88 23
					5	grey						Soft layer at: 13.65m, thickness 10mm, W5 13.97m, thickness 10mm, W5			Screen 24
14				66.84											66.84
		END OF BOREHOLE Notes: 1) Borehole terminated at planned depth. 2) 50mm dia. monitoring well was installed, screened from 12.12m to 15.16m. Water level measurements in well: Date Depth (m) Elevation (m) March 13, 2018 4.87 77.13 March 20, 2018 5.10 76.90 May 04, 2018 4.96 77.04		15.16								Soft layer at: 15.11m, thickness 20mm, W5			
16															
18															

GROUNDWATER ELEVATIONS

▽ TERMINATION OF DRILLING
WATER LEVEL (date)

▼ PIEZOMETER/MONITORING WELL
WATER LEVEL (date)

LOGGED : FL
CHECKED : JB

4TRANSIT PARSONS HATCH WSP

LIBRARY-TTC-4TRANSIT-WSP-2018.GLB
4TRANSIT-ROCK CORE-2018_17M-00334-01-PORT CREDIT GO.GPJ TTC.GDT 9/14/18

RECORD OF BOREHOLE PC-BH03-PQ

METROLINX
An agency of the Government of Ontario
Une agence du gouvernement de l'Ontario

PROJECT : RER TA SERVICES - Port Credit GO Station
LOCATION : N 4,824,025 E 297,795
STARTED : May 10, 2018
COMPLETED : May 10, 2018

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm
PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

SHEET 1 of 1
DATUM GEODETIC

DEPTH SCALE (metres)	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/0.3m	PQ Core Run Number	PQ Core Water Return / Water Lost	PQ Core TCR (%)	TOTAL CORE RECOVERY %	SHEAR STRENGTH: Cu, KPa (nat V - ✤, rem V - ●, Q - ✖, U - ▲) 20 40 60 80	WATER CONTENT, PERCENT wp w wl 10 20 30 40	ADDITIONAL LAB. TESTING	NOTES WATER LEVEELS INSTRUMENTATION
		GROUND SURFACE		82.00											
	Power Auger / 90mm PQ CORING	100mm ASPHALT		0.00											
		No recovery from 0.10m to 0.80m. Inferred granular base /subbase		81.2				1		7 %					
2		No recovery from 0.80m to 1.52m and very low recovery from 1.52m to 3.05m. Inferred native soil - silt /sandy silt from 0.8m to 2.9m		0.8				2		7 %					
				79.1											
4		Grey, moist, SILTY CLAY, with sand to sandy, trace gravel, contains cobbles; TILL (CL)		2.9				3		100 %					
		sandy silt seams at 5.1m						4		42 %					
6				75.7											
		END OF BOREHOLE Notes: 1) Borehole terminated at planned depth.		6.3											
8															

Gravel Sand Silt Clay (Fine)

Depth Scale
1 : 50

GROUNDWATER ELEVATIONS

▽ TERMINATION OF DRILLING
WATER LEVEL (date)

▼ PIEZOMETER/MONITORING WELL
WATER LEVEL (date)

LOGGED : FL
CHECKED : JB

4TRANSIT
PARSONS HATCH WSP

LIBRARY-TTC-4TRANSIT-WSP-2018.GLB
4TRANSIT-PQ CORE-2018 17M-00334-01-PORT CREDIT GO.GPJ TTC.GDT 9/14/18

RECORD OF BOREHOLE PC-BH04

METROLINX
An agency of the Government of Ontario
Une agence du gouvernement de l'Ontario

PROJECT : RER TA SERVICES - Port Credit GO Station
LOCATION : N 4,823,925 E 297,714
STARTED : January 18, 2018 SAMPLER HAMMER, 63.5 kg; DROP, 760 mm SHEET 1 of 1
COMPLETED : January 18, 2018 PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm DATUM GEODETIC

DEPTH SCALE (metres)	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	ORGANIC VAPOUR READINGS (ppm) ⊗ / % LEL - (methane) □	SHEAR STRENGTH: Cu, KPa (nat V - ✤, rem V - ●, Q - ✖, U - ▲) / WATER CONTENT, PERCENT (wp, w, wl)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE		83.61							
	Power Auger / Hollow Stem Augers	Light brown, moist, very dense, SAND AND GRAVEL WITH CRUSHED LIMESTONE, trace silt; FILL (SP-SM)		0.00	1	SS	95	⊗	7 ○		Flush Mount Cover 83.31
				82.7							Sand 83.01
		Dark brown to black, moist, compact to loose, SANDY SILT with slag /cinders, trace clay; FILL (ML)		0.91	2	SS	16	⊗	23 ○		Holeplug
		black below 1.5m			3	SS	9	⊗	15 ○		81.78
2				81.32							Sand 81.48
		Brown, moist, compact, SILT with clayey silt seams, trace sand; (ML)		2.29	4	SS	10	⊗	16 ○	NP	2.4m BGL Mar 04 2018 86 13
				80.56							
		Grey, moist, compact, SANDY SILT, trace clay, contains silty clay seams; (ML)		3.05	5	SS	19	⊗	16 ○		Screen
4											
					6	SS	25	⊗	14 ○		
				78.43							78.43
6		**END OF BOREHOLE**		5.18							
		Notes: 1) Borehole terminated at planned depth. 2) 50mm dia. monitoring well was installed, screened from 2.13m to 5.18m.									
8		Water level measurements in well:									

Date	Depth (m)	Elevation (m)
March 13, 2018	2.40	81.21
March 20, 2018	2.44	81.17
May 04, 2018	2.43	81.18

Depth Scale 1 : 50

GROUNDWATER ELEVATIONS

▽ TERMINATION OF DRILLING
WATER LEVEL (date)

▼ PIEZOMETER/MONITORING WELL
WATER LEVEL (date)

LOGGED : FL
CHECKED : JB

4TRANSIT
PARSONS HATCH WSP

LIBRARY-TTC-4TRANSIT-WSP-2018.GLB
4TRANSIT-OVERBURDEN-2018_17M-00334-01-PORT CREDIT GO.GPJ TTC.GDT 9/14/18

DRAFT GEOTECHNICAL DATA REPORT (REV. D), FRONT STREET STATION WASTEWATER DIVERSION REGION OF PEEL PROJECT 17-2415S, LAKESHORE ROAD WEST, MISSISSAUGA, ONTARIO, DATED JUNE 14, 2019

PROJECT: 1787556

RECORD OF BOREHOLE: 1

SHEET 1 OF 2

LOCATION: N 4822900.38; E 614107.51

BORING DATE: May 16 and 18, 2018

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ (ND = Not Detected; 20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ (ND = Not Detected; 20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp, W, Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION / GRAIN SIZE DISTRIBUTION (%)
		GROUND SURFACE		77.54						GR SA SI CL
0	Power Auger 171 mm O.D., 83 mm I.D., Hollow Stem Augers	TOPSOIL (150 mm)		0.00						
		FILL - (CL) Sandy SILTY CLAY, some gravel; brown; cohesive, w~PL, firm		0.15	1	SS	6	ND		
				76.85						
1		FILL - (SM) SILTY SAND, some gravel; brown; non-cohesive, moist, loose		0.69	2	SS	6	ND		7 66 24 3
				76.09						
		(CL) SILTY CLAY, some sand to sandy, trace to some gravel; brown to dark grey; w~PL to w>PL, very soft to stiff		1.45	3	SS	7			06/07/19
2		- Trace organics between depths of 2.3 m and 3.7 m.			4	SS	3	ND	52.4	Bentonite
3					5	SS	2	ND	76.2	
4					6	SS	12	ND		Sand
				73.05						
		(CL) SILTY CLAY and SAND, some gravel; brown to grey (TILL); cohesive, w<PL, very stiff to hard		4.49	7	SS	29	ND		9 39 39 13
5					8	SS	92/0.28			
6					9	SS	42			Screen
7					10	SS	50/0.03			
				70.16	11	SS	50/0.08			
		SHALE (BEDROCK)		7.38						
		For rock coring details refer to Record of Drillhole 1								
8										
9										
10										

DEPTH SCALE

1 : 50

GOLDER

LOGGED: EN

CHECKED: ARV

GTA-BHS 005 S:\CLIENTS\REGION_OF_PEEL\FRONTSTW\WPS_LAKESHORERDW02_DATA\GINT\FRONTSTWWPS_LAKESHORERDW.GPJ GAL-MIS.GDT 19-6-13

PROJECT: 1787556

RECORD OF DRILLHOLE: 1

SHEET 2 OF 2

LOCATION: N 4822900.38 ;E 614107.51

DRILLING DATE: May 16 and 18, 2018

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: Davis Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 1		70.16															
	Rotary Diamond Drill HQ3 Core	Highly weathered to slightly weathered, thinly laminated to medium bedded, grey, fine grained, non to faintly porous, weak to medium strong SHALE with medium strong to strong interbeds of LIMESTONE/SILTSTONE (Georgian Bay Formation)		7.38	1	NR						,,,,,,IN,CL,200 mm	1	15	0			Clay	Screen
												CO,UN,RO,SO	3	1	22			BC	
8		Limestone/Siltstone Layers: 7.64 m-7.67 m										CO,UN,SM	2	1	20			BC	
												CO,PL,SM,PC	1	3	12			BC	
												CO,PL,SM,SA	1	2	12			BC	
					2	NR						CO,PL,SM,SA	1	2	12				
												CO,UN,RO	1.5	1	22				
9		Limestone/Siltstone Layers: 7.92 m-7.99 m, 8.04 m-8.15 m, 8.18 m-8.20 m										BD,PL,SM,SA	1	2	12				
												BD,PL,SM,IN,CL,20 mm	1	15	0			Clay	Bentonite
		Limestone/Siltstone Layers: 10.19 m-10.22 m, 10.45 m-10.50 m																	
10																			
					3	NR						CO,PL,SM	1	1	16				
												CO,PL,SM,SA	1	2	12				
												BD,PL,SM,SA	1	2	12				
11				66.37															
		END OF DRILLHOLE		11.17															
12		NOTE:																	
		1. Groundwater level measurements in monitoring well:																	
		Date 05/17/18 06/26/18 09/17/18 11/08/18 05/16/19 / Depth (m) 2.00 2.44 2.80 2.94 1.85 / Elev. (m) 75.54 75.10 74.74 74.60 75.60																	
13																			
14																			
15																			
16																			
17																			

DEPTH SCALE
1 : 50

GOLDER

LOGGED: EN
CHECKED: SEC/ARV

GTA-RCK 046 S:\CLIENTS\REGION_OF_PEEL\FRONTSTWWPS_LAKESHORERDW02_DATA\GINT\FRONTSTWWPS_LAKESHORERDW.GPJ GAL-MISS.GDT 19-6-13

PROJECT: 1787556

RECORD OF BOREHOLE: 1-2

SHEET 1 OF 1

LOCATION: N 4822908.17; E 614105.72

BORING DATE: May 16, 2018

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ (ND = Not Detected) 20 40 60 80 / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ (ND = Not Detected) 20 40 60 80	HYDRAULIC CONDUCTIVITY, k, cm/s 10^{-6} 10^{-5} 10^{-4} 10^{-3} / WATER CONTENT PERCENT Wp W Wl 10 20 30 40	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION / GRAIN SIZE DISTRIBUTION (%)
		GROUND SURFACE		76.95						GR SA SI CL
0		TOPSOIL (150 mm)		0.00						
		FILL - (SM) SILTY SAND; brown; non-cohesive, moist to wet, loose to compact		0.15	1	SS	10	ND		
1					2	SS	7			06/07/19
		FILL - (SP/GP) SAND and GRAVEL, some fines; brown, containing brick fragments; non-cohesive, wet, loose		75.51 1.44	3	SS	5	ND		Bentonite
2		(SM/ML) SAND and SILT, some gravel; dark grey, trace organics, hydrocarbon odour; non-cohesive, wet, very loose		74.74 2.21	4	SS	3	ND		12 47 35 6 Sand
	Power Auger 171 mm O.D., 83 mm. I.D., Hollow Stem Augers	(CI/CH) SILTY CLAY to CLAY, some sand, some gravel; dark grey, containing wood fragments and organics, hydrocarbon odour; cohesive, w>PL, very soft to stiff		73.98 2.97	5	SS	11	ND		
3										
4										
					6	SS	2		54 55.8	8 12 65 15
5										Screen
6					7	SS	19	ND		Bentonite
				70.24						
7		END OF BOREHOLE		6.71						
8		NOTES: 1. Groundwater level at a depth 1.5 m (Elev. 75.5 m) below ground surface upon completion of drilling. 2. Groundwater level measurements in monitoring well:								
9										
10										

Date	Depth (m)	Elev. (m)
06/26/18	2.15	74.80
09/17/18	2.33	74.62
05/6/19	1.34	75.61
06/07/19	1.21	75.74

DEPTH SCALE

1 : 50

GOLDER

LOGGED: EN

CHECKED: ARV

GTA-BHS 005 S:\CLIENTS\REGION_OF_PEEL\FRONTSTW\WPS_LAKESHORERDW02_DATA\GINT\FRONTSTWWPS_LAKESHORERDW.GPJ GAL-MIS.GDT 19-6-13

PROJECT: 1787556

RECORD OF BOREHOLE: 1-3

SHEET 1 OF 1

LOCATION: N 4822908.33; E 614095.72

BORING DATE: May 16, 2018

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ (ND = Not Detected) 20 40 60 80 / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ (ND = Not Detected) 20 40 60 80	HYDRAULIC CONDUCTIVITY, k, cm/s 10^{-6} 10^{-5} 10^{-4} 10^{-3} / WATER CONTENT PERCENT Wp W Wl 10 20 30 40	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION / GRAIN SIZE DISTRIBUTION (%)
		GROUND SURFACE		76.91						GR SA SI CL
0		TOPSOIL (203 mm)		0.00 / 76.71						
		FILL - (SM) SILTY SAND, trace gravel to gravelly; brown; non-cohesive, moist, loose		0.20	1	SS	9	ND		
1					2	SS	4	ND		05/16/19
				75.46						
		FILL - (CL) SILTY CLAY, some sand, some gravel; grey and brown, containing organics; cohesive, w~PL, soft to firm		1.45	3	SS	5	ND		Bentonite
2					4	SS	3			Sand
				73.94						
3	Power Auger 171 mm O.D., 83 mm I.D., Hollow Stem Augers	(ML) SILT, some sand; dark brown, trace organics and rootlets; non-cohesive, moist, very loose		2.97	5	SS	2	ND	67	0 11 80 9
				73.18						
		(CL) SILTY CLAY, some sand; brown to dark grey; cohesive, w~PL, very soft		3.73	6	SS	1	ND		
4					7A	SS	20	ND		Screen
				72.03						
		(CL) SILTY CLAY, some sand to sandy, some gravel; grey, containing shale fragments (TILL); cohesive, w<PL, very stiff to hard		4.88	7B			ND		
5					8	SS	46	ND		6 12 63 19
6					9	SS	45	□ ⊕		Bentonite
				70.20						
		END OF BOREHOLE		6.71						
7		NOTES:								
		1. Groundwater level at a depth 1.7 m (Elev. 75.2 m) below ground surface upon completion of drilling.								
		2. Groundwater level measurements in monitoring well:								
8		Date Depth (m) Elev. (m) 08/16/18 1.72 75.19 05/16/19 1.16 75.75								
9										
10										

DEPTH SCALE

1 : 50

GOLDER

LOGGED: EN

CHECKED: ARV

GTA-BHS 005 S:\CLIENTS\REGION_OF_PEEL\FRONTSTW\WPS_LAKESHORERDW02_DATA\GINT\FRONTSTWWPS_LAKESHORERDW.GPJ GAL-MIS.GDT 19-6-13

PROJECT: 1787556

RECORD OF BOREHOLE: 35

SHEET 1 OF 2

LOCATION: N 4822873.60; E 614135.20

BORING DATE: August 31, 2018

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80)	SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3})	WATER CONTENT PERCENT (Wp — W — Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION / GRAIN SIZE DISTRIBUTION (%)
		GROUND SURFACE		77.35									GR SA SI CL
0	Power Auger 171 mm O.D., 83 mm. I.D., Hollow Stem Augers	ASPHALT (125 mm)		0.00									Flushmount sealed with concrete
		FILL - (SP-SM) Gravelly SAND, some fines; brown; non-cohesive, moist, compact		0.13	1	SS	26						
				76.59									
1		(ML) SILT of slight plasticity, trace sand; brown becoming grey at a depth of 2.6 m, containing silty clay seams; non-cohesive, moist to wet, compact to dense		0.76	2	SS	13						
2					3	SS	27						0 1 90 9
					4A	SS	32						02/04/19
					4B								
3					5	SS	31						Bentonite 0 1 96 3
4					6	SS	10						
				72.85									
		(CL) Sandy SILTY CLAY, some gravel; grey (TILL); non-cohesive, w<PL, very stiff		4.50	7	SS	15						10 35 40 15
5				71.86	8A								
		Grey, SHALE		5.49	8B	SS	81/ 0.20						
6				71.13	9	SS	50/ 0.12						
		SHALE (BEDROCK) For rock coring details refer to Record of Drillhole 35.		6.22									
7													
8													
9													
10													

DEPTH SCALE

1 : 50

GOLDER

LOGGED: SK

CHECKED: ARV

GTA-BHS 005 S:\CLIENTS\REGION_OF_PEEL\FRONTSTW\WPS_LAKESHORERDW02_DATA\GINT\FRONTSTWWPS_LAKESHORERDW.GPJ GAL-MIS.GDT 19-6-13

PROJECT: 1787556

RECORD OF DRILLHOLE: 35

SHEET 2 OF 2

LOCATION: N 4822873.60 ;E 614135.20

DRILLING DATE: August 31, 2018

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: Davis Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATH-ERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 35		71.13															
	Rotary Diamond Drill HQ3 Core	Moderately to slightly weathered, thinly laminated to medium bedded, grey, fine grained, none to faintly porous, weak to medium strong SHALE with medium strong to strong interbeds of LIMESTONE and SILTSTONE (Georgian Bay Formation)		6.22	1	NR						BD,UN,SM,PC,CL	2	4	16				
												BD,UN,SM,PC,CL	2	4	16				
												BD,PL,SM,SA	1	2	16				
												BD,PL,SM	1	1	16				
												BD,UN,SM,SA	2	2	20				
7												BD,UN,SM,SO	2	1	20				
					2	NR													
		Limestone/Siltstone Layers: 6.22 m-6.24 m										BD,UN,SM,PC,GO	2	4	16			Sand	
												BD,CU,SM,SA	2	2	20				
		Limestone/Siltstone Layers: 6.40 m-6.46 m, 6.94 m-6.97 m										BD,UN,SM,SA	2	2	20				
		7.22 m-7.30 m, 6.47m-6.57 m, 7.75 m-7.79 m										BD,UN,SM,IN,CL,20 mm	1	15	0			Clay	
												BD,UN,SM,PC,CL	2	4	16				
8												BD,PL,SM,IN,CL,5 mm	1	15	0			Clay	
												BD,PL,SM,CC,CL	1	4	12			BC	
		Limestone/Siltstone Layers: 7.87 m-7.94 m, 8.20 m-8.38 m, 8.77 m-7.83 m, 9.42 m-9.44 m			3	NR													
9												BD,UN,SM,SA	2	2	20			Screen	
												BD,UN,SM,SO	2	1	20				
												BD,PL,SM,PC,CL	1	4	12				
												,,,,,,IN,CL,60 mm	1	15	0			Clay	
																		BC	
10												BD,PL,SM,PC,CL	1	4	12				
					4	NR													
												BD,PL,SM,SA	1	2	16				
												BD,PL,SM,PC,CL	1	4	12				
												BD,UN,SM,SA	2	2	20				
												BD,UN,SM,SA	2	2	20				
												BD,PL,SM,PC,CL	1	4	12				
11												BD,PL,SM,PC,CL	1	4	12			LC	
												,,,,,,IN,CL,150 mm	1	15	0			Clay	
												BD,PL,SM,IN,CL,20 mm	1	15	0			Clay	
					5	NR						,,,,,,IN,CL,60 mm	1	15	0			Clay	
												BD,PL,SM,IN,CL,8 mm	1	15	0			Clay	
												BD,PL,SM,SA	1	2	16				
12												BD,UN,SM,SA	2	2	20			0.57 MPa (Axial)	
																		Grout	
																		0.57 MPa (Axial)	
												BD,UN,SM,SA	2	2	20				
												BD,PL,SM,SA	1	2	16				
												BD,UN,SM,SA	2	2	20				
					6	NR						BD,CO,SM,SA	2	1	20				
13				63.73								BD,CU,SM,SA	2	2	20				
		END OF DRILLHOLE		13.62															
14		NOTE:																	
		1. Groundwater level measurements in monitoring well:																	
15		Date 11/13/18 Depth (m) 2.74 Elev. (m) 74.61																	
		01/25/19 2.65 74.70																	
		02/04/19 2.56 74.79																	
16																			

DEPTH SCALE
1 : 50

GOLDER

LOGGED: SK
CHECKED: SEC/ARV

GTA-RCK 046 S:\CLIENTS\REGION_OF_PEEL\FRONTSTWWPS_LAKESHORERDW02_DATA\GINT\FRONTSTWWPS_LAKESHORERDW.GPJ GAL-MISS.GDT 19-6-13

GEOTECHNICAL AND HYDROGEOLOGICAL INVESTIGATIONS FOR LAKESHORE ROAD WEST, MISSISSAUGA, ONTARIO REGION OF PEEL PROJECTS 19-2215 AND 19-1120 DATED AUGUST 15, 2022 [DRAFT RECORD OF BOREHOLES / DRILLHOLES AVAILABLE ONLY)

PROJECT: 21453515

RECORD OF BOREHOLE: 21-45

SHEET 1 OF 4

LOCATION: N 4822923.63; E 614080.70

BORING DATE: September 8 to 10, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: D-50 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
0		GROUND SURFACE		76.42							
		TOPSOIL (76 mm)		0.00 / 0.08							
		FILL - (SP) SAND; trace gravel; light brown to grey; non-cohesive, moist, compact to very loose			1	SS	17	ND			
1					2	SS	9	ND			2 98 0 0
					3	SS	3	ND			
2				74.21							
		(CL-ML) SILTY CLAY to CLAYEY SILT contains organics; grey-black; cohesive, w~PL, very soft to stiff		2.21	4	SS	8	ND			
3					5	SS	3	ND		54.8	4 10 73 13
		FV = 34 kPa, remolded FV = 16 kPa, St = 2.1									
4											
					6	SS	2	ND		66 / 93.4	
5	Power Auger 171 mm O.D.;83 mm I.D.; Hollow Stem Auger										
		FV = 67 kPa, remolded FV = 29 kPa, St = 2.3									
6											
7					7	SS	3	ND			
8		FV = 57 kPa, remolded FV = 55 kPa, St = 3.0									
9					8	SS	2	ND		58.9	
10		*CONTINUED NEXT PAGE*									

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: PM

GOLDER

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-45

SHEET 2 OF 4

LOCATION: N 4822923.63; E 614080.70

BORING DATE: September 8 to 10, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: D-50 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		--- CONTINUED FROM PREVIOUS PAGE ---									
10	Power Auger 171 mm O.D., 83 mm I.D., Hollow Stem Auger	FV = 50 kPa, remolded FV = 7 kPa, St = 7.0 (CL-ML) SILTY CLAY to CLAYEY SILT contains organics; grey-black; cohesive, w~PL, very soft to stiff									
11					9	SS	11	ND			
		FV = 48 kPa, remolded FV = 8 kPa, St = 5.9		64.84							
12		(CL) SILTY CLAY, contains shale fragments; grey, (RESIDUAL SOIL); cohesive, w~PL, hard		11.58							
					10	SS	97	ND			
				63.72							
		END OF BOREHOLE Borehole cored from a depth of 12.70 m to 30.30 m For rock coring details refer to Record of Drillhole 21-45		12.70							
13											
14											
15											
16											
17											
18											
19											
20											

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: PM

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-45

SHEET 3 OF 4

LOCATION: N 4822923.63 ;E 614080.70

DRILLING DATE: September 8 to 10, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: D-50 Track Mount

DRILLING CONTRACTOR: Walker Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-45		63.72															
13	Rotary Diamond Drill HQ3 Core	Slightly weathered to fresh, thinly bedded, dark grey to grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds		12.70	1							CO,IR,RO,PC,CL	3	4	20				
												BD,IR,RO	3	2	25				
												CO,IR,SM	2	2	20			Limestone	
												CO,IR,RO,PC,CL	3	4	20				
												CO,UN,SM,IN,CL, 25 mm	2	15	0			Limestone	
												CO,UN,SM,IN,CL, 7 mm	2	15	0				
14					2							CO,PL,RO,PC,CL	1.5	4	16			Limestone	
												BD,UN,SM,CC,CL	2	4	16			Limestone	
												BD,PL,RO,CC,CL	1.5	4	16			Limestone	
												CO,UN,SM,IN,CL, 20 mm	2	15	0			Limestone	
												CO,IR,SM,PC,CL	2	4	16			Limestone	
												BD,IR,RO,IN,CL, 3 mm	3	8	6			Limestone	
												BD,UN,SM,PC,CL	2	4	16			Limestone	
15												BD,PL,SM	1	2	16				
					3							BD,UN,SM,IN,CL, 3 mm	2	8	6				
												BD,UN,SM,PC,CL	2	4	16				
16												BD,PL,SM	1	2	16				
												CO,UN,RO,PC,CL	3	4	20			Limestone	
												BD,PL,SM	1	2	16			Limestone	
					4							CO,IR,RO,PC,CL	3	4	20				
17												CO,IR,RO,IN,CL, 5 mm	3	15	0			Limestone	
												BD,IR,RO,IN,CL, 5 mm	3	15	0				
												BD,IR,RO,IN,CL, 10 mm	3	15	0				
												BD,UN,RO,PC,CL	3	4	20			Limestone	
												CO,IR,RO,IN,CL, 3 mm	3	8	6				
																		Lost Core	
18																			
					5							BD,UN,SM	2	2	20				
												BD,PL,SM,PC,CL	1	4	12				
												BD,PL,SM,IN,CL, 8 mm	1	15	0				
												BD,UN,SM,PC,CL	2	4	16				
19												BD,PL,RO,PC,CL	1.5	4	16				
												BD,PL,SM,PC,CL	1	4	12				
												BD,PL,RO,PC,CL	1.5	4	16				
												BD,UN,SM,PC,CL	2	4	16				
20					6							BD,IR,RO	3	2	25				
												BD,PL,RO	1.5	2	20			Limestone	
												BD,ST,RO	3	2	25				
																		Limestone	
																		Broken Core	
																		Broken Core	
21												BD,UN,SM	2	2	20				
												CO,PL,SM,PC,CL	1	4	12			Limestone	
												CO,PL,SM,PC,CL	1	4	12			Limestone	
					7													Limestone	
																		Broken Core	
																		Limestone	
																		Limestone	
																		Limestone	
22																			
												BD,UN,SM,PC,CL	2	4	16			Limestone	
					8							BD,PL,SM,PC,CL	1	4	12			Limestone	
												BD,PL,SM	1	2	16			Limestone	

CONTINUED NEXT PAGE

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: AB

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-45

SHEET 4 OF 4

LOCATION: N 4822923.63 ;E 614080.70

DRILLING DATE: September 8 to 10, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: D-50 Track Mount

DRILLING CONTRACTOR: Walker Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jconn	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
23	Rotary Diamond Drill HQ3 Core	Slightly weathered to fresh, thinly bedded, dark grey to grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			8							BD,UN,SM,PC,CL	2	4	16			Limestone	
												BD,PL,SM,PC,CL	1	4	12			Limestone	
												BD,PL,RO,PC,CL	1.5	4	16				
												BD,PL,SM,PC,CL	1	4	12				
24																		Axial Dia	
					9							BD,PL,SM,PC,CL	1	4	12				
25																			
		UCS = 14.4 MPa										BD,UN,SM,IN,CL, 2 mm	2	8	6				
					10							BD,UN,SM,PC,CL	2	4	16				
26												BD,PL,SM,PC,CL	1	4	12			Limestone	
												BD,PL,SM,PC,CL	1	4	12				
		UCS = 16.1 MPa																	
27												CO,PL,SM,PC,CL	1	4	12			Broken Core	
																		Limestone	
					11							BD,UN,RO,PC,CL	3	4	20			Limestone	
																		Limestone	
28																		Limestone	
																		Limestone	
												BD,PL,RO,PC,CL	1.5	4	16			Limestone	
												BD,PL,SM,CC,CL	1	4	12			Limestone	
																		Limestone	
					12							BD,UN,SM,PC,CL	2	4	16			Limestone	
29												BD,PL,RO,PC,CL	1.5	4	16			Limestone	
																		Axial	
																		Limestone Dia	
												BD,ST,RO,CC,CL	3	4	20			Broken Core	
																		Limestone	
					13													Limestone	
30																		Limestone	
				46.12															
				30.30															
		END OF DRILLHOLE																	
		NOTES:																	
31		1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.																	
32																			

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: AB

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-46

SHEET 1 OF 4

LOCATION: N 4822922.43; E 614118.21

BORING DATE: August 23 to September 8, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: D-50 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
0		GROUND SURFACE		76.50							
0	Power Auger 171 mm O.D.;83 mm I.D.; Hollow Stem Auger	TOPSOIL (76 mm)		0.00							
		FILL - (SM) SILTY SAND, trace gravel; brown, trace rock fragments; non-cohesive, moist, dense to compact		0.08	1	SS	41	ND			
1					2	SS	26	ND			
2					3	SS	19	ND			0 70 (30)
				74.29							
		(CL) Gravelly sandy SILTY CLAY; grey, contains rock fragments; cohesive, moist-wet, soft to firm		2.21	4	SS	4	ND			30 28 33 9
3					5	SS	5	ND			
				72.77							
		(CL- ML) SILTY CLAY to CLAYEY SILT, contains organics; grey, shell fragments, contains odour; cohesive, moist, soft		3.73	6	SS	3	ND		65.3	
4											
5					7	SS	3	ND			
6					8	SS	3	ND		56 65.5	γ = 15.11 KN/m³
7											
8					9	SS	3	ND		52.8	0 14 78 8
				67.81							
		(SM) SILTY SAND, contains organics; grey, shell and wood fragments; non-cohesive, moist, loose		8.69							
9					10	SS	7	ND			7 78 (15)
10		*CONTINUED NEXT PAGE*									

DEPTH SCALE

1 : 50

WSP GOLDER

LOGGED: AY

CHECKED: PM

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-46

SHEET 2 OF 4

LOCATION: N 4822922.43; E 614118.21

BORING DATE: August 23 to September 8, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: D-50 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		--- CONTINUED FROM PREVIOUS PAGE ---									
10	Power Auger 171 mm O.D., 83 mm I.D., Hollow Stem Auger	(SM) SILTY SAND, contains organics; grey, shell and wood fragments; non-cohesive, moist, loose		64.77							
11					11	SS	4	ND		NP	
12		(CL) SILTY CLAY, trace sand; grey-green, contained shale fragments; cohesive, w~PL, hard to very stiff (Residual Soil to weathered rock)		11.73	12	SS	31				
13					13	SS	28				
14		END OF BOREHOLE Borehole cored from a depth of 13.92 m to 30.36 m For rock coring details refer to Record of Drillhole 21-46		62.58 13.92							
15											
16											
17											
18											
19											
20											

GTA-BHS 005 R:\ONTARIO\SIMCLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

DEPTH SCALE

1 : 50

GOLDER

LOGGED: AY

CHECKED: PM

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-46

SHEET 3 OF 4

LOCATION: N 4822922.43 ;E 614118.21

DRILLING DATE: August 25 to September 8, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: D-50 Track Mount

DRILLING CONTRACTOR: Walker Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-46		62.58															
14	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds		13.92	1							CO,IR,RO,PC,CL CO,PL,RO,PC,CL CO,PL,SM,IN,CL, 9 mm CO,PL,RO,PC,CL CO,PL,SM,CC,CL CO,PL,SM	3 1.5 1 1.5 1 1	4 4 15 4 4 2	20 16 0 16 12 16			Lost Core Limestone Limestone Limestone Limestone	
15					2							BD,PL,SM,PC,CL	1	4	12			Lost Core	
16					3							BD,IR,SM,PC,CL BD,PL,SM,PC,CL CO,PL,SM,PC,CL CO,ST,SM,CC,CL BD,IR,RO,PC,CL	2 1 1 2 3	4 4 4 4 4	16 12 12 16 20			Limestone	
17					4							BD,PL,RO,PC,CL CO,PL,RO,PC,CL	1.5 1.5	4 4	16 16			Limestone Limestone	
18												BD,UN,SM,PC,CL BD,PL,RO,PC,CL	2 1.5	4 4	16 16			Limestone	
19					5							Co,UN,RO,PC,CL BD,UN,RO,PC,CL BD,PL,SM,PC,CL	3 3 1	4 4 4	20 20 12			Limestone Limestone	
20					6							CO,IR,RO,PC,CL	3	4	20			Lost Core Limestone	
21					7							BD,PL,RO,PC,CL BD,PL,SM,PC,CL BD,UN,RO,CC,CL	1.5 1 3	4 4 4	16 12 20			Limestone Limestone	
22					8							BD,ST,RO,PC,CL BD,PL,RO,PC,CL BD,UN,SM,PC,CL CO,UN,SM,PC,CL	3 1.5 2 2	4 4 4 4	20 16 16 16			Limestone Limestone	
23		UCS = 18.8 MPa			9							BD,PL,SM,PC,CL BD,UN,SM,PC,CL	1 2	4 4	12 16			Limestone Limestone	
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: AB

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-46

SHEET 4 OF 4

LOCATION: N 4822922.43 ;E 614118.21

DRILLING DATE: August 25 to September 8, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: D-50 Track Mount

DRILLING CONTRACTOR: Walker Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATH-ERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
24	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds UCS = 12.4 MPa			9														
25					10							BD,PL,SM,PC,CL BD,PL,SM	1 1	4 2	12 16			Axial Dia Limestone Limestone	
26												CO,PL,SM,PC,CL BD,IR,RO,PC,CL BD,PL,RO,PC,CL	1 3 1.5	4 4 4	12 20 16			Axial Dia Limestone	
27					11							BD,UN,SM,IN,CL, 3 mm BD,UN,SM,CC,CL BD,PL,RO,PC,CL CO,PL,RO,PC,CL CO,PL,SM,PC,CL	2 2 1.5 1.5 1	8 4 4 4 4	6 16 16 16 12			Limestone Limestone	
28					12							BD,UN,SM,CC,CL	2	4	16			Limestone Limestone Limestone	
29					13							CO,IR,SM,PC,CL BD,IR,RO,PC,CL BD,UN,SM,PC,CL BD,PL,RO,IN,CL, 5 mm	2 3 2 1.5	4 4 4 15	16 20 16 0			Limestone Limestone Limestone Limestone Limestone	
30				46.14 30.36														Limestone Limestone Limestone	
		END OF DRILLHOLE NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.																	
31																			
32																			
33																			

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: AB

GOLDER

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-47

SHEET 1 OF 4

LOCATION: N 4822896.41; E 614133.24

BORING DATE: December 3 to 7, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp W Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		GROUND SURFACE		77.80							
0	Hydrovac	ASPHATL (150 mm)		0.00							
		FILL - (GP) GRAVEL with asphalt layers		0.15							
1				76.28	1	GS					
		FILL - (GM) SILTY GRAVEL to (SM) SILTY SAND with sand; brown; non-cohesive, moist		1.52	2	GS					
2											
3				74.75							
	Power Auger 171 mm O.D.,83 mm I.D., Hollow Stem Auger	(ML) Gravelly SANDY SILT, organics, wood pieces; brown to black; non-cohesive, moist, compact		3.05	3	SS	24			52.7	24 34 (42)
				74.14							
		(OL) ORGANIC SILT, wood pieces; brown to black; w~PL, stiff		3.66	4	SS	21				
4											
					5	SS	10			56 69.1	γ = 15.5 KN/m³
5											
					6	SS	10				
6											
					7	SS	13				5 35 (60)
		(CL) SILTY CLAY, trace gravel, some sand; brown; stiff		71.09 6.71							
7					8	SS	20				5 12 44 39
				70.48							
		Inferred grey SHALE BEDROCK (Georgian Bay Formation), w~PL		7.32	9	SS	1/ 0.15				
		END OF BOREHOLE		7.49							
8		Borehole cored from a depth of 7.49 m to 34.05 m									
		For rock coring details refer to Record of Drillhole 21-47									
9											
10											

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: AM

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-47

SHEET 2 OF 4

LOCATION: N 4822896.41 ;E 614133.24

DRILLING DATE: December 3 to 7, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jconn	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-47		70.31															
8	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, dark grey to grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds		7.49	1							CO,CU,SM,IN,CL, 30 mm	2	15	0			Lost core	
																		BC	
												CO,UN,RO	3	2	25			Limestone	
												CO,UN,RO,CC,CL, 10 mm	3	4	20				
												CO,UN,SM,PC,CL	2	4	16				
9					2							CO,UN,RO	3	2	25			Limestone	
												CO,UN,SM,SA	2	2	20			Limestone	
10												CO,UN,RO,IN,CL, 10 mm	3	15	0				
					3							BD,UN,RO,PC,CL	3	4	20				
11												CO,UN,RO,PC,CL	3	4	20				
												BD,PL,RO	1.5	2	20			BC	
												BD,UN,RO	3	2	25				
												BD,UN,RO,SA	3	2	22				
12					4							BD,UN,RO,PC,GO	3	3	22				
13												BD,PL,RO,PC,CL	1.5	4	16			Limestone	
					5							CO,IR,RO	3	2	25			Limestone	
14																		BC	
												BD,PL,SM,PC,CL	1	4	12				
												CO,UN,RO,SA, CL	3	2	22				
15												CO,PL,RO	1.5	2	20			Limestone	
					6							BD,ST,RO	3	2	25			Limestone	
												BD,UN,RO	3	2	25				
												CO,UN,RO	3	2	25			Limestone	
												CO,PL,RO,PC,CL	1.5	4	16			Limestone	
16												BD,PL,RO,PC,CL	1.5	4	16			Limestone	
												CO,IR,RO	3	2	25				
												CO,UN,RO	3	2	25			Limestone	
					7													Limestone	
17												CO,PL,RO	1.5	2	20			Limestone	
																		Limestone	
					8													Limestone	

CONTINUED NEXT PAGE

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: AM

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-47

SHEET 3 OF 4

LOCATION: N 4822896.41 ;E 614133.24

DRILLING DATE: December 3 to 7, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
18	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, dark grey to grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds			8							BD,PL,SM	1	2	16			Limestone	
												CO,UN,VR,PC,CL	3	4	20			Limestone	
19																		Limestone	
					9													Limestone	
20																			
21					10													Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
22												BD,UN,RO	3	2	25			Limestone	
												BD,UN,VR	3	2	25				
												BD,UN,RO,PC,GO	3	3	22			Limestone	
												BD,UN,RO	3	2	25				
												BD,PL,RO	1.5	2	20			Limestone	
					11							BD,UN,RO,SA	3	2	22			Limestone	
23																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
					12													Limestone	
24												CO,UN,RO	3	2	25			Limestone	
												CO,UN,RO	3	2	25			Limestone	
25																			
					13														
26																			
					14														
27																		Limestone	
																		Limestone	
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: AM

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-47

SHEET 4 OF 4

LOCATION: N 4822896.41 ;E 614133.24

DRILLING DATE: December 3 to 7, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	ELEV. DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																
28	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, dark grey to grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds		14							BD,UN,RO,SA	3	2	22			Limestone	
29				15							BD,PL,SM,SA	1	2	16			Limestone	
											CO,PL,RO	1.5	2	20			Limestone	
											CO,UN,RO	3	2	25			Limestone	
											BD,CU,SM,SO	2	2	20			Limestone	
30																	Limestone	
																	Limestone	
																	Limestone	
				16							BD,UN,SM	2	2	20			Limestone	
																	Limestone	
31																	Limestone	
																	Lost core	
32				17							BD,PL,SM,SA	1	2	16			Limestone	
																	Limestone	
																	Limestone	
																	Limestone	
33																	Limestone	
				18													Limestone	
											CO,UN,RO,PC,CL	3	4	20			Limestone	
34			43.75														Limestone	
		END OF DRILLHOLE	34.05															
		NOTES:																
35		1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.																
36																		
37																		

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: AM

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-48

SHEET 1 OF 4

LOCATION: N 4822985.36; E 614142.80

BORING DATE: October 5 to 7, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp ○ W WI) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%)
		GROUND SURFACE		76.42							GR SA SI CL
0	Power Auger 171 mm O.D.;83 mm I.D.; Hollow Stem Auger	TOPSOIL (300 mm)		0.00	1	SS					
		FILL - (ML) SILT; trace sand and gravel; brown; non-cohesive, dry, compact		76.11 0.31	2	SS	15				
1		FILL - (SM) SILTY SAND; brown to grey; non-cohesive, moist to wet, compact to very loose		75.66 0.76	3	SS	13				
					4	SS	1				
2										94	
		(OL) ORGANIC SILT, trace rootlets; grey to black, shell fragments, pieces of wood; moist, soft to very soft		74.21 2.21	5	SS	1				
3											
					6	SS	4			109.2	
4					7	SS	3			65	
					8	SS	4			50.8	
5											
					9	SS	2				
6					10	SS	4				
				69.64							
		(CL-ML) SILTY CLAY to CLAYEY SILT, trace sand; grey, pieces of wood and shell fragments; cohesive, moist, soft to very soft		6.78	11	SS	3			52.3	
7											
					12	SS	2			57.1	0 12 80 8
8											
					13	SS	4			67.1	
9		- Sand layer between 9.14 m to 9.75 m									
					14	SS	2				
				66.60							
10				9.82	15	SS	1				
		CONTINUED NEXT PAGE									

DEPTH SCALE

1 : 50

WSP GOLDER

LOGGED: AY

CHECKED: SS

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-48

SHEET 2 OF 4

LOCATION: N 4822985.36; E 614142.80

BORING DATE: October 5 to 7, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80)	SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3})	WATER CONTENT PERCENT (Wp W Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		--- CONTINUED FROM PREVIOUS PAGE ---											
10	Power Auger 171 mm O.D.,83 mm I.D., Hollow Stem Auger	(ML) CLAYEY SILT to SANDY SILT; grey, pieces of wood; cohesive to non-cohesive, moist, very soft to soft			15	SS	1					58.2	
11					16	SS	4						
				65.07									
		(SM) SILTY SAND, trace gravel to gravelly; grey, shell fragments; non-cohesive, wet, loose to dense		11.35									
12					17	SS	5						
					18	SS	49						
				63.62									
13	Rotary Diamond Drill HQ3 Core	(SM) SILTY SAND, shale pieces; grey; non-cohesive - Cobble/boulder layer between 12.80 m to 13.54 m		12.80									
14				61.92									
		END OF BOREHOLE Borehole cored from a depth of 14.50 m to 32.29 m For rock coring details refer to Record of Drillhole 21-48		14.50									
15													
16													
17													
18													
19													
20													

DEPTH SCALE

1 : 50

GOLDER

LOGGED: AY

CHECKED: SS

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-48

SHEET 3 OF 4

LOCATION: N 4822985.36 ;E 614142.80

DRILLING DATE: October 5 to 7, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-48	61.92															
15	Rotary Diamond Drill HQ3 Core	Highly weathered to fresh, thinly bedded, grey, fine grained, fine porous, very weak to weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds	14.50	1													Broken Core	
				2							BD,PL,SM,CC,CL,Go	1	4	12			Lost Core	
16				3							CO,IR,RO,PC,Go	3	3	22			Limestone	
											BD,PL,RO	1.5	2	20				
											CO,PL,SM	1	2	16			Limestone	
17																	Limestone	
				4							BD,PL,SM,SA	1	2	16				
18																		
19				5							CO,UN,SM	2	2	20			Limestone	
																	Limestone	
20																	Limestone	
																	Limestone	
				6							BD,PL,SM,IN,CL, 10mm FLT,UN,RO	1 3	15 2	0 25			Limestone	
21											BD,PL,SM,PC,CL	1	4	12				
																	Limestone	
22				7							CO,PL,SM,PC,CL	1	4	12			Limestone	
											BD,PL,SM,PC,CL	1	4	12				
23																		
				8														
24																		
		CONTINUED NEXT PAGE																

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: EN

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-48

SHEET 4 OF 4

LOCATION: N 4822985.36 ;E 614142.80

DRILLING DATE: October 5 to 7, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
25	Rotary Diamond Drill HQ3 Core	Highly weathered to fresh, thinly bedded, grey, fine grained, fine porous, very weak to weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds UCS = 19.8 MPa			8														
					9							BD,PL,SM,PC,CL	1	4	12				
26																			
												CO,PL,SM,SA	1	2	16			Limestone	
27					10							CO,UN,SM,PC,Go	2	3	20			Limestone	
																		Limestone	
																		Limestone	
28												CO,PL,SM,PC,CL	1	4	12			Limestone	
					11							CO,PL,RO	1.5	2	20				
												CO,PL,SM,SA	1	2	16			Limestone	
29																		Limestone	
					12													Limestone	
30																		Limestone	
																		Limestone	
					13														
31																		Limestone	
												BD,UN,RO,PC,CL	3	4	20				
32				44.13														Limestone	
		END OF DRILLHOLE		32.29															
		NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.																	
33																			
34																			

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: EN

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-49

SHEET 1 OF 4

LOCATION: N 4823019.86; E 614173.83

BORING DATE: September 30 to October 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%)
		GROUND SURFACE		76.38							GR SA SI CL
0	Power Auger 171 mm O.D.;83 mm I.D.; Hollow Stem Auger	TOPSOIL (100 mm)		0.00							
		FILL - (CL) Sandy SILTY CLAY, trace organics with rootlets; brown; moist, firm		0.10	1	SS	8	ND			
1					2A	SS	6	ND			
		FILL - (SM-ML) SILTY SAND to (ML) SANDY SILT; grey; non-cohesive, moist to wet;loose to compact - With rootlets from 1.52 m to 2.13 m		75.16 1.22	2B			ND			
2					3	SS	19	ND			
					4	SS	10	ND			
3		FILL - (ML) SILT, some sand, trace gravel; wood and plastic fragments; cohesive, moist, firm		73.41 2.97	5	SS	4	ND			
4		- Tar-like substance from 3.96 m to 6.71 m			6	SS	2	ND			
		FILL - (OL) Organic SILT, trace sand, trace gravel, trace organics; grey to black; cohesive, soft to very soft		71.50 4.88							
5											
6					7	SS	3	ND		114.4	
7											
8					8	SS	1	ND		70.2	
		(ML) SILT, trace sand; grey to black; non-cohesive, moist, very loose		67.69 8.69							
9					9	SS	1	ND		52.8	
10		*CONTINUED NEXT PAGE*									

DEPTH SCALE

1 : 50

LOGGED: EN

CHECKED: SS

GTA-BHS 005 R:\ONTARIO\SIMCLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-49

SHEET 2 OF 4

LOCATION: N 4823019.86; E 614173.83

BORING DATE: September 30 to October 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		--- CONTINUED FROM PREVIOUS PAGE ---									
10	Power Auger 171 mm O.D.;83 mm I.D.; Hollow Stem Auger			66.17							
		(GP) Gravelly SAND, some silt; grey; non-cohesive, wet, loose to compact		10.21							
		- Wood Fragments for 10.67 m to 11.28 m			10	SS	8	ND			
11											
12					11	SS	14				34 53 (13)
13				62.97							
		Inferred grey SHALE BEDROCK (Georgian Bay Formation)		13.41	12	SS	100/0.10				
		END OF BOREHOLE		13.51							
14		Borehole cored from a depth of 13.51 m to 31.97 m									
		For rock coring details refer to Record of Drillhole 21-49									
15											
16											
17											
18											
19											
20											

DEPTH SCALE
1 : 50

LOGGED: EN
CHECKED: SS

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-49

SHEET 3 OF 4

LOCATION: N 4823019.86 ;E 614173.83

DRILLING DATE: September 30 to October 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-49	62.87															
14	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds	13.51	1						90	BD,CU,SM,SA	2	2	20			Lost Core	
										90	CO,UN,SM,SA	2	2	20			Limestone	
										90	CO,UN,RO	3	2	25				
										90	BD,PL,SM,SA	1	2	16				
				2						90	CO,UN,RO,SA	3	2	22			Limestone	
										90	CO,PL,SM,CC,Go	1	3	12				
15										90	CO,PL,SM	1	2	16				
										90	BD,PL,RO,SA	1.5	2	20				
										90	CO,UN,SM,PC,CL	2	4	16				
16				3						90	CO,UN,SM,PC,CL	2	4	16			Limestone	
										90	BD,PL,SM,SA	1	2	16				
										90	BD,PL,SM,SA	1	2	16			Limestone	
										90	BD,CU,SM,SA	2	2	20				
										90	BD,PL,SM,SA	1	2	16				
17																		
				4						90	BD,PL,SM,PC,CL	1	4	12				
18																		
19																	Limestone	
				5						90	CO,PL,RO,SA	1.5	2	20			Limestone	
																	Limestone	
20																	Limestone	
										90	CO,PL,SM	1	2	16			Limestone	
										90	CO,UN,SM,PC,CL	2	4	16				
21				6													Limestone	
										90	CO,PL,RO,CC,CL	1.5	4	16			Limestone	
22																		
				7						90	BD,PL,SM,SA	1	2	16			Limestone	
23																		
				8													Limestone	
		CONTINUED NEXT PAGE																

DEPTH SCALE
1 : 50

LOGGED: EN
CHECKED: SK

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-49

SHEET 4 OF 4

LOCATION: N 4823019.86 ;E 614173.83

DRILLING DATE: September 30 to October 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
24	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds UCS = 20.6 MPa			8													Axial Dia	
25																		Limestone Limestone	
26					9							BD,PL,SM,PC,CL BD,UN,RO,PC,CL	1 3	4 4	12 20			Axial Dia Limestone Limestone Limestone Limestone Limestone	
27					10													Limestone Limestone Limestone Limestone Limestone	
28					11													Limestone Lost Core	
29																		Limestone	
30					12													Limestone Limestone	
31					13													Limestone Limestone Limestone Limestone Limestone Limestone Limestone Limestone	
32		END OF DRILLHOLE NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.		44.41 31.97														Limestone	
33																			

DEPTH SCALE
1 : 50

LOGGED: EN
CHECKED: SK

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-50

SHEET 1 OF 4

LOCATION: N 4822981.92; E 614177.97

BORING DATE: September 27 and 28, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp W Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%)
		GROUND SURFACE		78.11							GR SA SI CL
0	Hydrovac	FILL - (SM) SILTY SAND, some gravel to gravelly; brown; non-cohesive, dry to moist, loose to compact		0.00							Sand
1					1	GS					
2					2	SS	8				Bentonite
3					3	SS	17				
				74.39							
4		FILL - (CL) SILTY CLAY, some sand, trace gravel, trace organics; oxidation stains; cohesive, moist, firm		3.72	4	SS	6				
5					5	SS	6				
				72.86							
6	Power Auger 171 mm O.D.,83 mm I.D.; Hollow Stem Auger	(OL) ORGANIC SILT, trace sand, trace gravel; grey to black, trace shell fragments; non-cohesive, moist, loose		5.25	6	SS	5		79.7		2 13 72 13
7					7	SS	5				Grout
8		FV = 28.8 kPa, remolded FV = 19.2 kPa FV = 64.9 kPa, remolded FV = 19.2 kPa			8	SS	5				
9		- Pieces of wood turned to peat from 9.19 m to 9.32 m and 10.8 m to 10.97 m			9	SS	8				
10					10	SS	7				
		CONTINUED NEXT PAGE									

DEPTH SCALE

1 : 50

GOLDER

LOGGED: AY

CHECKED: SS

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-50

SHEET 2 OF 4

LOCATION: N 4822981.92; E 614177.97

BORING DATE: September 27 and 28, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp W WI)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		--- CONTINUED FROM PREVIOUS PAGE ---									
10	Power Auger 171 mm O.D., 83 mm I.D., Hollow Stem Auger	(OL) ORGANIC SILT, trace sand, trace gravel; grey to black, trace shell fragments; non-cohesive, moist, loose			10	SS	7				
11					11	SS	7		55 58.2		
12					12	SS	6		62		1 16 66 17
				65.82	13A						
		(CL) SILTY CLAY, trace sand; grey, wood pieces; cohesive, wet, firm		12.29	13B	SS	8			ϒ = 17.78 KN/m³	
13		FV = 79.3 kPa, remolded FV = 24.0									
		FV = 96.2 kPa		64.85 13.26							
		(SP) SAND, some silt, trace gravel; non-cohesive, wet, loose to compact									
		- Wood pieces from 13.71 m to 13.79 m									
14					14	SS	9				5 84 (11)
					15A						
				63.33		SS	31				66 25 (9)
15		(GP) GRAVEL, some sand, trace fines; grey; non-cohesive, moist, dense		14.78	15B						Grout
				62.95							
		(CL) SILTY CLAY contains shale fragments; grey (RESIDUAL SOIL); cohesive, w~PL, hard		15.16							
16					16	SS	64				
				61.68							
		END OF BOREHOLE		16.43							
17		Borehole cored from a depth of 16.43 m to 32.4 m									
		For rock coring details refer to Record of Drillhole 21-50									
18											
19											
20											

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: SS

GOLDER

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-50

SHEET 3 OF 4

LOCATION: N 4822981.92 ;E 614177.97

DRILLING DATE: September 27 and 28, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-50	61.68															
17	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds	16.43	1							CO,UN,SM,PC,CL CO,UN,RO BD,UN,SM,SA	2 3 2	4 2 2	16 25 20			Limestone	
18				2							BD,UN,SM,SA BD,UN,RO,PC,CL BD,UN,SM,PC,CL CO,PL,SM,PC,CL CO,PL,SM,CC,CL BD,UN,RO,IN,CL,3 mm BD,ST,SM,PC,CL BD,UN,RO,PC,CL BD,UN,SM,SA	2 3 2 1 1 3 2 3 2	2 4 1 4 4 8 4 4 2	20 20 16 12 12 6 16 20 20			Limestone	
19				3							BD,UN,SM,PC,CL BD,UN,RO,PC,CL BD,PL,SM,IN,CL,10 mm	2 3 1	4 4 15	16 20 0			Grout Limestone	
20											CO,UN,RO,PC,CL CO,UN,RO BD,PL,SM,SA	3 3 1	4 2 2	20 25 16				
21				4							CO,IR,RO,SA BD,UN,RO CO,UN,RO,PC,GO CO,UN,RO,PC,CL BD,UN,SM,PC,CL BD,UN,SM,SA BD,PL,SM,PC,CL	3 3 3 2 2 1	2 2 3 4 2 4	22 25 22 20 16 12			Limestone Limestone Limestone	
22																	Limestone	
23				5							BD,UN,RO,PC,GO BD,PL,SM,PC,GO CO,PL,RO,CC,CL	3 1 1.5	3 3 4	33 16 16			Limestone Limestone Limestone	
24				6							CO,PL,SM BD,PL,SM,PC,CL BD,PL,SM BD,PL,SM	1 1 1 1	2 4 2 2	16 12 16 16			Limestone Limestone	
25		UCS = 18.5 MPa		7							CO,UN,SM,SA BD,PL,SM,PC,CL	2 1	2 4	20 12			Bentonite Axial Dia Limestone	
26		*CONTINUED NEXT PAGE*		8														

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: SK

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-50

SHEET 4 OF 4

LOCATION: N 4822981.92 ;E 614177.97

DRILLING DATE: September 27 and 28, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
27	Rotary Diamond Drill HQ3 Core	UCS = 17.9 MPa Moderately weathered to fresh, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			8														Bentonite
28												CO,UN,RO,SA CO,PL,SM,PC,CL	3 1	2 4	22 12				Axial Dia Sand Limestone Limestone Limestone Limestone
29					9							BD,PL,RO,SA BD,PL,RO,SA	1.5 1.5	2 2	20 20				Limestone Limestone Limestone Screen
30					10														Limestone Limestone Limestone Limestone Limestone
31					11														Limestone Limestone Limestone Sand
32				45.70 32.41															Limestone
33		END OF DRILLHOLE NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling. 2. Groundwater level measurements in the monitoring well: (screened from 27.0 m to 30.0 m) Date Depth (m) Elev. (m) XXX XXX XXX																	
34																			
35																			
36																			

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: SK

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-51

SHEET 1 OF 3

LOCATION: N 4823014.85; E 614213.27

BORING DATE: October 5 to 7, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
0		GROUND SURFACE		77.66							
		ASPHALT (75 mm)		0.00							
		CONCRETE (230 mm)		0.07 / 77.36							
		FILL - (SP) SAND, some silt, trace to some sand; brown; non-cohesive, moist, very loose		0.30	1	SS	10	ND			
1					2	SS	2	ND			
2		- Hydrocarbon odour below 2.29 m, trace organics			3	SS	18		220 189		
				74.69							
3		(SM) SILTY SAND, trace gravel, trace to some organics; grey; non-cohesive, very loose to loose		2.97	4	SS	1	ND			
					5	SS	2	ND			
4					6	SS	8	ND			
5	Power Auger 171 mm O.D.,83 mm I.D., Hollow Stem Auger				7	SS	WH	ND			52.7
6					8	SS	4	ND			
				70.88							
7		(OL) ORGANIC SILT, trace to some sand, wood pieces, shale fragments; grey; cohesive, w>PL to w~PL, soft to firm		6.78	9	SS	6	ND			70.4
8					10	SS	7	ND			
					11	SS	4	ND			63.5
9					12	SS	4	ND			
10					13	SS	4				
		CONTINUED NEXT PAGE									

DEPTH SCALE

1 : 50

GOLDER

LOGGED: EN

CHECKED: SS

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-51

SHEET 2 OF 3

LOCATION: N 4823014.85; E 614213.27

BORING DATE: October 5 to 7, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		--- CONTINUED FROM PREVIOUS PAGE ---									
10	Power Auger 171 mm O.D.;83 mm I.D.; Hollow Stem Auger	(OL) ORGANIC SILT, trace to some sand, wood pieces, shale fragments; grey; cohesive, w>PL to w~PL, soft to firm			13	SS	4	ND		93.6	
11					14	SS	6	ND		96.4	
12					15	SS	3			55.9	
		- Sandy organic silt 12.19 m - 12.80 m			16	SS	4				
13					17A	SS	6				
				64.25							
		(SP-GP) SAND and GRAVEL, some silt, some rock fragments; gey; moist to wet, loose to dense		13.41	17B						
14					18	SS	32				
					19	SS	18				
15					20	SS	18				
16					21	SS	102/ 0.10				
				61.56							
		(CL) SILTY CLAY, contains shale fragments; grey (RESIDUAL SOIL); cohesive, w~PL		16.10							
17				60.46							
		END OF BOREHOLE		17.20							
		Borehole cored from a depth of 17.20 m to 20.87 m									
		For rock coring details refer to Record of Drillhole 21-51									
18											
19											
20											

DEPTH SCALE

1 : 50

GOLDER

LOGGED: EN

CHECKED: SS

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-51

LOCATION: N 4823014.85 ;E 614213.27

INCLINATION: -90° AZIMUTH: ---

DRILLING DATE: October 5 to 7, 2021

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

DATUM: UTM NAD 83 (ZONE 17)

NOTE: For abbreviations, symbols and descriptions refer to **LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY**

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DIP w.r.t. CORE AXIS	DISCONTINUITY DATA TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-51		60.46															
	Rotary Diamond Drill HQ3 Core	Highly weathered to slightly weathered, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds		17.20	1							BD,PL,SM,IN,CL, 2 mm	1	8	6				CLAY
18												CO,PL,SM,PC,CL	1	4	12				CLAY Limestone
19					2							BD,PL,SM,SA	1	2	16				
												BD,PL,SM,PC,CL	1	4	12				
20					3							BD,UN,SM,PC,CL	2	4	16				
												BD,PL,SM,SA	1	2	16				
												BD,UN,SM,PC,CL	2	4	16				
												BD,UN,SM,SA	2	2	20				BC
				56.79								BD,UN,SM,SA	2	2	20				
21		END OF DRILLHOLE		20.87															
22																			
23																			
24																			
25																			
26																			
27																			

NOTES:

1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.

DRAFT

DEPTH SCALE

1 : 50

WSP GOLDER

LOGGED: EN

CHECKED: SK

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-52

SHEET 1 OF 5

LOCATION: N 4823071.60; E 614272.36

BORING DATE: October 19 to 21, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		GROUND SURFACE		77.79							
0	Hydrovac	ASPHALT (300 mm)		0.00 / 77.49							
		FILL - (SP) SAND, trace gravel; brown; non-cohesive, moist		0.30	1	GS					
1											
					2	GS		ND			
2											
					3	GS		ND			
				75.19							
		(SM) SILTY GRAVEL, some sand; non-cohesive, moist		2.60	4	GS		ND			
3				74.74							
		(CL) ORGANIC SILT, some sand to sandy, trace gravel; grey, wood pieces; cohesive, w~PL, firm		3.05	5	SS	7	ND			
					6	SS	6	ND			
4											
					7	SS	5	ND		50.7	4 18 64 14
5				72.53							
		(CL) Sandy SILTY CLAY, some gravel; brown (TILL); w<PL, stiff to hard		5.26	8	SS	24	ND			
6	Power Auger 171 mm O.D., 83 mm I.D., Hollow Stem Auger										
					9	SS	36	ND			7 23 47 23
7				70.63							
		(CL) SILTY CLAY, some sand, contains shale fragments, some gravel, some sand (RESIDUAL SOIL); grey; cohesive, w<PL, hard		7.16	10	SS	32	ND			
					11	SS	50/0.10				
8											
					12	SS	50/0.05				
9				68.55							
		(CL) SILTY CLAY, some sand, contains shale fragments; grey, (RESIDUAL SOIL); conhesive, W~PL - Cobble/boulder between 9.24 m and 9.59 m		9.24 / 68.20 / 9.59							
10		*CONTINUED NEXT PAGE*									

DEPTH SCALE

1 : 50

WSP GOLDER

LOGGED: AY

CHECKED: MTI

GTA-BHS 005 R:\ONTARIO\SIMCLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-52

SHEET 2 OF 5

LOCATION: N 4823071.60; E 614272.36

BORING DATE: October 19 to 21, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp — W — Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
10		*--- CONTINUED FROM PREVIOUS PAGE ---*									
	Power Auger	(CL) SILTY CLAY, shale fragments (RESIDUAL SOIL)		67.27							
		END OF BOREHOLE Borehole cored from a depth of 10.52 m to 33.99 m For rock coring details refer to Record of Drillhole 21-52		10.52							
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: MTI

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-52

SHEET 3 OF 5

LOCATION: N 4823071.60 ;E 614272.36

DRILLING DATE: October 19 to 21, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-52		67.27															
	Rotary Diamond Drill HQ3 Core	Slightly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds		10.52	1		100	100	100	0	90	CO,UN,SM,SA	2	2	20	W1	2		Limestone
											90	CO,PL,SM,SA	1	2	16				
											90	BD,PL,SM,PC,CL	1	4	12				
11											90	BD,PL,SM	1	2	16				
											90	BD,UN,RO,PC,CL	3	4	20				
					2		100	100	100	0	90	BD,UN,SM,SA	2	2	20				
											90	BD,UN,SM,SA	2	2	20				
12																			
											90	BD,UN,SM,SA	2	2	20				
											90	BD,PL,SM,PC,CL	1	4	12				
13					3		100	100	100	0	90	BD,UN,SM,SA	2	2	20				
											90	BD,UN,SM,SA	2	2	20				
											90	BD,PL,SM	1	2	16				
											90	BD,UN,SM,SA	2	2	20				
14											90	BD,PL,SM,SA	1	2	16				Limestone
											90	CO,PL,SM,PC,CL	1	4	12				
											90	BD,PL,SM,PC,CL	1	4	12				
											90	CO,PL,SM,SA	1	2	16				Limestone
					4		100	100	100	0	90	BD,PL,SM,SA	1	2	16				
											90	BD,PL,SM,PC,CL	1	4	12				
											90	BD,PL,SM,SA	1	2	16				Limestone
15											90	CO,PL,SM	1	2	16				
											90	BD,PL,SM,PC,CL	1	4	12				
16											90	BD,PL,SM,SA	1	2	16				
											90	BD,PL,SM,SA	1	2	16				
					5		100	100	100	0									
17																			Limestone
											90	CO,PL,SM,SA	1	2	16				Limestone
											90	CO,PL,SM,SA	1	2	16				
					6		100	100	100	0	90	BD,PL,SM,SA	1	2	16				
18																			
											90	BD,PL,SM,PC,CL	1	4	12				
19					7		100	100	100	0									
20																			
					8		100	100	100	0									
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: SK

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-52

SHEET 4 OF 5

LOCATION: N 4823071.60 ;E 614272.36

DRILLING DATE: October 19 to 21, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
21	Rotary Diamond Drill HQ3 Core	Slightly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			8						0-30 30-60 60-90	CO,PL,SM,SA BD,UN,SM,SA BD,UN,SM,SA CO,PL,SM,SA CO,PL,SM,PC,CL	1 2 2 1 1	2 2 2 2 4	16 20 20 16 12	W1 W2 W3 W4 W5 W6	2 4 6	Limestone Limestone Limestone Limestone	
22					9							BD,UN,SM,PC,CL CO,UN,SM,PC,CL BD,UN,SM,SA BD,PL,SM,SA BD,UN,SM,PC,CL CO,UN,SM,SA	2 2 2 1 2 2	4 4 2 2 4 2	16 16 20 16 16 20			Limestone Limestone Limestone	
23																		Limestone	
24					10														
25		UCS = 22.9 MPa																	
26					11													Axial Dia	
27					12							BD,PL,SM,SA BD,PL,SM,PC,CL CO,PL,RO,PC,CL	1 1 1.5	2 4 4	16 12 16			Limestone Limestone Limestone Limestone Limestone	
28																			
29					13													Limestone Limestone	
30					14													Limestone Limestone Limestone	
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: SK

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-52

SHEET 5 OF 5

LOCATION: N 4823071.60 ;E 614272.36

DRILLING DATE: October 19 to 21, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	DISCONTINUITY DATA: Jr	DISCONTINUITY DATA: Ja	DISCONTINUITY DATA: Jcon	WEATH-ERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
31	Rotary Diamond Drill HQ3 Core	Slightly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			14		80 60 40 20	80 60 40 20	80 60 40 20	5 10 15 20	0 30 60 90					W1 W2 W3 W4 W5 W6	2 4 6		Limestone
32					15														Limestone
33					16							BD,UN,SM,PC,CL	2	4	16				Limestone Limestone Limestone
34				43.80															Limestone
		END OF DRILLHOLE		33.99															
35		NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.																	
36																			
37																			
38																			
39																			
40																			

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: SK

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-53

SHEET 1 OF 5

LOCATION: N 4823180.36; E 614340.60

BORING DATE: October 21 to November 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		GROUND SURFACE		80.02							
0	Hydrovac	CONCRETE (250 mm)		0.00 / 79.77							
		FILL - (CL) SILTY CLAY, trace sand; brown; moist		0.25 / 79.03	1	GS		ND			
1		FILL- (SM) SILTY SAND; brown; moist		0.99 / 76.97	2	GS		ND			
2					3	GS		ND			
					4	GS					
3	Power Auger 171 mm O.D.,83 mm I.D., Hollow Stem Auger	(CL-ML) SILTY CLAY - CLAYEY SILT to (CL) SILTY CLAY, trace gravel, trace sand to sandy; grey to greyish brown (TILL); cohesive, w~PL		3.05	5	SS	11	ND			
4					6	SS	14	ND			0 4 (96)
5					7	SS	14				
					8	SS	10	ND			8 38 (54)
6					9	SS	12				
7					10	SS	10				
					11	SS	13				
8					12	SS	20				
9					13	SS	27				
10					14	SS	35				10 35 21 34
		CONTINUED NEXT PAGE									

DEPTH SCALE

1 : 50

WSP GOLDER

LOGGED: DP

CHECKED: AM

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-53

SHEET 2 OF 5

LOCATION: N 4823180.36; E 614340.60

BORING DATE: October 21 to November 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%)
		--- CONTINUED FROM PREVIOUS PAGE ---									GR SA SI CL
10	Power Auger 171 mm O.D.;83 mm I.D.; Hollow Stem Auger	(CL-ML) SILTY CLAY - CLAYEY SILT to (CL) SILTY CLAY, trace gravel, trace sand to sandy; grey to greyish brown (TILL); cohesive, w~PL			14	SS	35				10 35 21 34
11					15	SS	38			γ = 21.38 KN/m³	
				68.59							
12		Inferred grey SHALE BEDROCK (Georgian Bay Formation)		11.43	16	SS	134	ND			
					17	SS	100/ 0.07	ND			
13					18	SS	100/ 0.15				
				66.15	19	SS	100/ 0.15				
14		END OF BOREHOLE Borehole cored from a depth of 13.87 m to 36.19 m For rock coring details refer to Record of Drillhole 21-53		13.87							
15											
16											
17											
18											
19											
20											

DEPTH SCALE

1 : 50

LOGGED: DP

CHECKED: AM

GTA-BHS 005 R:\ONTARIO\SIMCLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-53

SHEET 3 OF 5

LOCATION: N 4823180.36 ;E 614340.60

DRILLING DATE: October 21 to November 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-53	66.15															
14	Rotary Diamond Drill HQ3 Core	'Slightly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds	13.87	1							BD,UN,SM,PC,CL	2	4	16			BC	
																	Limestone	
											BD,PL,SM,PC,CL	1	4	12			Limestone	
																	Limestone	
15											CO,UN,RO,PC,CL	3	4	20			Limestone	
				2													Limestone	
																	Limestone	
16																	Limestone	
																	Limestone	
																	Limestone	
																	Limestone	
											CO,UN,SM,PC,CL	2	4	16			BC	
17				3													Limestone	
																	Limestone	
18											BD,PL,SM,IN,CL, 1 mm	1	8	6			Limestone	
				4													Limestone	
19																	Limestone	
																	Limestone	
20				5													Limestone	
																	Limestone	
21																	Limestone	
				6													Limestone	
22																	Limestone	
																	Limestone	
23		UCS = 20 MPa		7													Limestone	
																	Limestone	
																	Limestone	
		CONTINUED NEXT PAGE															Limestone	

DEPTH SCALE
1 : 50

LOGGED: DP
CHECKED: MTI

GOLDER

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-53

SHEET 4 OF 5

LOCATION: N 4823180.36 ;E 614340.60

DRILLING DATE: October 21 to November 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATH-ERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
24	Rotary Diamond Drill HQ3 Core	'Slightly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			7													Limestone Limestone	
25					8													Limestone Limestone Limestone Limestone Limestone Limestone	
26																			
27					9														
28																		Limestone Limestone Limestone	
29					10													Limestone Limestone Limestone	
30					11													Limestone Limestone Limestone Limestone Limestone	
31					12													Axial Limestone Dia Limestone	
32																		Limestone Limestone	
33					13													Limestone Limestone Limestone	
		CONTINUED NEXT PAGE			14														

DEPTH SCALE
1 : 50

LOGGED: DP
CHECKED: MTI

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-53

SHEET 5 OF 5

LOCATION: N 4823180.36 ;E 614340.60

DRILLING DATE: October 21 to November 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
34	Rotary Diamond Drill HQ3 Core	'Slightly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			14														Limestone
35																			Limestone Limestone Limestone
					15														Limestone Limestone Limestone Limestone Limestone
36				43.83															
		END OF DRILLHOLE NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.		36.19															
37																			
38																			
39																			
40																			
41																			
42																			
43																			

DEPTH SCALE
1 : 50

LOGGED: DP
CHECKED: MTI

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-54

SHEET 1 OF 5

LOCATION: N 4823273.84; E 614411.26

BORING DATE: October 8 to 14, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp W Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%)
		GROUND SURFACE		79.06							GR SA SI CL
0	Hydrovac	ASPHALT (125 mm)		0.00							
		CONCRETE (125 mm)		0.13							
		FILL - (SP) SAND, trace silt, trace gravel; brown; non-cohesive, moist		0.25	1	GS					
1					2	GS					
				77.54							
		(CL-ML) Sandy CLAYEY SILT; brown to grey; cohesive, w<PL to w~PL, stiff		1.52	3	GS					
2											
3					4	GS	14				
					5	SS	13				
4				74.57							
		(CL) Sandy SILTY CLAY to (CL) Gravelly sandy SILTY CLAY; grey (TILL); cohesive, w~PL to w<PL, stiff to hard		4.49	6	SS	10				2 16 56 26
5					7	SS	11				
6	Power Auger 171 mm O.D.,83 mm I.D., Hollow Stem Auger				8	SS	28				
7					9	SS	31				
8					10	SS	35				
					11	SS	43				26 32 (42)
9					12	SS	57				
10					13	SS	56				
		CONTINUED NEXT PAGE									

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

DEPTH SCALE

1 : 50

GOLDER

LOGGED: EN

CHECKED: MTI

PROJECT: 21453515

RECORD OF BOREHOLE: 21-54

SHEET 2 OF 5

LOCATION: N 4823273.84; E 614411.26

BORING DATE: October 8 to 14, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
10		*--- CONTINUED FROM PREVIOUS PAGE ---*						
	Power Auger	(CL) Sandy SILTY CLAY to (CL) Gravelly sandy SILTY CLAY; grey (TILL); cohesive, w~PL to w<PL, stiff to hard			13	SS	56	
				68.39				
		SHALE, grey, weathered rock		10.67 68.19	14	SS	50/ 0.05	
11		END OF BOREHOLE Borehole cored from a depth of 10.87 m to 35.15 m For rock coring details refer to Record of Drillhole 21-54		10.87				
12								
13								
14								
15								
16								
17								
18								
19								
20								

DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m: 20 40 60 80

SHEAR STRENGTH Cu, kPa — nat V. + Q - ● rem V. ⊕ U - ○: 20 40 60 80

HYDRAULIC CONDUCTIVITY, k, cm/s: 10^{-6} 10^{-5} 10^{-4} 10^{-3}

WATER CONTENT PERCENT: Wp — W — Wl: 10 20 30 40

ADDITIONAL LAB. TESTING

DEPTH SCALE

1 : 50

LOGGED: EN

CHECKED: MTI

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-54

SHEET 3 OF 5

LOCATION: N 4823273.84 ;E 614411.26

DRILLING DATE: October 8 to 14, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-54		68.19															
11	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds		10.87	1							CO,PL,RO,SA	1.5	2	20				Lost Core
																			Limestone
												CO,UN,SM,PC,CL	2	4	16				Limestone
												BD,UN,SM,PC,CL	2	4	16				
12												CO,UN,SM,SA	2	2	20				Limestone
					2														Limestone
13												CO,UN,RO,PC,CL	3	4	20				Limestone
																			Limestone
14					3							BD,PL,SM,SA	1	2	16				Limestone
																			Limestone
																			Limestone
																			Limestone
																			Limestone
15												CO,PL,RO	1.5	2	20				Limestone
												BD,UN,SM,SA	2	2	20				Limestone
																			Limestone
																			Limestone
																			Limestone
					4							CO,UN,SM,SA	2	2	20				Limestone
16												BD,PL,SM,SA	1	2	16				Limestone
																			Limestone
17																			Limestone
					5							CO,UN,RO,PC,CL	3	4	20				Limestone
																			Limestone
18												CO,PL,SM,CC,CL	1	4	12				Limestone
																			Limestone
19					6														Limestone
																			Limestone
20					7														
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: EN
CHECKED: DP

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-54

SHEET 4 OF 5

LOCATION: N 4823273.84 ;E 614411.26

DRILLING DATE: October 8 to 14, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
21	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			7							CO,UN,SM,SA	2	2	20			BC	
												CO,PL,SM,CC,CL	1	4	12			Limestone	
												CO,PL,SM,IN,CL, 15 mm BD,PL,SM,IN,CL, 2 mm	1 1	15 8	0 6			Limestone	
22					8													Limestone	
																		Limestone	
																		Limestone	
23					9													Limestone	
																		Limestone	
					10													Limestone	
																		Limestone	
24																			
					11														
25																			
					12													Limestone	
26																			
												BD,UN,SM,SA	2	2	20				
		UCS = 26.6 MPa			13													Axial Dia	
27																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
28																		Axial Dia	
					14													Limestone	
																		Limestone	
																		Limestone	
29																		Limestone	
																		Limestone	
					15													Limestone	
30												CO,UN,RO	3	2	25			Limestone	
					16													Limestone	
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: EN
CHECKED: DP

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-54

SHEET 5 OF 5

LOCATION: N 4823273.84 ;E 614411.26

DRILLING DATE: October 8 to 14, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATH-ERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
31	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			16													Limestone	
32																		Limestone Limestone Limestone Limestone Limestone	
33					17													Limestone Limestone Limestone Limestone Limestone	
34					18													Limestone Limestone Limestone Limestone	
35				43.91														BC Limestone	
		END OF DRILLHOLE NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.		35.15															
36																			
37																			
38																			
39																			
40																			

DEPTH SCALE
1 : 50

LOGGED: EN
CHECKED: DP

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-55

SHEET 1 OF 1

LOCATION: N 4823381.43; E 614490.23

BORING DATE: October 15 to 18, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80)	SHEAR STRENGTH Cu, kPa (nat V. +, rem V. ⊕, Q - ●, U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3})	WATER CONTENT PERCENT (Wp, W, Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		GROUND SURFACE		77.88									
0	Hydrovac	ASPHALT (290 mm)		0.00 / 77.59									
		FILL - (SP) Gravelly SAND; brown; non-cohesive, moist		0.29	1	GS							
1													
					2	GS							
2													
					3	GS							
3				74.98									
		(CL) SILTY CLAY, some gravel; grey (TILL); cohesive, w<PL, hard		2.90	4	SS	90/ 0.28						
4	Power Auger 171 mm O.D. 83 mm I.D. Hollow Stem Auger				5	SS	97/ 0.20						
				73.10	6A	SS	51						
		(CL) SILTY CLAY, some sand, contains shale fragments; grey, (RESIDUAL SOIL); cohesive, w~PL, hard		4.78	6B								
5					7	SS	78						
					8	SS							
6				71.33									
		Inferred grey SHALE BEDROCK (Georgian Bay Formation)		6.55									
				70.98	9	SS	50/ 0.05						
7		END OF BOREHOLE Borehole cored from a depth of 6.90 m to 33.96 m For rock coring details refer to Record of Drillhole 21-55		6.90									
8													
9													
10													

DEPTH SCALE

1 : 50

GOLDER

LOGGED: AY

CHECKED: MTI

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-55

SHEET 1 OF 3

LOCATION: N 4823381.43 ;E 614490.23

DRILLING DATE: October 15 to 18, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jconn	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-55		70.98															
7	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds		6.90	1							BD,PL,RO,IN,CL,10 mm	1.5	15	0				BC
												BD,PL,SM,PC,CL	1	4	12				Limestone
																			CLAY
												BD,PL,SM,PC,GO	1	3	12				
8					2							BD,PL,SM,SA	1	2	16				
																			CLAY
												BD,IR,RO,SA	3	2	22				
9																			
10					3							BD,PL,SM,PC,CL	1	4	12				Limestone
																			Limestone
11					4														Limestone
12																			
13					5							BD,PL,RO,PC,CL	1.5	4	16				Limestone
																			Limestone
												BD,PL,SM,CC,CL	1	4	12				Limestone
												BD,PL,RO,PC,CL	1.5	4	16				Limestone
												CO,PL,SM,SA	1	2	16				Limestone
14					6														
												CO,PL,SM,SA	1	2	16				Limestone
																			Limestone
15																			
																			Limestone
16					7														
																			Limestone
												BD,PL,SM,PC,CL	1	4	12				Limestone

CONTINUED NEXT PAGE

DEPTH SCALE
1 : 50

GOLDER

LOGGED: AY
CHECKED: EN

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-55

SHEET 2 OF 3

LOCATION: N 4823381.43 ;E 614490.23

DRILLING DATE: October 15 to 18, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
17	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			7														
18					8														
19					9														
20												CO,ST,RO	3	2	25				
												CO,PL,RO,CC,CL	1.5	4	16			Limestone	
21					10							CO,PL,SM,SA	1	2	16			Limestone	
																		Limestone	
																		Limestone	
22																		Limestone	
					11														
23																			
24					12														
25																			
					13													Limestone	
26																		Limestone	
																		Axial	
																		Dia	
																		Limestone	
		UCS = 17.3 MPa			14													Limestone	
																		Limestone	
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: EN

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-55

SHEET 3 OF 3

LOCATION: N 4823381.43 ;E 614490.23

DRILLING DATE: October 15 to 18, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	DISCONTINUITY DATA: Jr	DISCONTINUITY DATA: Ja	DISCONTINUITY DATA: Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
27	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			14													Limestone Limestone Limestone Limestone	
28												CO,PL,SM,PC,CL	1	4	12			Limestone Limestone	
29					15													Limestone Limestone	
30					16													Limestone	Axial Dia
31																		Limestone Limestone Limestone	
32					17													Limestone Limestone Limestone Limestone	
33					18													Limestone Limestone	
34		END OF DRILLHOLE		43.92 33.06														Limestone	
35		NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.																	
36																			

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: EN

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-56

SHEET 1 OF 4

LOCATION: N 4823475.75; E 614580.06

BORING DATE: October 25 to 27, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80)	SHEAR STRENGTH Cu, kPa (nat V. +, rem V. ⊕, Q - ●, U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3})	WATER CONTENT PERCENT (Wp, W, Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		GROUND SURFACE		78.60									
0	Hydrovac	(SP) Gravelly SAND; brown; non-cohesive, moist		0.00	1	GS							
				77.84									
1		(CL) SILTY CLAY, trace sand, trace gravel; brown; cohesive, w<PL, very stiff to hard		0.76	2	GS							
2					3	GS							
3	Power Auger 171 mm O.D.,83 mm I.D., Hollow Stem Auger				4	SS	50/ 0.10						
4					5	SS	22						
					6	SS	32						
5				73.27									
		Inferred grey SHALE BEDROCK (Georgian Bay Formation)		5.33	7	SS	50/ 0.07						
6				72.50									
		END OF BOREHOLE Borehole cored from a depth of 5.56 m to 32.40 m For rock coring details refer to Record of Drillhole 21-55		6.10									
7													
8													
9													
10													

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: MTI

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-56

SHEET 2 OF 4

LOCATION: N 4823475.75 ;E 614580.06

DRILLING DATE: October 25 to 27, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jconn	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-56		72.50															
		Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds		6.10															
					1						90	BD,PL,SM,PC,CL	1	4	12				
											90	BD,UN,RO	3	2	25				
											90	BD,UN,SM,SA	2	2	20				
											90	BD,PL,SM,SA	1	2	16				
											90	CO,PL,SM,PC,CL	1	4	12				
											90	BD,PL,RO,PC,CL	1.5	4	16				
											90	CO,UN,RO,PC,CL	3	4	20				
7											90	CO,UN,SM,SA	2	2	20				
					2						90	BD,PL,SM,PC,CL	1	4	12				
											90	CO,PL,RO,PC,CL	1.5	4	16				
											90	BD,PL,SM,PC,CL	1	4	12				
											90	BD,PL,SM	1	2	16				
											90	BD,PL,SM,PC,CL	1	4	12				
8											90	BD,PL,SM,PC,CL	1	4	12				
											90	CO,PL,SM,SA	1	2	16				
					3						90	BD,PL,SM,SA	1	2	16				
9											90	BD,PL,SM,PC,CL	1	4	12				
											90	BD,UN,SM,SA	2	2	20				
10																			
					4						90	BD,PL,SM,IN,CL, 3 mm	1	8	6				
											90	CO,PL,SM,SA	1	2	16				
											90	BD,PL,SM,PC,CL	1	4	12				
11																			
					5						90	BD,UN,SM,PC,CL	2	4	16				
12																			
											90	CO,UN,SM,SA	2	2	20				
13																			
					6						90	CO,UN,RO,PC,CL	3	4	20				
											90	CO,PL,SM,PC,CL	1	4	12				
											90	BD,UN,SM,PC,CL	2	4	16				
14																			
											90	BD,UN,SM,SA	2	2	20				
											90	BD,PL,SM,PC,CL	1	4	12				
					7						90	CO,PL,SM	1	2	16				
											90	CO,PL,SM,SA	1	2	16				
15											90	CO,PL,SM	1	2	16				
											90	CO,PL,RO	1.5	2	20				
											90	CO,PL,SM,SA	1	2	16				
											90	CO,PL,RO	1.5	2	20				
					8						90	CO,PL,SM	1	2	16				
16											90	CO,PL,SM,SA	1	2	16				
		CONTINUED NEXT PAGE																	

Rotary Diamond Drill
HQ3 Core

BC
Limestone

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: SK

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-56

SHEET 3 OF 4

LOCATION: N 4823475.75 ;E 614580.06

DRILLING DATE: October 25 to 27, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
17	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			8														
18					9							BD,PL,SM,SA	1	2	16			Limestone	
19												CO,UN,SM,SA	2	2	20				
20					10							CO,PL,SM,PC,CL	1	4	12			Limestone	
21					11							CO,UN,SM,SA	2	2	20			Limestone	
22												BD,PL,SM,SA	1	2	16			Limestone	
23					12							BD,PL,SM,PC,CL	1	4	12			Limestone	
24		UCS = 20.6 MPa			13													Limestone	
25																		Limestone	
26					14							BD,PL,SM,SA	1	2	16			Limestone	
		CONTINUED NEXT PAGE																Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Axial Dia	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: SK

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-56

SHEET 4 OF 4

LOCATION: N 4823475.75 ;E 614580.06

DRILLING DATE: October 25 to 27, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
27	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			14													Limestone	
																		Limestone	
					15													Limestone	
																		Limestone	Axial Dia
28																		Limestone	
																		Limestone	
																		Limestone	
					16													Limestone	
																		Limestone	
29																		Limestone	
												BD,UN,SM,PC,CL	2	4	16			Limestone	
																		Limestone	
30					17													Limestone	
																		Limestone	
																		Limestone	
31												BD,PL,SM	1	2	16			Limestone	
					18													Limestone	
																		Limestone	
32																		Limestone	
				46.20															
		END OF DRILLHOLE		32.40															
		NOTES:																	
33		1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.																	
34																			
35																			
36																			

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: SK

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-57

SHEET 1 OF 4

LOCATION: N 4823572.19; E 614635.22

BORING DATE: November 30 to December 1, 2022

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp W WI; 10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		GROUND SURFACE		79.69							
0	Hydrovac	ASPHALT (130 mm)		0.00							
		FILL - (CL) Gravelly Sandy SILTY CLAY, trace rock pieces; brown; cohesive, w>PL		0.13 / 79.08	1	GS					36 33 (31)
1		(CL) SILTY CLAY, trace sand, rock pieces; brown; cohesive, w~=PL		0.61 / 78.47	2	GS					
		(GP) GRAVEL, some clay, some silt, trace sand; grey; non-cohesive, w~=PL		1.22 / 77.71	3	GS					49 6 25 20
2		(CL) SILTY CLAY; grey; cohesive (Sample not recovered)		1.98							
3	Power Auger 171 mm O.D.,83 mm I.D., Hollow Stem Auger	(SM) Gravelly SILTY SAND; brown; cohesive, moist, very dense		3.05 / 76.64	4	SS	50/ 0.07				
4					5	SS	78			▼= 22.9 KN/m³	21 47 (32)
		END OF BOREHOLE Borehole cored from a depth of 4.77 m to 33.38 m For rock coring details refer to Record of Drillhole 21-57		4.77 / 74.92							RQD = 13%
5											
6											
7											
8											
9											
10											

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: AM

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-57

SHEET 2 OF 4

LOCATION: N 4823572.19 ;E 614635.22

DRILLING DATE: November 30 to December 1, 2022

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-57	74.92															
5	Rotary Diamond Drill HQ3 Core	Completely weathered, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds	4.77	1							BD,IR,RO,PC,CL	3	2	25			BC	
			74.60														CLAY	
		Highly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds	5.09														Limestone	
																	BC	
6				2													Limestone	
7				3							CO,PL,SM CO,PL,RO,CC,CL	1 1.5	2 2	16 20			Limestone	
																	CLAY	
8																	Limestone Limestone Limestone	
				4							BD,PL,SM,IN,CL, 5 mm BD,IR,RO,IN,GO, 8 mm	1 3	2 2	16 25			Limestone	
9											BD,PL,RO BD,PL,RO	1.5 1.5	2 2	20 20				
											CO,PL,SM	1	2	16			Limestone	
10				5														
11																	Limestone	
																	Limestone	
																	BC	
12				6													Limestone Limestone	
13				7							BD,PL,SM	1	2	16			Limestone	
																	Limestone	
																	Limestone	
																	Limestone Limestone	
14																	Limestone Limestone	
																	Limestone	
				8							CO,PL,SM BD,UN,VR	1 3	2 2	16 25			Limestone Limestone	

CONTINUED NEXT PAGE

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: MTI

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-57

SHEET 3 OF 4

LOCATION: N 4823572.19 ;E 614635.22

DRILLING DATE: November 30 to December 1, 2022

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
15	Rotary Diamond Drill HQ3 Core	Highly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			8														
16												CO,UN,RO	3	2	25			Limestone	
					9													Limestone Limestone	
17												BD,PL,SM	1	2	16				
																		Limestone	
																		Limestone	
18					10													Limestone Limestone Limestone	
19																		Limestone	
					11														
20																			
												BD,UN,RO	3	2	25				
21					12													Limestone	
																		Limestone Limestone Limestone	
												CO,PL,RO	1.5	2	20				
22																		CLAY	
												CO,PL,RO	1.5	2	20			Limestone Limestone	
					13													Limestone Limestone	
23																		Limestone Limestone	
24					14														
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: MTI

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-57

SHEET 4 OF 4

LOCATION: N 4823572.19 ;E 614635.22

DRILLING DATE: November 30 to December 1, 2022

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
25	Rotary Diamond Drill HQ3 Core	Highly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			14														
26					15							BD,UN,RO,PC,CL BD,PL,SM	3 1	2 2	25 16				
27																		Axial Dia	
28		UCS = 169.2 MPA			16							BD,PL,SM,PC,CL	1	2	16			Limestone Limestone Limestone Limestone Limestone	
29					17													Limestone Limestone Limestone Limestone Limestone Limestone	
30					18													Limestone Limestone Limestone Limestone Limestone	
31																		Limestone Limestone Limestone	
32					19													Limestone Limestone Limestone Limestone Limestone Limestone	
33					20													Limestone Limestone	
		END OF DRILLHOLE		46.31 33.38															
34		NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: MTI

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-58

SHEET 1 OF 5

LOCATION: N 4823692.02; E 614725.33

BORING DATE: March 9 to 16, 2022

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: B-57 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80)	SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3})	WATER CONTENT PERCENT (Wp — W — Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		GROUND SURFACE		81.06									
0	Hydrovac	ASPHALT (320 mm)		0.00 / 80.74									
		(CL-ML) SILTY CLAY - CLAYEY SILT, trace sand, trace gravel; brown; non-cohesive, moist		0.32	1	SA							Sand
1					2	SA							
					3	SA							
2		- Contains cobble/boulder between 2.29 m and 3.05 m											
3				78.01									
		(CL) SILTY CLAY, trace to some sand, trace to some gravel; grey; cohesive, moist, hard		3.05	4	SS	42						35 33 24 8
4					5	SS	43						
					6A	SS	31						
5					6B								Grout
				75.80									
	Power Auger 171 mm O.D., 83 mm I.D., Hollow Stem Auger	(SP) Gravelly SAND, some silt to silty; grey; non-cohesive, moist to wet, very dense		5.26	7	SS	73/ 0.20						
6					8	SS	64						18 67 12 3
7					9	SS	64						
					10	SS	62						
8					11	SS	54						20 68 9 3
9					12	SS	53						
		- Rock fragments at tip of the spoon at 9.75 m			13	SS							
10		*CONTINUED NEXT PAGE*											

DEPTH SCALE

1 : 50

WSP GOLDER

LOGGED: AY

CHECKED: DP

GTA-BHS 005 R:\ONTARIO\SIMCLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-58

SHEET 2 OF 5

LOCATION: N 4823692.02; E 614725.33

BORING DATE: March 9 to 16, 2022

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: B-57 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80)	SHEAR STRENGTH Cu, kPa (nat V. +, rem V. ⊕, Q - ●, U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3})	WATER CONTENT PERCENT (Wp, W, Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
10		*--- CONTINUED FROM PREVIOUS PAGE ---*											
10	Power Auger	(SP) Gravelly SAND, some silt to silty; grey; non-cohesive, moist to wet, very dense - Shale fragments at 10.24 m-10.36 m - Cobble/boulder between 10.36 m and 11.11 m			13	SS	81/ 0.18						
11				69.95 11.11									
		END OF BOREHOLE Borehole cored from a depth of 11.11 m to 34.07 m For rock coring details refer to Record of Drillhole 21-58											
12													
13													
14													
15													
16													
17													
18													
19													
20													

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

DEPTH SCALE

1 : 50

GOLDER

LOGGED: AY

CHECKED: DP

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-58

SHEET 3 OF 5

LOCATION: N 4823692.02 ;E 614725.33

DRILLING DATE: March 9 to 16, 2022

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: B-57 Truck Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATH-ERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-58		69.95															
	Rotary Diamond Drill HQ3 Core	Slightly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds		11.11	1							BD,PL,SM	1	2	16			Limestone	
												BD,PL,RO	1.5	2	20			Limestone	
												BD,PL,SM	1	2	16				
												BD,PL,SM,PC,CL	1	4	12			Limestone	
12												CO,PL,RO,PC,GO	1.5	3	20			Limestone	
												BD,UN,RO,PC,CL	3	4	20				
13					2														
												CO,UN,RO,PC,CL	3	4	20			Limestone	
												BD,UN,RO,PC,CL	3	4	20				
												BD,PL,SM	1	2	16				
14												CO,PL,SM	1	2	16			Limestone	
					3							CO,PL,SM	1	2	16			Limestone	
15												BD,PL,SM	1	2	16			Limestone	
												CO,UN,RO,PC,CL	3	4	20			Limestone	
												CO,PL,SM,PC,CL	1	4	12			Limestone	
												BD,UN,RO	3	2	25			Limestone	
												BD,ST,RO	3	2	25				
												CO,UN,RO,PC,CL	3	4	20			Limestone	
16												CO,UN,SM,IN,CL, 25 mm	2	15	0			Limestone	Grout
					4							CO,UN,SM,IN,CL, 5 mm	2	15	0			Limestone	
												BD,UN,RO,PC,CL	3	4	20			Limestone	
												CO,UN,RO	3	2	25			Limestone	
												CO,ST,RO	3	2	25			Limestone	
17																			
												BD,PL,SM,IN,CL	1	4	12				
												BD,PL,SM	1	2	16				
18												CO,PL,SM	1	2	16			Limestone	
					6													Limestone	
19																			
20																			
					7														
21																			
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: DP

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-58

SHEET 4 OF 5

LOCATION: N 4823692.02 ;E 614725.33

DRILLING DATE: March 9 to 16, 2022

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: B-57 Truck Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
22	Rotary Diamond Drill HQ3 Core	Slightly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			7							CO,UN,RO	3	2	25			Limestone	
												BD,PL,SM,PC,CL	1	4	12			Limestone	
												CO,PL,RO,PC,CL	1.5	4	16			Limestone	
												BD,PL,SM	1	2	16			Limestone	
					8							BD,PL,SM,IN,CL, 30 mm	1	15	0			Limestone	
23												BD,PL,RO	1.5	2	20			Limestone	
					9							BD,CU,RO	3	2	25			Limestone	Grout
24												BD,PL,SM	1	2	16			Limestone	
												CO,UN,RO,PC,CL	3	4	20			Limestone	
25												BD,PL,SM,IN,CL, 5 mm	1	15	0			Limestone	
					10							BD,UN,RO	3	2	25			Limestone	Axial Dia
26												BD,PL,SM	1	2	16				
												BD,UN,RO,PC,CL	3	4	20				
27					11							BD,PL,SM	1	2	16			Limestone	
												BD,PL,SM,IN,CL, 10 mm	1	15	0			Limestone	
												CO,PL,SM,PC,CL	1	4	12			Limestone	Bentonite
28												BD,UN,RO,PC,CL	3	4	20			Limestone	
												BD,ST,RO,PC,CL	3	4	20			Limestone	
					12							CO,PL,SM	1	2	16			Limestone	
29												CO,ST,RO	3	2	25			Limestone	
												CO,PL,RO,PC,CL	1.5	4	16			Limestone	
30					13							CO,UN,RO,PC,CL	3	4	20			Limestone	Sand
												BD,PL,SM,PC,CL	1	4	12			Limestone	
31					14													Limestone	
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: DP

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-58

SHEET 5 OF 5

LOCATION: N 4823692.02 ;E 614725.33

DRILLING DATE: March 9 to 16, 2022

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: B-57 Truck Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	DISCONTINUITY DATA: Jr	DISCONTINUITY DATA: Ja	DISCONTINUITY DATA: Jcon	WEATH-ERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
32	Rotary Diamond Drill HQ3 Core	Slightly weathered to fresh, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds			14							CO,UN,RO,PC,CL	3	4	20			Limestone	Limestone Sand Screen
												BD,PL,SM,IN,CL, 5 mm	1	15	0			Limestone Limestone	Sand Screen
33					15													Limestone Limestone Limestone	Sand Bentonite
34				46.99														Limestone Limestone Limestone	
		END OF DRILLHOLE		34.07															
		NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling. 2. Groundwater level measurements in the monitoring well: (screened from 28.9 m to 32.0 m) Date Depth (m) Elev. (m) XXX XXX XXX																	
35																			
36																			
37																			
38																			
39																			
40																			
41																			

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: DP

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-59

SHEET 1 OF 4

LOCATION: N 4822776.25; E 614039.34

BORING DATE: February 09 to 11, 2022

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: B-57 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
0	Power Auger 171 mm O.D. 83 mm I.D., Hollow Stem Auger	GROUND SURFACE		79.35							
		ASPHALT (150 mm)		0.00							
		(SP) SAND, trace fine, some gravel; brown; non-cohesive, dry, dense		0.15	1	SS	41	ND			
				78.59							
1		(ML) Sandy SILT; brown to grey; non-cohesive, moist, dense		0.76	2	SS	35	ND			
					3	SS	35	ND			
2				77.14							
		(CL-ML) SILTY CLAY-CLAYEY SILT, some sand; grey; cohesive, very stiff		2.21	4	SS	17	ND			
				76.38							
3		(CL) SILTY CLAY; grey; cohesive, w~=PL, very soft to firm		2.97	5	SS	6	ND			
					6	SS	2	ND			
4					7	SS	7	ND			
					8A			ND			
5				73.57							
		(CL) SILTY CLAY, some gravel; grey (TILL); cohesive, w<PL, soft to firm		5.78	8B	SS	4	ND			
6					9	SS	12	ND			
					10	SS	37	ND			
7				72.03							
		Inferred grey SHALE BEDROCK (Georgian Bay Formation)		7.32	11	SS	50/0.13	ND			
				71.81							
		END OF BOREHOLE		7.54							
8		Borehole cored from a depth of 7.54 m to 34.87 m									
		For rock coring details refer to Record of Drillhole 21-59									
9											
10											

DEPTH SCALE

1 : 50

LOGGED: AY

CHECKED: AM

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-59

SHEET 2 OF 4

LOCATION: N 4822776.25 ;E 614039.34

DRILLING DATE: February 09 to 11, 2022

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: B-57 Truck Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-59		71.81															
8	Rotary Diamond Drill HQ3 Core	Slightly weathered, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds		7.54	1		80 60 40 20	80 60 40 20	80 60 40 20	5 10 15 20	0 30 60 90	BD,PL,SM,PC,CL	1	4	12	W1 W2 W3 W4 W5 W6	2 4 6		
												BD,PL,SM,SA	1	2	16				
												BD,UN,RO	3	2	25				
												CO,ST,SM,PC,CL	2	4	16			Limestone	
												CO,PL,SM,PC,CL	1	4	12			Limestone	
9					2							CO,PL,RO	1.5	2	20			Limestone	
												CO,UN,RO	3	2	25				
												BD,UN,SM	2	2	20			Limestone	
												BD,PL,SM	1	2	16				
												CO,PL,SM	1	2	16			Limestone	
10												CO,PL,SM,PC,CL	1	4	12			Limestone	
												CO,PL,RO	1.5	2	20			Limestone	
												CO,PL,RO,PC	1.5	4	16			Limestone	
												BD,PL,SM,CC,CL,5 mm	1	4	12			Limestone	
												BD,PL,SM,CC,CL	1	4	12			Limestone	
												CO,PL,RO	1.5	2	20			Limestone	
11					3							CO,PL,SM	1	2	16			Limestone	
12												BD,PL,SM	1	2	16				
												BD,PL,RO	1.5	2	20			Limestone BC	
												BD,PL,SM,CC,CL,1 mm	1	4	12				
13					4													Limestone	
																		Limestone	
14												BD,PL,SM,PC,CL	1	4	12			Limestone	
												BD,PL,SM	1	2	16			Limestone	
					5													Limestone	
15																		Limestone	
16					6													Limestone	
																		Limestone	
17					7							CO,PL,SM,PC,CL	1	4	12			Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: DP

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-59

SHEET 3 OF 4

LOCATION: N 4822776.25 ;E 614039.34

DRILLING DATE: February 09 to 11, 2022

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: B-57 Truck Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
18	Rotary Diamond Drill HQ3 Core	Slightly weathered, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds			7							BD,PL,SM	1	2	16			Limestone	
												BD,PL,RO	1.5	2	20			Limestone	
																		Limestone	
												CO,PL,SM	1	2	16			Limestone	
												BD,PL,SM,PC,CL	1	4	12				
19					8													Limestone	
												CO,UN,RO	3	2	25			Limestone	
												CO,PL,RO	1.5	2	20			Limestone	
																		Limestone	
20																		Limestone	
												BD,PL,SM,PC,CL	1	4	12				
												CO,PL,SM	1	2	16			Limestone	
					9														
21																			
												BD,PL,SM	1	2	16			Limestone	
22					10														
23												BD,UN,RO	3	2	25				
												BD,PL,SM,PC,CL	1	4	12			Limestone	
																		Limestone	
																		Limestone	
					11													Limestone	
24																		Limestone	
												BD,UN,SM,PC,CL	2	4	16				
												BD,UN,SM,PC,CL,1 mm	2	4	16			Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
25																		Limestone	
					12													Limestone	
26																		Limestone	
					13							BD,UN,RO	3	2	25				
												BD,UN,SM	2	2	20			Limestone	
27												BD,PL,SM	1	2	16				
		UCS = 21.7 MPa																Axial Dia	
					14														
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: DP

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-59

SHEET 4 OF 4

LOCATION: N 4822776.25 ;E 614039.34

DRILLING DATE: February 09 to 11, 2022

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: B-57 Truck Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATH-ERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
28	Rotary Diamond Drill HQ3 Core	*--- CONTINUED FROM PREVIOUS PAGE ---*																	
		Slightly weathered, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds			14							CO,UN,SM,PC,CL	2	4	16			Limestone	
												CO,UN,SM	2	2	20			Limestone	
29																		Limestone	
					15														
30																		Limestone	
												BD,PL,SM,PC,CL	1	4	12			Limestone	
31					16							CO,PL,SM	1	2	16			Limestone	
												CO,UN,RO	3	2	25				
												BD,UN,RO	3	2	25			Limestone	
												BD,UN,RO	3	2	25				
32												CO,PL,RO,PC,CL	1.5	4	16			Limestone	
																		Limestone	
												BD,UN,SM,PC,CL	2	4	16			Limestone	
					17														
33																		Limestone	
																		Limestone	
34					18													Limestone	
																		Limestone	
				44.48								BD,PL,SM,CC,CL	1	4	12				
												BD,UN,SM,PC,CL	2	4	16				
35		END OF DRILLHOLE		34.87															
		NOTES:																	
		1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.																	
36																			
37																			

DEPTH SCALE
1 : 50

GOLDER

LOGGED: AY
CHECKED: DP

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-60

SHEET 1 OF 4

LOCATION: N 4823018.91; E 614190.71

BORING DATE: September 30 to October 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		GROUND SURFACE		77.03							
0		TOPSOIL (300 mm)		0.00 / 76.73	1	SS					
		FILL - (SP-SM) SANDY SILT TO SILTY SAND; trace to some gravel, trace organics, rootlets; brown; non-cohesive, moist, compact to dense		0.30	2	SS	10				Sand
1					3	SS	34				12 88 (38)
					4A	SS	12				
2		FILL - (CL) SILTY CLAY, some sand to sandy, trace to some gravel; grey, wood pieces; cohesive, moist, stiff		75.05 / 1.98	4B			ND			
					5	SS	12	ND			
3					6	SS	11				
		- Plastic and wood at 3.81 m to 4.42 m									Grout
4					7	SS	57/0.20				
	Power Auger				8	SS	7				
5	171 mm O.D.;83 mm I.D.; Hollow Stem Auger			71.78							
		(OL) ORGANIC SILT, some sand to sandy, some gravel, rootlets; grey to black, shell fragments, wood pieces; cohesive, moist to wet, soft to stiff		5.25	9	SS	3	ND		129.6	11 25 56 8
6					10	SS	4			133.1	
					11	SS	4	ND			
7											
					12	SS	4			75.5	
8											Bentonite
					13	SS	5	ND			
9					14	SS	11				
					15	SS	6				
10		*CONTINUED NEXT PAGE*									

DEPTH SCALE

1 : 50

WSP GOLDER

LOGGED: AY

CHECKED: SS

GTA-BHS 005 R:\ONTARIO\SIMCLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-60

SHEET 2 OF 4

LOCATION: N 4823018.91; E 614190.71

BORING DATE: September 30 to October 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 55 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		--- CONTINUED FROM PREVIOUS PAGE ---									
10	Power Auger 171 mm O.D., 83 mm I.D., Hollow Stem Auger	(OL) ORGANIC SILT, some sand to sandy, some gravel, rootlets; grey to black, shell fragments, wood pieces; cohesive, moist to wet, soft to stiff		66.45	15	SS	6	ND	52.5		Sand
		(SM) SAND, trace rootlets; grey, shell fragments; non-cohesive, moist, loose to very loose		10.58	16	SS	4	ND		γ = 16.89 KN/m³	0 96 (4)
11				65.50	17A						
		(SM-SP) SILTY SAND to poorly graded SAND, trace to some gravel; grey, shell fragments; non-cohesive, moist, loose to compact		11.53	17B	SS	2	ND			Screen
12					18	SS	6	ND	183		
13					19	SS	14				Sand
				63.31							
		Inferred grey SHALE BEDROCK (Georgian Bay Formation)		13.72	20	SS	50/ 0.10				
14		END OF BOREHOLE Borehole cored from a depth of 13.84 m to 32.2 m For rock coring details refer to Record of Drillhole 21-50		13.84							
15											
16											
17											Bentonite
18											
19											
20											

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: SS

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-60

SHEET 3 OF 4

LOCATION: N 4823018.91 ;E 614190.71

DRILLING DATE: September 30 to October 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATH-ERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-60		63.19															
14	Rotary Diamond Drill HQ3 Core	'Moderately weathered to fresh, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds		13.84	1							BD,PL,RO,CC,CL CO,PL,RO CO,IR,RO,CC, CL	1.5 1.5 3	4 2 4	16 20 20			Lost Core Limestone Limestone Limestone Limestone	
15					2													Limestone Limestone	
16					3							BD,PL,SM	1	2	16				
17												BD,UN,SM,SA	2	2	20				
18					4							BD,PL,SM,CC,CL BD,IR,RO,CC,CL BD,IR,SM,CC,CL	1 3 2	4 4 4	12 20 16				
19					5							BD,PL,SM	1	2	16			Bentonite	
20												CO,PL,RO,PC,CL CO,PL,RO,PC,CL	1.5 1.5	4 4	16 16			Limestone	
21					6							CO,CU,SM BD,PL,SM	2 1	2 2	20 16			Limestone	
22					7							BD,PL,SM,PC,CL CO,PL,SM CO,PL,SM,CC,CL	1 1	4 2	12 16			Limestone	
23		UCS = 13 MPa			8							CO,PL,SM BD,PL,SM,PC,CL BD,ST,RO,PC,CL CO,UN,SM,PC,CL BD,UN,SM CO,UN,SM,SA	1 1 3 2 2 2	2 4 4 4 2 2	16 12 20 16 20 20			Limestone Limestone Limestone Limestone Limestone Limestone Limestone Limestone Axial Dia	
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

GOLDER

LOGGED: AY
CHECKED: EN

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-60

SHEET 4 OF 4

LOCATION: N 4823018.91 ;E 614190.71

DRILLING DATE: September 30 to October 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
24	Rotary Diamond Drill HQ3 Core	*--- CONTINUED FROM PREVIOUS PAGE ---*																	
		'Moderately weathered to fresh, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds			8														
25					9							BD,UN,SM,SA	2	2	20			Axial Dia Limestone	
26																		Limestone Limestone	
27					10							CO,IR,RO,PC,CL CO,PL,SM,PC,CL	3 1	4 4	20 12			Limestone Limestone Lost Core	
28																		Limestone	Bentonite
					11													Limestone Limestone Limestone Limestone	
29																		Limestone	
					12													Limestone	
30																		Limestone	
31					13														
32				44.81															
		END OF DRILLHOLE		32.22															
33		NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling. 2. Groundwater level measurements in the monitoring well: (screened from 10.4 m to 13.4 m)																	
		CONTINUED NEXT PAGE																	

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: EN

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-60

SHEET 4 OF 4

LOCATION: N 4823018.91 ;E 614190.71

DRILLING DATE: September 30 to October 1, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES | DRILLING RECORD | DESCRIPTION | SYMBOLIC LOG | ELEV. / DEPTH (m) | RUN No. | FLUSH RETURN | RECOVERY: TOTAL CORE % (80 60 40 20) | RECOVERY: SOLID CORE % (80 60 40 20) | R.Q.D. % (80 60 40 20) | FRACT. INDEX PER 0.25 m (5 10 15 20) | DISCONTINUITY DATA: DIP w.r.t. CORE AXIS (0 30 60 90) | DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION | Jr | Ja | Jcon | WEATHERING INDEX (W1 W2 W3 W4 W5 W6) | Diametral Point Load Index (MPa) (2 4 6) | FEATURES | PIEZOMETER

--- CONTINUED FROM PREVIOUS PAGE ---

Date Depth (m) Elev. (m)
XXX XXX XXX

34
35
36
37
38
39
40
41
42
43

DEPTH SCALE
1 : 50

LOGGED: AY
CHECKED: EN

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-61

SHEET 1 OF 2

LOCATION: N 4822623.63; E 613910.96

BORING DATE: June 24, 2022

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: B-57 Track Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80)	SHEAR STRENGTH Cu, kPa (nat V. +, rem V. ⊕, Q - ●, U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3})	WATER CONTENT PERCENT (Wp, W, Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
0		GROUND SURFACE		81.38									
	Mud Rotary / PQ Soil Core	ASPHALT (150 mm)		0.00									Concrete
		(GP) GRAVEL and SAND; grey; non-cohesive, moist		0.15	1	PQ							
1				79.86									
		(CL) SILTY CLAY, some sand; grey; cohesive, w~=PL		1.52	2	PQ							Bentonite
2													
3					3	PQ							
4				76.81									Sand
		(CL) SILTY CLAY, shale pieces (RESIDUAL SOIL); grey ; cohesive, w<PL		4.57	4	PQ							
5				75.69									Screen
		END OF BOREHOLE		5.69									
6		Borehole cored from a depth of 5.69 m to 11.31 m											
		For rock coring details refer to Record of Drillhole 21-61											
7													
8													
9													
10													

DEPTH SCALE

1 : 50

GOLDER

LOGGED: DP

CHECKED: AM

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-61

SHEET 2 OF 2

LOCATION: N 4822623.63 ;E 613910.96

DRILLING DATE: June 26, 2022

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: B-57 Track Mount

DRILLING CONTRACTOR: Landshark Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-61		75.69															
6	Rotary Diamond Drill HQ3 Core	Slightly weathered, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds		5.69	1		80 60 40 20	80 60 40 20	80 60 40 20	5 10 15 20	0 30 60 90					W1 W2 W3 W4 W5 W6	2 4 6		Lost Core
7					2							BD,PL,SM CO,PL,SM	1 1	2 2	16 16			Screen BC Limestone	
8												CO,UN,RO	3	2	25				
9					3							BD,PL,SM	1	2	16				Bentonite
10												BD,PL,SM	1	2	16			Limestone Limestone	
11				70.07	4							CO,PL,SM	1	2	16			Limestone Limestone Limestone Limestone	
		END OF DRILLHOLE		11.31															
12		NOTES: 1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling. 2. Groundwater level measurements in the monitoring well: (screened from 4.0 m to 7.0 m) Date XXX Depth (m) XXX Elev. (m) XXX																	
13																			
14																			
15																			

DEPTH SCALE
1 : 50

LOGGED: DP
CHECKED: AM

GOLDER

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-62

SHEET 1 OF 5

LOCATION: N 4823021.79; E 614232.48

BORING DATE: November 29 to December 14, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		GROUND SURFACE		77.44							
0	Hydrovac	ASPHALT (100 mm)		0.00							
		CONCRETE (150 mm)		0.10							
		FILL - (SM) SILTY SAND, trace gravel to some gravel to gravelly; brown to grey; non-cohesive, moist		0.25	1	GS		ND			
1					2	GS		ND			
2					3	GS		ND			21 72 (7)
					4	GS		ND			
3		(ML) Sandy SILT, trace sand, trace gravel; grey to black; non-cohesive, moist, very loose to loose		74.47 2.97	5	SS	1	ND			2 27 (71)
4					6	SS	4	ND			▼ = 19.0 KN/m³
5					7	SS	4	ND		H	
	Power Auger 171 mm O.D., 83 mm I.D., Hollow Stem Auger	(CL) SILTY CLAY and SAND to (CL) sandy SILTY CLAY, trace organics, rootlets; brown; cohesive, w~PL to w>PL		71.84 5.60	8	SS	7	ND			83 0 49 (51)
6											
7											
8					9	SS	9	ND			87.9 0 19 49 32
9											
10					10	SS	3	ND			
		CONTINUED NEXT PAGE									

DEPTH SCALE

1 : 50

WSP GOLDER

LOGGED: DP

CHECKED: AM

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-62

SHEET 2 OF 5

LOCATION: N 4823021.79; E 614232.48

BORING DATE: November 29 to December 14, 2021

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: CME 75 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ ND = Not Detected (20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ ND = Not Detected (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT Wp W Wl (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		--- CONTINUED FROM PREVIOUS PAGE ---									
10	Power Auger 171 mm O.D.,83 mm I.D., Hollow Stem Auger	(CL) SILTY CLAY and SAND to (CL) sandy SILTY CLAY, trace organics, rootlets; brown; cohesive, w~PL to w>PL			11A	SS	5	ND			
11					11B			ND		53.5	44 19 27 10
12		(SP) Gravelly SAND, trace fines; brown to grey; non-cohesive, moist to wet, dense to very dense		65.71 / 11.73	12	SS	39	ND		NP	35 53 (12)
13					13	SS	100/ 0.13	ND			
14		END OF BOREHOLE Borehole cored from a depth of 14.09 m to 34.66 m For rock coring details refer to Record of Drillhole 21-62		63.35 / 14.09	14	SS	100/ 0.07	ND			
15											
16											
17											
18											
19											
20											

DEPTH SCALE

1 : 50

LOGGED: DP

CHECKED: AM

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-62

SHEET 3 OF 5

LOCATION: N 4823021.79 ;E 614232.48

DRILLING DATE: November 29 to December 14, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jconn	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-62	63.35															
15	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds - Sample trapped in barrel for Run 1	14.09	1							BD,UN,RO BD,UN,RO BD,UN,RO,PC,CL BD,UN,SM BD,UN,RO	3 3 3 2 3	2 2 4 2 2	25 25 20 20 25			Lost Core Limestone Limestone BC	
16				2							BD,UN,SM BD,PL,SM BD,UN,RO,SA CO,UN,RO	2 1 3 3	2 2 2 2	20 16 22 25			Lost Core Limestone	
17				3							BD,UN,RO,PC,CL BD,UN,SM,PC,CL BD,UN,SM,SA BD,UN,RO,SO BD,UN,RO BD,UN,RO	3 2 2 3 3 3	4 4 2 2 2 2	20 16 20 25 25 25				
18											BD,UN,RO,SA BD,PL,SM,SA	3 1	2 2	22 16				
19				4							BD,UN,SM BD,UN,SM,PC,CL BD,PL,SM,PC,CL	2 2 1	2 4 4	20 16 12			Lost Core	
20											BD,UN,RO,SA BD,UN,SM,PC,CL BD,UN,SM BD,UN,RO BD,UN,RO	3 2 2 3 3	2 4 2 2 2	22 16 20 25 25			Lost Core Limestone Limestone	
21				5							BD,UN,RO,PC,CL CO,PL,RO,SA	3 1.5	4 2	20 20				
22				6							BD,PL,RO BD,PL,RO CO,PL,RO BD,PL,RO BD,UN,RO CO,PL,SM,SO CO,PL,SM CO,PL,RO BD,PL,RO	1.5 1.5 1.5 1.5 3 1 1 1.5 1.5	2 2 2 2 2 2 2 2 2	20 20 20 20 25 16 16 20 20			Limestone Lost Core Limestone Limestone Limestone	
23											CO,PL,SM	1	2	16			Limestone Limestone Limestone	
24				7								2	2	20			Limestone	
		CONTINUED NEXT PAGE																

DEPTH SCALE
1 : 50

LOGGED: DP
CHECKED: AM

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-62

SHEET 4 OF 5

LOCATION: N 4823021.79 ;E 614232.48

DRILLING DATE: November 29 to December 14, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jconn	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
	Rotary Diamond Drill HQ3 Core	Moderately weathered to fresh, thinly bedded, grey, fine grained, fine porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE/SILTSTONE interbeds			7							CO,UN,SM							
25					8														
26					9													Limestone	
																		Limestone	
												CO,UN,RO	3	2	25				
27												CO,UN,RO,SA	3	2	22				
																		Limestone	
												CO,UN,RO	3	2	25			Limestone	
																		Limestone	
28					10							BD,PL,RO	1.5	2	20			Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
																		Limestone	
29																		Limestone	
												BD,PL,SM	1	2	16				
					11							BD,UN,RO	3	2	25			Limestone	
																		Axial Dia	
30												BD,UN,RO	3	2	25			Limestone	
																		Limestone	
												CO,UN,RO	3	2	25			Limestone	
												BD,UN,RO,SA	3	2	22			Limestone	
31					12													Limestone	
																		Limestone	
		UCS = 19.6 MPa																	
																		Limestone	
32												BD,PL,SM,PC,CL	1	4	12			BC	
																		BC	
																		Limestone	
					13													Limestone	
																		Limestone	
33												BD,UN,RO	3	2	25			Limestone	
																		Limestone	
																		Limestone	
					14													Limestone	
																		Limestone	
																		Limestone	
												CO,UN,SM	2	2	20			Limestone	
34																			
		CONTINUED NEXT PAGE																	

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINTLAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

DEPTH SCALE
1 : 50

GOLDER

LOGGED: DP
CHECKED: AM

PROJECT: 21453515

RECORD OF DRILLHOLE: 21-62

SHEET 5 OF 5

LOCATION: N 4823021.79 ;E 614232.48

DRILLING DATE: November 29 to December 14, 2021

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 75 Truck Mount

DRILLING CONTRACTOR: TCI Drilling

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATH-ERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		--- CONTINUED FROM PREVIOUS PAGE ---																	
	HQ3 Core				14							BD,UN,SM	2	2	20			Limestone	
				42.78														Limestone	
		END OF DRILLHOLE		34.66															
35		NOTES:																	
36		1. No representative groundwater level was recorded upon completion of the borehole due to the addition of water for drilling.																	
37																			
38																			
39																			
40																			
41																			
42																			
43																			
44																			

DEPTH SCALE
1 : 50

LOGGED: DP
CHECKED: AM

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

PROJECT: 21453515

RECORD OF BOREHOLE: 21-63

SHEET 1 OF 2

LOCATION: N 4823119.81; E 614309.94

BORING DATE: May 31, 2022

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: B-57 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. + Q - ● rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp W Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
		GROUND SURFACE		78.97							
0	Hydrovac	ASPHALT (300 mm)		0.00 78.67							Sand
		FILL - (SM) SILTY SAND to (ML) Sandy SILT; brown to grey; non-cohesive, dry to moist, moist		0.30	1	GS	-				
1					2	GS	-				
					3	GS	-				
2					4	GS	-				
				76.08							
3		(CL) SILTY CLAY, trace sand, trace gravel; grey, (TILL); cohesive, w<PL to w~=PL, firm to very stiff		2.90	5	SS	8				Bentonite
4	Power Auger 171 mm O.D.;83 mm I.D.; Hollow Stem Auger				6	SS	13				
					7	SS	11				
5					8	SS	9				
					9	SS	18				Sand
6					10	SS	21				
					11	SS	24				
7					12	SS	29				
				69.90							
8		(CL) SILTY CLAY, trace sand, contains shale fragments; grey, (RESIDUAL SOIL); w~PL, hard		9.07 69.44	13	SS	71/ 0.23				Sand
		NOTES: 1. No representative groundwater level was recorded upon completion of the		9.53							
9											
		CONTINUED NEXT PAGE									
10											

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

DEPTH SCALE

1 : 50

GOLDER

LOGGED: AY

CHECKED: DP

PROJECT: 21453515

RECORD OF BOREHOLE: 21-63

SHEET 2 OF 2

LOCATION: N 4823119.81; E 614309.94

BORING DATE: May 31, 2022

DATUM: UTM NAD 83 (ZONE 17)

SPT/DCPT HAMMER: MASS, 64kg; DROP, 760mm

DRILL RIG: B-57 Truck Mount

HAMMER TYPE: AUTOMATIC

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80)	SHEAR STRENGTH Cu, kPa (nat V. +, rem V. ⊕, Q - ●, U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3})	WATER CONTENT PERCENT (Wp, W, Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%)
		--- CONTINUED FROM PREVIOUS PAGE ---											GR SA SI CL
10		borehole due to the addition of water for drilling. 2. Groundwater level measurements in the monitoring well: (screened from 6.1 m to 9.1 m) Date Depth (m) Elev. (m) XXX XXX XXX											
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

DEPTH SCALE

1 : 50

GOLDER

LOGGED: AY

CHECKED: DP

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT:

LOCATION: N 4823223.95; E 614388.91

RECORD OF BOREHOLE: 21-64

SHEET 1 OF 3

BORING DATE:

DRILL RIG:

DATUM: UTM NAD 83 (ZONE 17)

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80)	SHEAR STRENGTH Cu, kPa (nat V. + Q - ● / rem V. ⊕ U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3})	WATER CONTENT PERCENT (Wp W Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
0		GROUND SURFACE		79.89									
		ASPHALT (150 mm)		0.00									Sand
		(SM) SILTY SAND to sandy SILT; grey; moist, non-cohesive		0.15									
1													
2													
3				76.84									
		(ML) sandy SILT; grey; non-cohesive, moist, dense		3.05	1	SS	94						
4					2	SS	32						
5	Power Auger 171 mm O.D.,83 mm I.D., Hollow Stem Auger				3	SS	13						Bentonite
				74.63									
		(CL) SILTY CLAY, trace sand, trace gravel (TILL); grey; cohesive, w~PL, very stiff to hard		5.26	4	SS	20						
6					5	SS	16						
7					6	SS	23						
8					7	SS	23						
					8	SS	53						
9				70.90									
		(CL) SILTY CLAY, trace sand, some gravel, shale (RESIDUAL SOIL); grey; cohesive, w<PL, hard		8.99	9	SS	51						
10					10	SS							
		CONTINUED NEXT PAGE											

DEPTH SCALE

1 : 50

WSP GOLDER

LOGGED: MTI

CHECKED: AY

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT:

LOCATION: N 4823223.95; E 614388.91

RECORD OF BOREHOLE: 21-64

SHEET 2 OF 3

BORING DATE:

DRILL RIG:

DATUM: UTM NAD 83 (ZONE 17)

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m (20 40 60 80) / SHEAR STRENGTH Cu, kPa (nat V. +, rem V. ⊕, Q - ●, U - ○) (20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp, W, Wl) (10 20 30 40)	ADDITIONAL LAB. TESTING	GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
10		*--- CONTINUED FROM PREVIOUS PAGE ---*									
10	Power Auger	(CL) SILTY CLAY, trace sand, some gravel, shale (RESIDUAL SOIL); grey; cohesive, w<PL, hard			10	SS	78/ 0.28				Bentonite
11					11	SS	45				
				68.31	12	SS	52/ 0.05				
		Shale pieces inferred as Bedrock		11.63							
		END OF BOREHOLE Borehole cored from a depth of 11.63 m to 15.07 m For rock coring details refer to Record of Drillhole 21-64									
12											
13											
14											
15											
16											
17											
18											
19											
20											

DEPTH SCALE

1 : 50

WSP GOLDER

LOGGED: MTI

CHECKED: AY

GTA-BHS 005 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MIS.GDT 8/15/22

PROJECT:

RECORD OF DRILLHOLE: 21-64

SHEET 3 OF 3

LOCATION: N 4823223.95 ;E 614388.91

DRILLING DATE:

DATUM: UTM NAD 83 (ZONE 17)

INCLINATION: -90° AZIMUTH: ---

DRILL RIG:

DRILLING CONTRACTOR:

NOTE:
For abbreviations, symbols and descriptions refer to
LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	FLUSH RETURN	RECOVERY TOTAL CORE %	RECOVERY SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 0.25 m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	Jr	Ja	Jcon	WEATHERING INDEX	Diametral Point Load Index (MPa)	FEATURES	PIEZOMETER
		Continued from Record of Borehole 21-64		68.26															
12	Rotary Diamond Drill HQ3 Core	Moderately weathered to slightly weathered, thinly bedded, grey, fine grained, faintly porous, weak SHALE (Georgian Bay Formation) with medium strong to strong LIMESTONE interbeds		11.63	1							BD,PL,SM	1	2	16			Lost core	
												BD,UN,SM	2	2	20			BC	
												BD,PL,SM	1	2	16			BC	
												BD,UN,RO	3	2	25			Limestone	
												BD,PL,SM	1	2	16				
												CO,PL,SM	1	2	16				
13					2							CO,PL,SM	1	2	16			Limestone	
												BD,PL,SM	1	2	16				
												BD,UN,SM	2	2	20				
																		Limestone	
																		Screen	
																		Limestone	
14												BD,PL,	1	2	16			Limestone	
					3													Limestone	
												BD,UN,SM,PC, CL	1	4	12			Limestone	
												CO,PL,SM	1	2	16			Limestone	
												BD,UN,SM	2	2	20			Limestone	
												CO,UN,RO,PC, Go	1	4	12			Limestone	
15				64.82														Limestone Sand	
		END OF DRILLHOLE		15.07															
16		NOTES:																	
		1. Groundwater level at a depth of 7.62 m (Elev. 72.36 m) below ground surface upon completion of drilling.																	
17																			
18																			
19																			
20																			
21																			

DEPTH SCALE

1 : 50

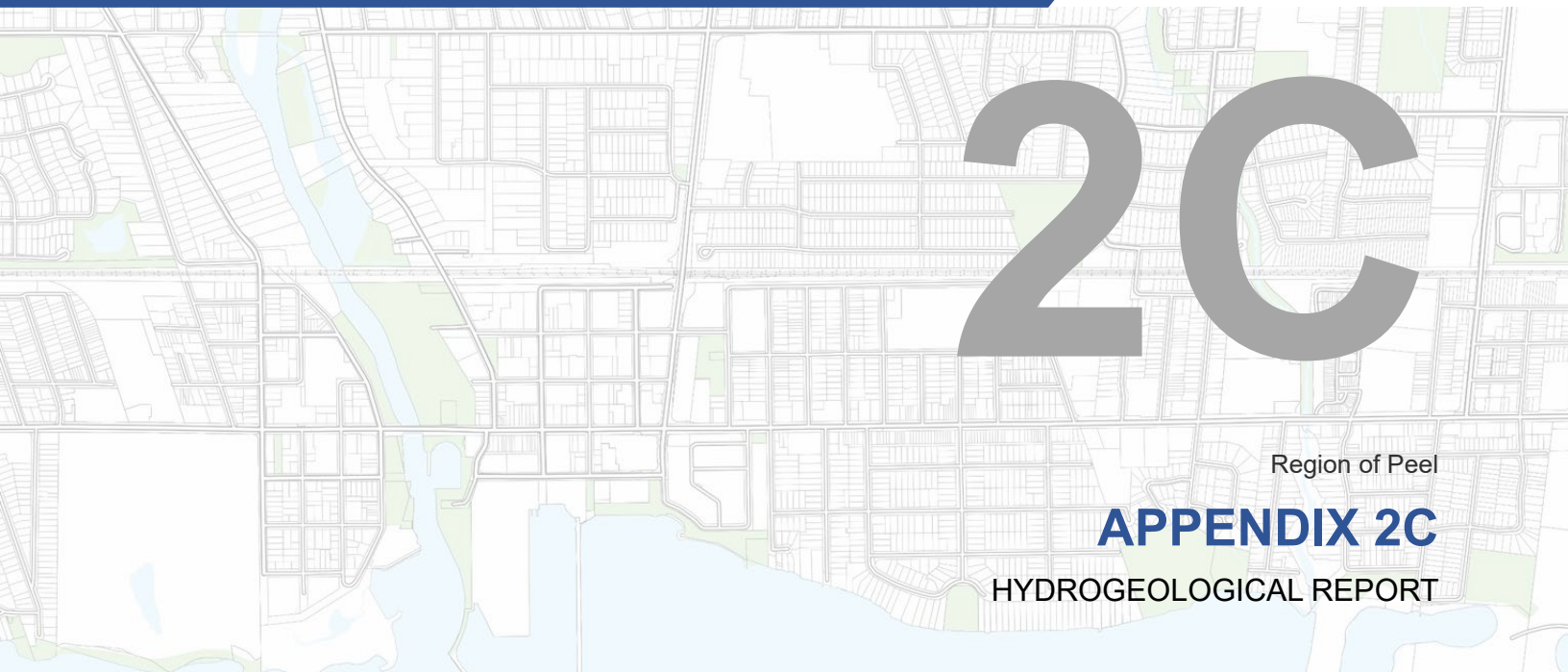
LOGGED: MTI

CHECKED: AY

GOLDER

GTA-RCK 046 R:\ONTARIO\SIM\CLIENTS\REGION_OF_PEEL\LAKESHORE_RD\02_DATA\GINT\LAKESHORE_RD.GPJ GAL-MISS.GDT 8/15/22

wsp.com



2C

Region of Peel

APPENDIX 2C

HYDROGEOLOGICAL REPORT

REPORT

Background Hydrogeological Report

Port Credit East Water and Wastewater Servicing Optimization Strategy
Schedule 'C' Municipal Class Environmental Assessment

Submitted to:

GM BluePlan Engineering Limited

330 Highway 7, Suite 402
Vaughan, Ontario L4K 4M3

Attn: Chris Campbell, MTP, MCIP, RPP, MRTPI
Infrastructure Planning, Partner

Submitted by:

WSP Canada Inc.
6925 Century Avenue, Suite #100, Mississauga, Ontario, L5N 7K2, Canada

+1 905 567 4444

19129019

October 4, 2023

Distribution List

e-copy - GM BluePlan Engineering Limited

e-copy - WSP Canada Inc.

Table of Contents

1.0 INTRODUCTION 1

2.0 PURPOSE AND SCOPE OF STUDY 1

3.0 BACKGROUND INFORMATION AND AVAILABLE DATA 1

4.0 DESCRIPTION OF HYDROGEOLOGIC SETTING 1

4.1 Physiography, Topography, and Drainage 1

4.2 Regional Hydrogeology 2

4.3 Groundwater Resources and Conditions 3

5.0 POTENTIAL IMPACTS 4

6.0 LIMITATIONS 5

7.0 CLOSURE 6

8.0 REFERENCES 7

TABLES

Table 1: Water Well Record Summary (500 m radius) 3

FIGURES

Figure 1: Study Site

Figure 2: Topography and Drainage

Figure 3: Surface Geology

Figure 4: Ontario Geotechnical Boreholes

Figure 5: MECP Water Well Records and PTTW

APPENDICES

APPENDIX A

Important Information and Limitations of This Report

APPENDIX B

MECP Well Record

1.0 INTRODUCTION

WSP Canada Inc. (WSP) has been retained by GM BluePlan Engineering Limited (GMBP) on behalf of the Region of Peel (the Region) to conduct hydrogeological studies as part of the Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule 'C' Class EA (the Project) in the City of Mississauga, Region of Peel, Ontario. The purpose of the Project is to investigate alternative water and wastewater strategies for the Rosemere, Hiawatha, and Elmwood sewage pumping station (SPS) servicing areas, investigate alternative routes for the future Lakeshore sub-transmission watermain east of the credit river and to develop an integrated servicing strategy that supports existing servicing needs and projected growth.

As part of the evaluation and selection of alternatives for the Project, a desktop assessment is required to provide a summary of subsurface conditions within the study area (as defined by GMBP). The study area is shown on Figure 1 and is generally limited by Front Street in the south, Veronica Drive and just east of Forest Avenue in the west, just south of Seneca Avenue to the north, and Lake Ontario to the east in the City of Mississauga.

2.0 PURPOSE AND SCOPE OF STUDY

The purpose of this desktop hydrogeological investigation is to develop a preliminary understanding baseline of groundwater conditions and to identify, at the earliest stages of the process, potential impacts and develop mitigation measures to address these potential impacts.

The scope of work for the Background Hydrogeological Report is as follows:

- Desktop review of available published information sources to characterize the hydrogeological conditions at the site and vicinity, including geological and topographic mapping, aerial photography, the Ministry of Environment, Conservation and Parks (MECP) Water Well Record database, and any site-specific reports provided to WSP.
- Preliminary identification of potential impacts and mitigation measures.

3.0 BACKGROUND INFORMATION AND AVAILABLE DATA

For the purpose of this desktop study, information about the subsurface conditions at the study area was obtained from the following sources:

- Chapman, L.J., and Putnam, D.F., 2007, *"The Physiography of Southern Ontario"*; Ontario Geological Survey.
- Ontario Geological Survey 2010, "*Surficial Geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release – Data 128 – Revised*".
- Golder Associates Ltd., December 18, 2015. "Geotechnical and Hydrogeological Investigation, Proposed Sanitary Sewer Replacement Various Streets in Mississauga". Project 15-2300, Mississauga, Ontario (Golder 2015).

4.0 DESCRIPTION OF HYDROGEOLOGIC SETTING

4.1 Physiography, Topography, and Drainage

The project area is located within the Iroquois Plain physiographic region, as delineated in The Physiography of Southern Ontario (Chapman and Putman 1984). The glacial Iroquois Plain stretches along the northern shoreline of Lake Ontario, extending from the Niagara Escarpment in the west to the Scarborough Bluffs in the east, and

the shallow soil conditions consist of glaciolacustrine sediments deposited in Lake Iroquois. These sediments primarily consist of sand, silt, and gravel, with a shallow cover of glacial till remaining over the bedrock.

The bedrock underlying the Greater Toronto Area consists of three shale dominated units: from oldest to youngest, they are the Blue Mountain, Georgian Bay, and Queenston Formations (OGS 1991). These bedrock formations are essentially horizontally bedded, although on a regional scale, they dip gently to the south. The Georgian Bay Formation which underlies the study area consists mainly of blue-grey shale, containing siltstone, sandstone, and limestone interbeds. Although regional geology mapping indicates that the site is underlain by the Georgian Bay Formation, the site is located near the boundary with the Queenston Formation and some areas of the site may be underlain by the Queenston Formation. The shale of the Queenston formation generally contains limestone, dolostone, and siltstone interbeds.

Based on the surficial geology mapping, the near surface soils within the study area consist of interbedded flow till, rainout deposits and silt and clay covering the northeastern portion of the study area as shown on Figure 3. The central and southern portion of the study area consist of overlapping foreshore basinal and modern alluvial deposits. Foreshore basinal (lacustrine) deposits consist of sand, gravel, and minor silt and clay while modern alluvial deposits consist of clay, silt, sand and gravel, based on Chapman and Putnam (1984).

The lacustrine sediments (primarily sand deposits) have the potential to yield groundwater. Modern alluvium is mapped along the Credit River, which generally follows a buried bedrock valley to Lake Ontario, and groundwater discharge is expected within the coarser stream deposits (Davies and Holysh 2007). The underlying Georgian Bay Formation is considered to be an aquitard (Davies and Holysh 2007; Singer, Cheng, and Scafe 2003). The inferred direction of groundwater flow through the project area is to the east and southeast.

4.2 Regional Hydrogeology

Based on the Credit River Watershed and Region of Peel Natural Areas Inventory (NAI) Report dated October 2011, the study area lies within the Lower Credit River Watershed. There are two regionally significant groundwater aquifers within the Credit River Watershed. The Guelph/Amabel Formation found west of the Niagara Escarpment and buried bedrock valleys consisting of coarse-grained glacial overburden deposits, found throughout the watershed (Credit Valley Conservation 2007b, 2008). Some of these buried valleys are known to contain large volumes of groundwater, including aquifers in Peel Regions (Credit Valley Conservation 2007b), that municipalities tap to supply municipal water. However, no groundwater supply aquifers are present within the study area.

Based on the Regional Groundwater Mapping Study (CLOCA 2004) and surficial geology mapping (Ontario Geological Survey 2010), the study area is underlain by thin surficial deposits that lie on top of Halton Aquitard (Halton Till) deposits of varying thickness. Halton Till deposits pinches out moving closer to the Lake Ontario shoreline. Below the Halton Till or thin recent surficial deposits lie bedrock (Georgian Bay Formation).

Precipitation falling across the area contributes to recharge of the overburden and bedrock aquifer systems although the generally low permeability of the soils limits infiltration rates. The majority of groundwater recharge within the study area is expected through the surface water creeks in the southwest and conservation reserve or wooded area which migrate laterally and discharge southeastward to Lake Ontario. A small component of the recharge will migrate to recharge deeper regional overburden and bedrock units. However, away from the Credit River located along the western boundary of the study area, the remainder of the site is generally inferred to be areas of nominal groundwater recharge. Given the predominance of fine textured glacial till soils in the area, the quantity of local recharge and subsequent base flow contributions to Credit River are inferred to be negligible. The

proximity to Lake Ontario limits the contribution of groundwater recharge to baseflow to the Credit River system and wetland features.

Areas of groundwater discharge were generally inferred to be located in the vicinity of Credit River in the southwest. Based on the on-line mapping available from the Ontario Ministry of Natural Resources and Forestry (MNRF) Ontario GeoHub (https://geohub.lio.gov.on.ca/), no other watercourses are located in the vicinity of the study area aside from the adjacent Credit River and two Creeks in the southwest.

Regional groundwater flow direction is primarily towards Lake Ontario although more variable flow directions may occur within the shallow overburden where groundwater flow is likely to be toward the Credit River and elsewhere where local groundwater flow directions may be influenced by small watercourses and anthropogenic features.

4.3 Groundwater Resources and Conditions

Based on a review and plot of the MECP well records, water well records were identified within the study area (including a 500 m buffer around the study area). A tabular summary of the well records in the vicinity of the study area is presented in Appendix B following the text of this report. The area is provided with full municipal services and groundwater is not expected to be used for potable water supply.

A summary of the well record information within 500 m of the study area is presented below in Table 1.

Table 1: Water Well Record Summary (500 m radius)

Well Record Information	Number of Wells
Total Recorded Wells1	300
Drilling Method	
Bored/Dug/Driven	121
Cable Tool, Rotary Drilling	33
Other/Not Specified	122
Use	
Public Supply	0
Municipal Supply	1
Domestic Supply	0
Commercial	0
Industrial	0
Agricultural (Irrigation, Stock)	0
Monitoring Wells	184
Not Used/Abandoned	25
Dewatering	1
Test hole	16
Not Specified	73
Data	
Total Recorded Wells1	300
Depth <10 m	158
Depth >10 m and <30 m	43
Depth >30 m	4

Well Record Information	Number of Wells
Depth Not Specified	95
Bedrock Aquifer	52
Overburden Aquifer	144
Static water Level <= 4 mbgs[2]	7
Flowing Wells	0
High Volume Well >100 L/min Test Rate	0

Notes:

1. It is common for shallow dug wells and well points to be not recorded.
2. m bgs = meters below ground surface.

Based on the well record information (Table B-1, Appendix B), two primary aquifers are inferred to be present in the area of the Site: i) shallow unconfined or partly confined aquifer, or aquifers and; ii) the deep bedrock aquifer. Based on the well record information, approximate depth to bedrock is in the range of 7.0 to 14.9 m below ground surface (bgs). The area is municipally serviced, and private or domestic water wells are not found in the well records. Most of the wells found in the well records are monitoring wells constructed between 1994 to 2020.

Based on MECP permits to take water records within the study area (Table B-2, Appendix B), 16 permits were issued for construction dewatering activities and groundwater remediation, one is active now. Two permits were issued for surface water taking from Credit River. No Environmental Activity and Sector Registry (EASR) record was found within the study area.

5.0 POTENTIAL IMPACTS

Based on the hydrogeological setting and groundwater conditions for the study area as described in Section 4.2, the Site is located in areas with shallow groundwater levels, with groundwater level in the range of approximately 1.2 m bgs to 1.7 m bgs, based on MECP well records. The shallow groundwater levels beneath the study area appear to be controlled by overburden sand, silt and gravel units which are unconfined aquifers generally encountered at elevations ranging from approximately 75.9 m above sea level (asl) to 81.1 m asl.

Based on the above information, excavations to a depth of more than 2 m bgs at the study area are expected to encounter groundwater. As part of the Geotechnical Investigation conducted in the vicinity of the study area by Golder (Golder 2015), the reported hydraulic conductivity calculated by using Hazen method for encountered silty and sandy soils ranged from of 3.6×10^{-7} to 1.0×10^{-5} m/s. The hydraulic conductivity of the silty and sandy soils of the overburden could allow for substantial groundwater inflow to an excavation, which contacts the aquifer materials. Under this assumption, excavations to a depth of >1 to 2 m bgs may encounter groundwater inflow and dewatering of the aquifer below the excavation will be required to ensure excavation stability. For permanent installation of services or foundations that are below the water table proper precautions should be taken to avoid uplift, groundwater channelization or instability. If foundation drainage systems (active or passive) are proposed, the potential groundwater quantities diverted through them should be assessed.

There are two surface water features (Kenollie Creek and Mary Fix Creek) in the study area. Moreover, the Credit River and Lake Ontario border the study area, and the Credit Valley Conservation (CVC) regulation limits around these waterbodies overlap the study area (Figure 2). Any development proposed within these features, or their regulation limits will require authorization or a permit from the CVC.

According to Credit Valley-Toronto and Region-Central Lake Ontario (CTC) Source Protection Plan, portions of the study area lie within Lorne Park and Lakeview Intake Protection Zones 2 (IPZ-2) with a vulnerability score of 4.5.

No domestic groundwater wells were identified within the study area. The area is provided with full municipal services and groundwater is not expected to be used for potable water supply and therefore no impacts to groundwater users are expected.

Due to the specific hydrogeological setting of the study areas, detailed site-specific and development specific hydrogeological investigations must be carried out to sufficient depths that explore the relationship between the proposed development and local groundwater and soil conditions. In particular, the impact of groundwater and potential proximity of the silt, sand and gravel aquifers must be addressed to ensure that the development does not result in temporary (i.e., construction) or long-term unstable conditions due the proposed earthworks or built structures.

Should the proposed development require temporary or permanent dewatering and/or groundwater or surface water diversion, the site-specific investigations will need to assess the impacts of the dewatering and/or diversion on the local natural and built environments. The investigations should include a determination of baseline, pre-construction conditions and provide proposed mitigation strategies to address potential impacts. These investigations should also address what permitting may be required both for the water taking and for the water disposal/discharge. For construction dewatering projects, the MECP requires that water takings greater than 50 m^3/day and less than 400 m^3/day be registered online through the Environmental Activity and Sector Registry (EASR) system. For construction dewatering of more than 400 m^3/day and for long-term discharges of more than 50 m^3/day, a Permit to Take Water (PTTW) from the MECP is required. Depending on the receptors, water disposal/discharge may require permitting from the appropriate agencies.

6.0 LIMITATIONS

This report has been prepared for the exclusive use of GMBP and the Region for specific application the Project and the Class EA investigations of alternative water and wastewater strategies for the Rosemere, Hiawatha, and Elmwood sewage pumping station (SPS) servicing areas and investigate alternative routes for the future Lakeshore sub-transmission watermain east of the credit river, in Mississauga, Ontario. The findings presented in this report were prepared in accordance with generally accepted hydrogeological practice at the time of this study. It is stressed that the information in this report is provided for planning purposes only. This report is not intended for preliminary or detailed design or construction purposes.

The professional services addressed in this report include only the hydrogeological aspects of the subsurface conditions at these sites. The presence or implication(s) of possible surface and/or subsurface contamination resulting from previous activities or uses of the site and/or resulting from the introduction onto the site of materials from off-site sources are outside the scope of this desktop study and have not been addressed.

7.0 CLOSURE

This report is intended to summarise available data on subsurface soil and groundwater conditions for the Study Areas as identified on the Key Plan, Figure 1, attached. The data contained in this report was obtained from published geological studies, maps, and existing subsurface investigation report by Golder (Golder 2015).

We trust this report provides sufficient information for your requirements. If you have any questions regarding the contents of this report or require additional information, please do not hesitate to contact this office.

WSP Canada Inc.

Syed Ali, PhD, PGeo
Hydrogeologist

John Piersol, MSc, PGeo
Associate, Senior Hydrogeologist

SAA/JP/lb/ljv/wlw

8.0 REFERENCES

Chapman, L.J. and Putnam, D.F. 1984. The Physiography of Southern Ontario, Ontario Geological Survey, Special Volume 2, Third Edition. Accompanied by Map P.2715, Scale 1:600,000.

Credit River Watershed and Region of Peel; Natural Areas Inventory (NAI) – Volume 1, September 2011.

Credit Valley Conservation (CVC). 2007a. Credit River Water Management Guidelines. Mississauga, ON.

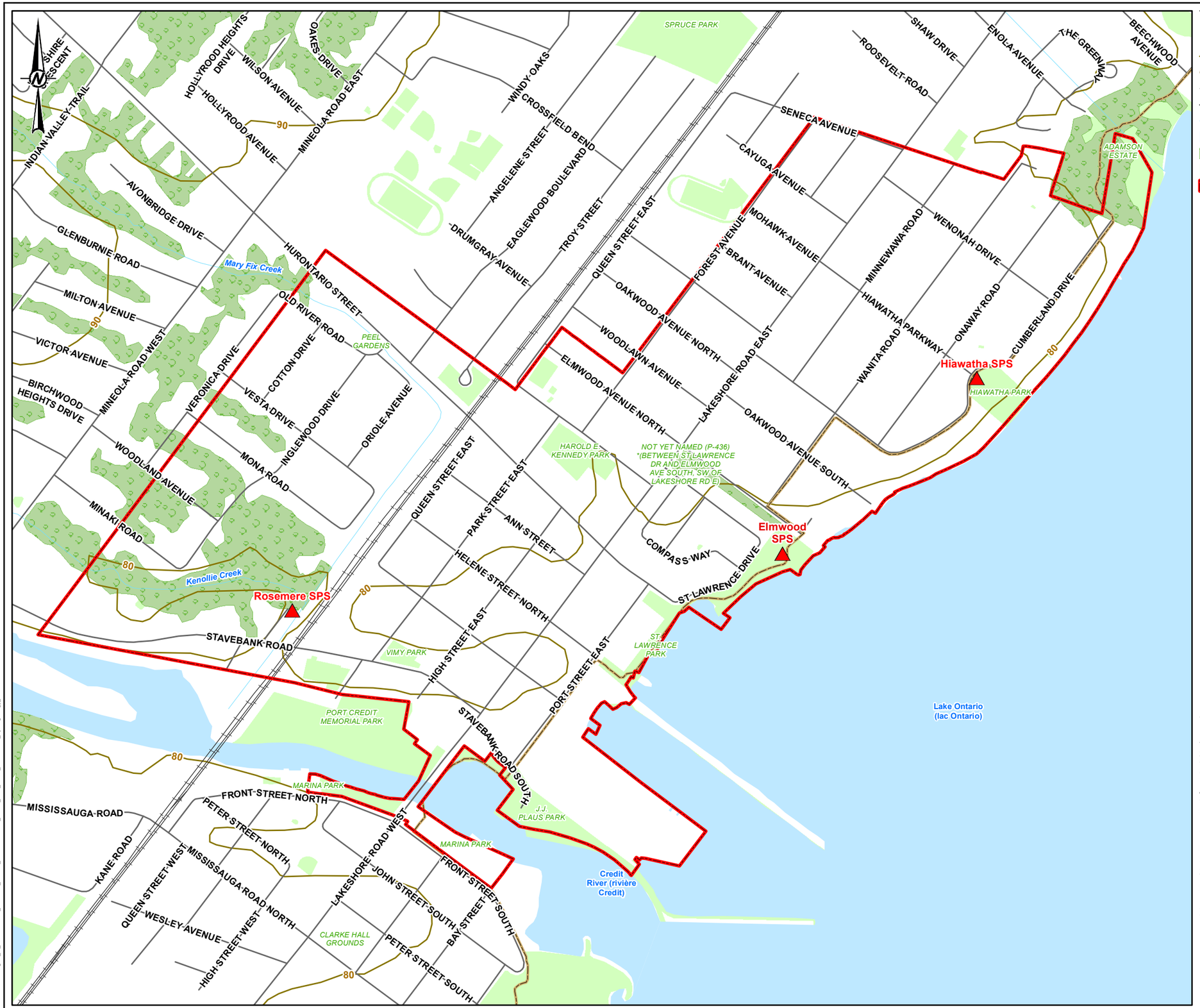
Credit Valley Conservation (CVC). 2007b. Credit River Water Management Strategy Update. Mississauga, ON.

Credit Valley-Toronto and Region-Central Lake Ontario (CTC) Source Protection Region 2014.

Davies, S. and Holysh, S. 2007. Groundwater Resources of the Credit River watershed. Ontario Geological Survey, Groundwater Resources Study 6, 132p.

Singer, S.N., Cheng, C.K. and Scafe, M.G. 2003. Hydrogeology of Southern Ontario – Second Edition. 188 p.

FIGURES



LEGEND

- SPS STATION
- TOPOGRAPHY CONTOUR (5 M)
- TRAIL
- RAILWAY
- ROAD
- WATERCOURSE
- WATERBODY
- WOODED AREA
- PARK
- STUDY AREA

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TITLE
STUDY SITE

CONSULTANT
wsp

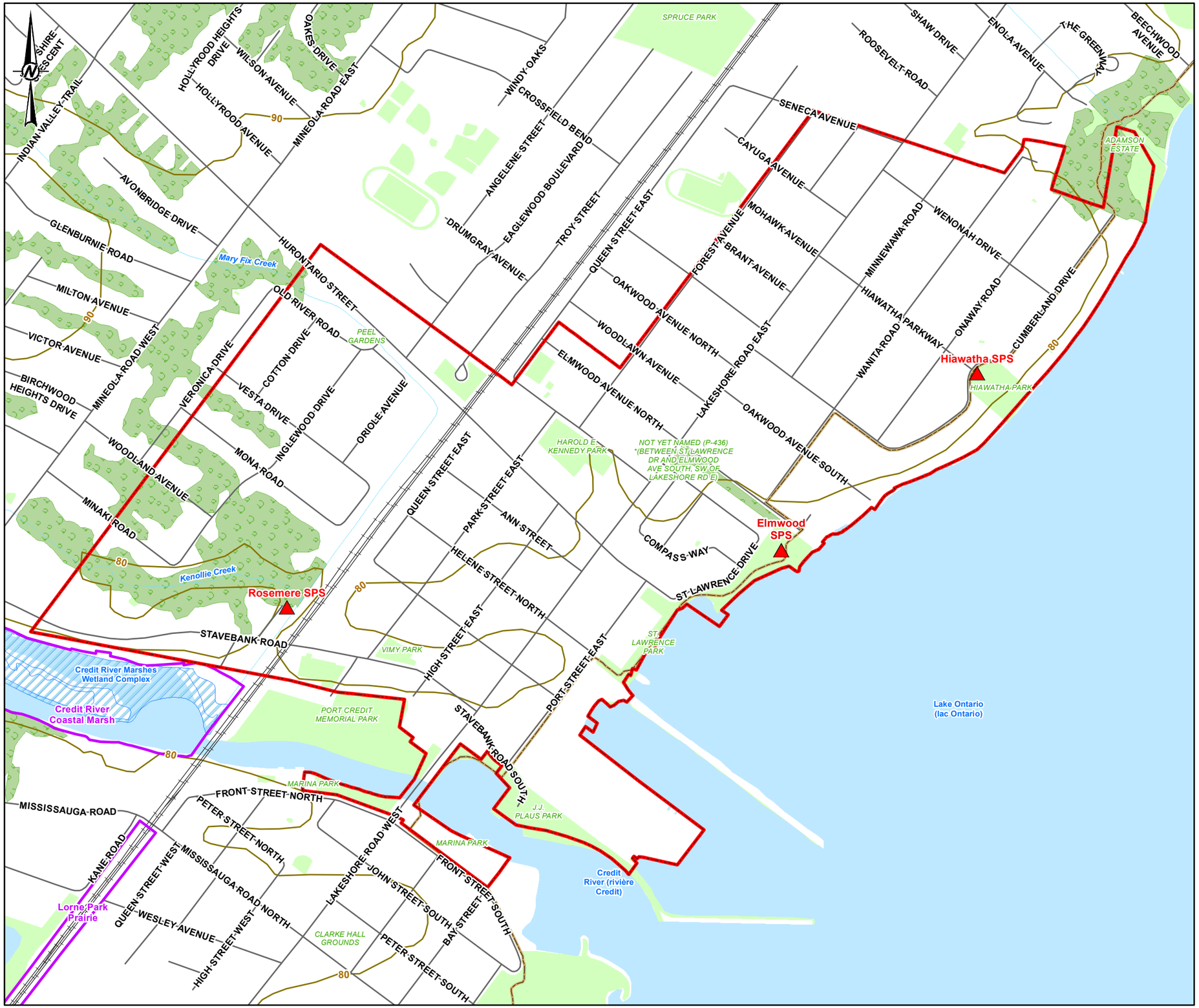
YYYY-MM-DD	2022-08-18
DESIGNED	PR
PREPARED	PR/MG
REVIEWED	SA
APPROVED	DH

PROJECT NO.	CONTROL	REV.	FIGURE
1912019	0010	0	1

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\A1912019_GMBP_SPS_EA\40_PROD\0010_Hydrogeology_PortCreditEast1912019-0010-CH-0001.mxd PRINTED ON: 2023-10-04 AT: 4:30:18 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm



LEGEND

- SPS STATION
- TOPOGRAPHY CONTOUR (5 M)
- TRAIL
- RAILWAY
- ROAD
- WATERCOURSE
- WATERBODY
- PROVINCIALLY SIGNIFICANT WETLAND
- WOODED AREA
- PARK
- ANSI - LIFE SCIENCE
- STUDY AREA

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TITLE
TOPOGRAPHY AND DRAINAGE

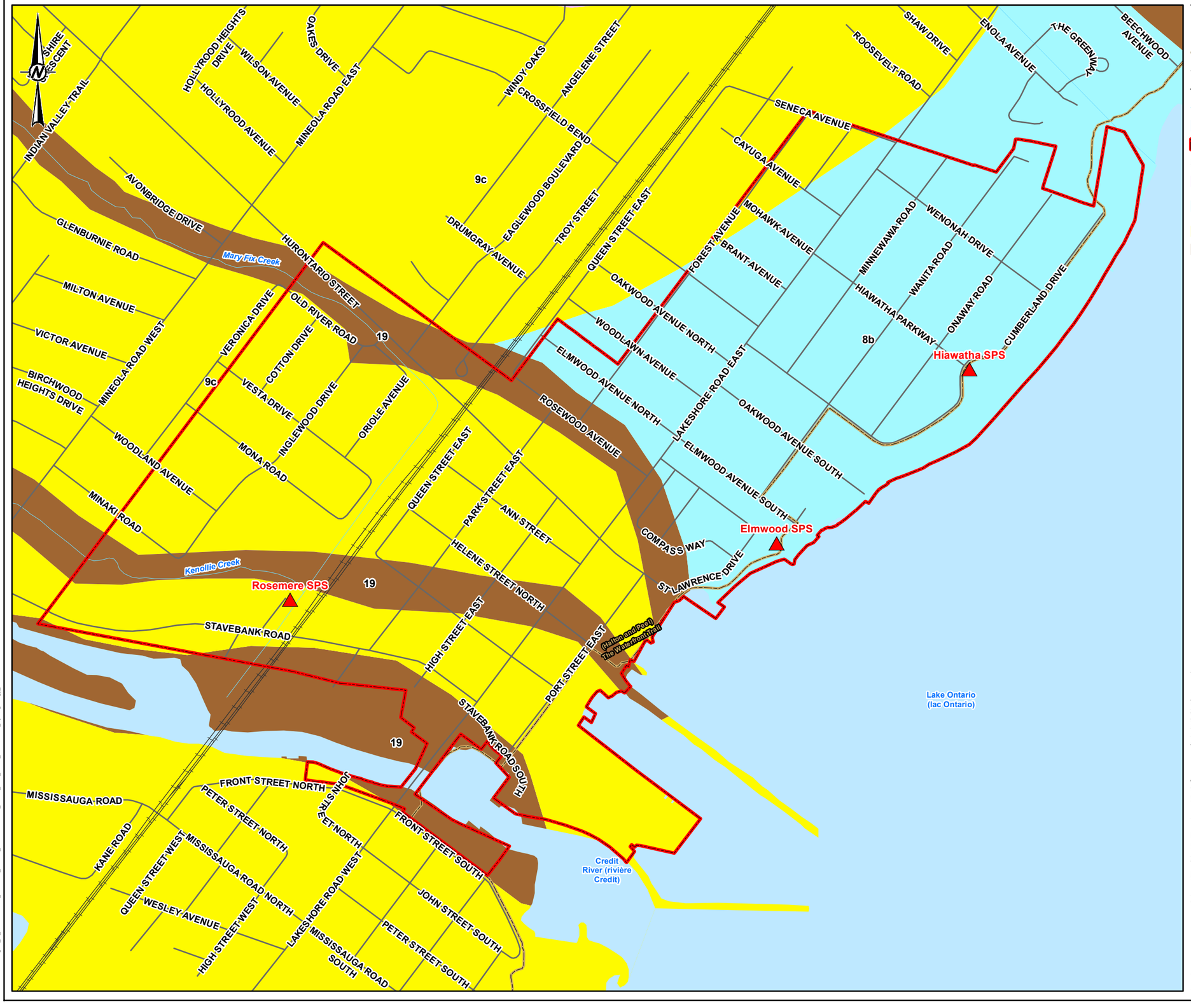
CONSULTANT
wsp

YYYY-MM-DD	2022-08-18
DESIGNED	PR
PREPARED	PR/MG
REVIEWED	SA
APPROVED	DH

PROJECT NO.	CONTROL	REV.	FIGURE
1912019	0010	0	2

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\A1912019_GMBP_SPS_EA\40_PROD\0010_Hydrogeology_Port\CreditEast1912019-0010-CH-0002.mxd PRINTED ON: 2023-10-04 AT: 4:31:17 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- SPS STATION
- TRAIL
- RAILWAY
- ROAD
- WATERCOURSE
- WATERBODY
- STUDY AREA

SURFICIAL GEOLOGY

- 3: PALEOZOIC BEDROCK
- 8B: INTERBEDDED FLOW TILL, RAINOUT DEPOSITS AND SILT AND CLAY
- 9C: FORESHORE-BASINAL DEPOSITS
- 19: MODERN ALLUVIAL DEPOSITS

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3.SURFICIAL GEOLOGY - MINISTRY OF NORTHERN DEVELOPMENT AND MINES, 1:250 000 SCALE SURFICIAL GEOLOGY OF ONTARIO; ONTARIO GEOLOGICAL SURVEY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TITLE
SURFACE GEOLOGY

CONSULTANT
wsp

YYYY-MM-DD	2022-08-18
DESIGNED	PR
PREPARED	PR/MG
REVIEWED	SA
APPROVED	DH

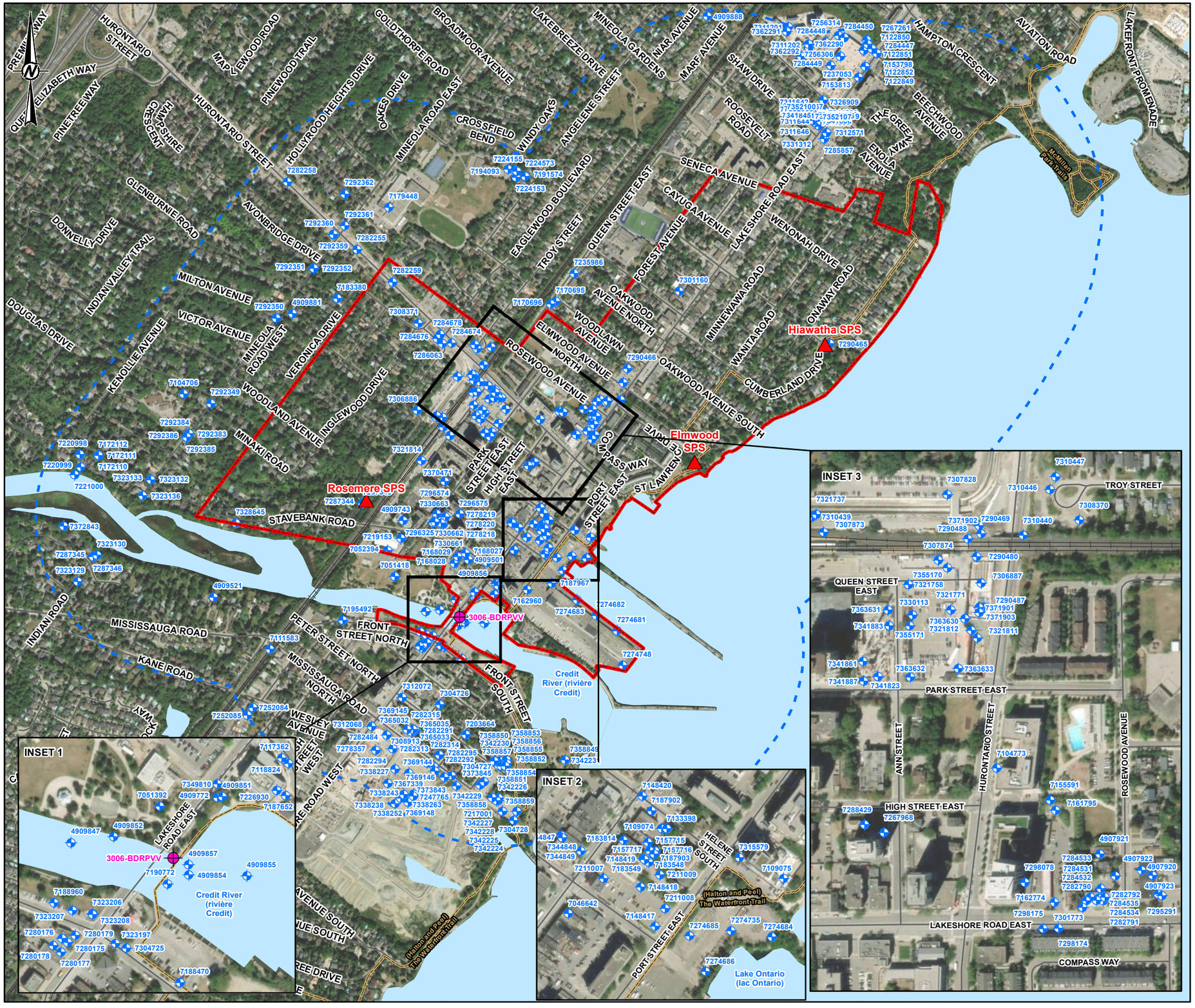
PROJECT NO.	CONTROL	REV.	FIGURE
1912019	0010	0	3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\1912019_GMBP_SPS_EA\40_PROD\0010_Hydrogeology_PortCreekEast\1912019-0010-CH-0003.mxd PRINTED ON: 2023-10-04 AT: 4:32:02 PM

HOLLYROOD HEIGHTS DRIVE
WILSON AVENUE
OAKES DRIVE
WINDY OAKS
CROSSFIELD BEND
HOLLYROOD AVENUE
MINEOLA ROAD EAST
INDIAN VALLEY TRAIL
ANGELENE STREET
EAGLEWOOD BOULEVARD
TROY STREET
QUEEN STREET EAST
IROQUOIS AVENUE
ROOSEVELT ROAD
SHAW DRIVE
ENOLA AVENUE
THE GREENWAY
BEECHWOOD AVENUE
LAKESHORE ROAD EAST
AVONBRIDGE DRIVE
GLENBURNIE ROAD
Mary Fix Creek
DRUMGRAY AVENUE
HURONTARIO STREET
MILTON AVENUE
OLD RIVER ROAD
VICTOR AVENUE
MINEOLA ROAD WEST
VERONICA DRIVE
COTTON DRIVE
BIRCHWOOD HEIGHTS DRIVE
VESTA DRIVE
INGLEWOOD DRIVE
ORIOLE AVENUE
WOODLAND AVENUE
MONA ROAD
MINAKI ROAD
Kenollie Creek
Rosemere SPS
STAVEBANK ROAD
ELMWOOD AVENUE NORTH
WOODLAWN AVENUE
FOREST AVENUE
MINNEWAWA ROAD
WANITA ROAD
OAKWOOD AVENUE SOUTH
ELMWOOD AVENUE SOUTH
ROSEWOOD AVENUE
ST LAWRENCE DRIVE
COMPASS WAY
Hiawatha SPS
CUMBERLAND DRIVE
Elmwood SPS
Trip Watermain (Pulsum and Peel)
Lake Ontario (lac Ontario)
Credit River (rivière Credit)
MISSISSAUGA ROAD
FRONT STREET NORTH
PETER STREET NORTH
JOHN STREET NORTH
FRONT STREET SOUTH
KANE ROAD
QUEEN STREET WEST
MISSISSAUGA ROAD NORTH
WESLEY AVENUE
HIGH STREET WEST
LAKESHORE ROAD WEST
MISSISSAUGA ROAD SOUTH
PETER STREET SOUTH
JOHN STREET SOUTH
641191
641192
641180
641193
641147
640904
641148
641149
640905
641150
641161
641151
640906
640887
641155
641160
641154
641153
641159
641157
640897
640725
640895
654127
654126
641141
640724
640893
640892
640723
640891
640889
640722
640888
640890
641143
641142
641146
641145
641144
641030
654125
641139
640927
640926
646202
646204
649442
640925
639272
640928
646201
641140
640918
640919
646200
649424
640914
646199
640920
641138
640913
639274
641137
640912
640911
639275
641135
640922
640923
640910
639276
641136
639269
640933
640627
639270
640909
640934
640932
649422
640869
646196
640908
640873
640868
646191
651629
639271
640871
640872
639268
640867
642137
642138
642139
646186
642142
646189
642141
646188
640866
649461
649459
649460
649458
649457
649456
649455
649454
649451
649453
646208
649452
649450
649449
646209
646207
640915
640931
646206
649447
649446
640916
640930
639273
649443
649445
640917
640929
640924
649444
646205
646203
646198
646197
646195
646193
646192
646194
646190
646187
646185
646184
646183
646182
646181
646180
646179
646178
646177
646176
646175
646174
646173
646172
646171
646170
646169
646168
646167
646166
646165
646164
646163
646162
646161
646160
646159
646158
646157
646156
646155
646154
646153
646152
646151
646150
646149
646148
646147
646146



LEGEND

- SPS STATION
- MECP PERMIT TO TAKE WATER (PTTW) RECORD
- MECP WATER WELL RECORD
- TRAIL
- RAILWAY
- ROAD
- WATERBODY
- STUDY AREA BUFFER (500 m)
- STUDY AREA

0 100 200 300 400 500

1:12,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. WATER WELL LOCATIONS OBTAINED FROM THE MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS (MECP). WATER WELL INFORMATION SYSTEM (WWIS). DATA PUBLISHED APRIL, 2020.
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

TITLE
MECP WATER WELL RECORDS AND PTTW

CONSULTANT

wsp

YYYY-MM-DD	2022-08-18
DESIGNED	PR
PREPARED	PR/MG
REVIEWED	SA
APPROVED	DH

PROJECT NO.	CONTROL	REV.	FIGURE
1912019	0010	0	5

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\09_PRO\1912019_GMBP_SPS_EA\40_PROD\0010_Hydrogeology_PortCreekEast\1912019-0010-CH-0005.mxd PRINTED ON: 2023-10-04 AT: 4:34:38 PM

APPENDIX A

Important Information and Limitations of This Report

IMPORTANT INFORMATION AND LIMITATIONS OF THIS REPORT

Standard of Care: WSP Canada Inc., (WSP) has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering and science professions currently practising under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty, expressed or implied is made.

Basis and Use of the Report: This report has been prepared for the specific site, design objective, development and purpose described to WSP by the Client. The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location. Any change of site conditions, purpose, development plans or if the project is not initiated within eighteen months of the date of the report may alter the validity of the report. WSP cannot be responsible for use of this report, or portions thereof, unless WSP is requested to review and, if necessary, revise the report.

The information, recommendations and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without WSP's express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the client, WSP may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to WSP. The report, all plans, data, drawings and other documents as well as all electronic media prepared by WSP are considered its professional work product and shall remain the copyright property of WSP, who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permission of WSP. The Client acknowledges that electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client cannot rely upon the electronic media versions of WSP's report or other work products.

The report is of a summary nature and is not intended to stand alone without reference to the instructions given to WSP by the Client, communications between WSP and the Client, and to any other reports prepared by WSP for the Client relative to the specific site described in the report. In order to properly understand the suggestions, recommendations and opinions expressed in this report, reference must be made to the whole of the report. WSP cannot be responsible for use of portions of the report without reference to the entire report.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project. The extent and detail of investigations, including the number of test holes, necessary to determine all of the relevant conditions which may affect construction costs would normally be greater than has been carried out for design purposes. Contractors bidding on, or undertaking the work, should rely on their own investigations, as well as their own interpretations of the factual data presented in the report, as to how subsurface conditions may affect their work, including but not limited to proposed construction techniques, schedule, safety and equipment capabilities.

Soil, Rock and Groundwater Conditions: Classification and identification of soils, rocks, and geologic units have been based on commonly accepted methods employed in the practice of geotechnical engineering and related disciplines. Classification and identification of the type and condition of these materials or units involves judgment, and boundaries between different soil, rock or geologic types or units may be transitional rather than abrupt. Accordingly, WSP does not warrant or guarantee the exactness of the descriptions.

Special risks occur whenever engineering or related disciplines are applied to identify subsurface conditions and even a comprehensive investigation, sampling and testing program may fail to detect all or certain subsurface conditions. The environmental, geologic, geotechnical, geochemical and hydrogeologic conditions that WSP interprets to exist between and beyond sampling points may differ from those that actually exist. In addition to soil variability, fill of variable physical and chemical composition can be present over portions of the site or on adjacent properties. **The professional services retained for this project include only the geotechnical aspects of the subsurface conditions at the site, unless otherwise specifically stated and identified in the report.** The presence or implication(s) of possible surface and/or subsurface contamination resulting from previous activities or uses of the site and/or resulting from the introduction onto the site of materials from off-site sources are outside the terms of reference for this project and have not been investigated or addressed.

Soil and groundwater conditions shown in the factual data and described in the report are the observed conditions at the time of their determination or measurement. Unless otherwise noted, those conditions form the basis of the recommendations in the report. Groundwater conditions may vary between and beyond reported locations and can be affected by annual, seasonal and meteorological conditions. The condition of the soil, rock and groundwater may be significantly altered by construction activities (traffic, excavation, groundwater level lowering, pile driving, blasting, etc.) on the site or on adjacent sites. Excavation may expose the soils to changes due to wetting, drying or frost. Unless otherwise indicated the soil must be protected from these changes during construction.

Sample Disposal: WSP will dispose of all uncontaminated soil and/or rock samples 90 days following issue of this report or, upon written request of the Client, will store uncontaminated samples and materials at the Client's expense. In the event that actual contaminated soils, fills or groundwater are encountered or are inferred to be present, all contaminated samples shall remain the property and responsibility of the Client for proper disposal.

Follow-Up and Construction Services: All details of the design were not known at the time of submission of WSP's report. WSP should be retained to review the final design, project plans and documents prior to construction, to confirm that they are consistent with the intent of WSP's report.

During construction, WSP should be retained to perform sufficient and timely observations of encountered conditions to confirm and document that the subsurface conditions do not materially differ from those interpreted conditions considered in the preparation of WSP's report and to confirm and document that construction activities do not adversely affect the suggestions, recommendations and opinions contained in WSP's report. Adequate field review, observation and testing during construction are necessary for WSP to be able to provide letters of assurance, in accordance with the requirements of many regulatory authorities. In cases where this recommendation is not followed, WSP's responsibility is limited to interpreting accurately the information encountered at the borehole locations, at the time of their initial determination or measurement during the preparation of the Report.

Changed Conditions and Drainage: Where conditions encountered at the site differ significantly from those anticipated in this report, either due to natural variability of subsurface conditions or construction activities, it is a condition of this report that WSP be notified of any changes and be provided with an opportunity to review or revise the recommendations within this report. Recognition of changed soil and rock conditions requires experience and it is recommended that WSP be employed to visit the site with sufficient frequency to detect if conditions have changed significantly.

Drainage of subsurface water is commonly required either for temporary or permanent installations for the project. Improper design or construction of drainage or dewatering can have serious consequences. WSP takes no responsibility for the effects of drainage unless specifically involved in the detailed design and construction monitoring of the system.

APPENDIX B

MECP Well Record

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DETAILS								LITHOLOGY					
						WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
10322479	4907920	4823640	614631.0002	10/7/1994 12:00:00 AM	80.2	5.8	NA	NA	0	Overburden	FRESH	Observation Wells	Not Used	BROWN	18	TILL	SILT	DENSE	5.5
														BROWN	1	SAND	GRAVEL	DENSE	5.8
10322480	4907921	4823609.999	614580	1994-10-07 0:00	79.9	7	NA	NA	0	Overburden	FRESH	Observation Wells	Not Used	BROWN	7	TILL	SILT	DENSE	2.1
														GREY	8	SILT	DENSE	NA	4.6
														GREY	8	SAND	DENSE	NA	7.0
10322481	4907922	4823633.999	614620	10/7/1994 12:00:00 AM	80.1	4.3	NA	NA	0	Overburden	FRESH	Observation Wells	Not Used	BROWN	2	TILL	CLAY	DENSE	0.6
														BROWN	10	TILL	SILT	DENSE	3.7
														GREY	2	TILL	SILT	DENSE	4.3
10322482	4907923	4823633	614650.0003	10/7/1994 12:00:00 AM	80.3	7	NA	NA	0	Overburden	FRESH	Observation Wells	Not Used	BROWN	14	TILL	SILT	DENSE	4.3
														GREY	9	SAND	GRAVEL	DENSE	7.0
11177129	4909501	4823140	614219.9997	6/14/2004 12:00:00 AM	80.1	6	5	PLASTIC	0	Overburden	FRESH	Observation Wells	NA	BROWN	0.3	SAND	GRAVEL	NA	0.3
														BROWN	3.2	SILT	SAND	NA	3.5
														GREY	0	SILT	SAND	NA	3.5
														NA	2.5	NA	NA	NA	6.0
														NA	NA	NA	NA	NA	4.5
11177149	4909521	4823023	613423.9999	7/13/2004 12:00:00 AM	NA	NA	112	CONCRETE	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.6
11323476	4909743	4823262	614015.9999	3/16/2005 12:00:00 AM	81.4	7.9	5	PLASTIC	0	Overburden	NA	Observation Wells	NA	BROWN	0.49	SAND	SILT	GRAVEL	0.5
														BROWN	3.05	SILT	FINE SAND	NA	3.5
														GREY	4.3499999	SILT	CLAY	SAND	7.9
														NA	NA	NA	NA	NA	4.8
11323505	4909772	4823024	614238.9997	4/5/2005 12:00:00 AM	76.4	6.7	5	PLASTIC	0	Overburden	NA	Observation Wells	NA	BROWN	1.52	SILT	SAND	NA	1.5
														BROWN	1.53	SAND	EDIUM SAN	NA	3.0
														GREY	3.05	SILT	SAND	FINE-GRAINED	6.1
														GREY	0.6100001	SAND	DIUM-GRAIN	NA	6.7
														NA	NA	NA	NA	NA	3.0
11323580	4909847	4822977	614086.4998	6/23/2005 12:00:00 AM	NA	NA	3	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11323584	4909851	4823025	614244.0998	6/23/2005 12:00:00 AM	NA	NA	5	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11323585	4909852	4822983	614130.8997	6/23/2005 12:00:00 AM	NA	NA	5	PLASTIC	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11323587	4909854	4822942.999	614209.1002	6/23/2005 12:00:00 AM	NA	NA	5	PLASTIC	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11323588	4909855	4822941.999	614269.6996	5/23/2005 12:00:00 AM	NA	NA	5	PLASTIC	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11323589	4909856	4823132.999	614277.7996	6/23/2005 12:00:00 AM	NA	NA	5	PLASTIC	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11323590	4909857	4822954	614208.9002	6/28/2005 12:00:00 AM	NA	NA	5	NA	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11323614	4909881	4823909	613670.9998	7/14/2005 12:00:00 AM	88.0	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
23046642	7046642	4823170.999	614362.9999	6/26/2007 12:00:00 AM	80.1	5.8	4	PLASTIC	0	NA	NA	Observation Wells	NA	BROWN	2.1300001	FILL	GRAVEL	SOFT	2.1
														BROWN	1.2199998	SAND	SILT	FINE SAND	3.3
														GREY	2.4400001	SILT	SAND	CLAY	5.8
														NA	NA	NA	NA	NA	2.7
23051392	7051392	4823015	614179.0001	6/27/2007 12:00:00 AM	77.3	5.8	5	PLASTIC	0	NA	NA	Observation Wells	NA	BROWN	0.3	TOPSOIL	SAND	SOFT	0.3
														BROWN	1.22	SILT	CLAY	DRY	1.5
														GREY	0.3100001	SAND	SILT	MEDIUM SAND	1.8
														BROWN	0.91	SILT	CLAY	STONES	2.7
														GREY	3.05	CLAY	SAND	SOFT	5.8
														NA	NA	NA	NA	NA	4.3

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
23052394	7052394	4823168	613966.9998	11/2/2007 12:00:00 AM	NA	0	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
														NA	NA	NA	NA	NA	1.9
1001584619	7104706	4823658	613331	4/17/2008 12:00:00 AM	84.5	0	NA	NA	0	NA	NA	Abandoned-Other	NA	NA	NA	NA	NA	NA	NA
1001585176	7104773	4823579	614444.0003	4/22/2008 12:00:00 AM	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1001703970	7109074	4823265	614466.0004	7/10/2008 12:00:00 AM	NA	4.9	NA	NA	0	NA	NA	NA	Monitoring	BLACK	1.22	OTHER	FILL	LOOSE	1.2
														BROWN	1.8799999	SAND	SILT	LOOSE	3.1
														GREY	1.7800002	SAND	SILT	ATER-BEARIN	4.9
														NA	NA	NA	CLAY	NA	NA
														NA	NA	NA	NA	NA	1.8
1001703973	7109075	4823210	614601	7/10/2008 12:00:00 AM	76.8	4.9	4	PLASTIC	0	NA	NA	NA	Monitoring	BLACK	1.22	OTHER	FILL	LOOSE	1.2
														BROWN	1.8799999	SAND	SILT	LOOSE	3.1
														GREY	1.7800002	SAND	SILT	ATER-BEARIN	4.9
														NA	NA	NA	CLAY	NA	NA
														NA	NA	NA	NA	NA	1.8
1001801137	7111583	4822860	613600.0001	12/9/2007 12:00:00 AM	83.5	7	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BLACK	0.1	OTHER	NA	HARD	0.1
														BROWN	0.1	OTHER	NA	HARD	0.2
														BROWN	1.3	CLAY	SILTY	LOOSE	1.5
														GREY	2.0999999	CLAY	SILTY	TILL	3.6
														NA	NA	NA	GRAVEL	DENSE	NA
														GREY	NA	SHALE	NA	DENSE	7.0
														NA	NA	NA	NA	NA	4.7
1001944777	7117362	4823064.999	614305.9997	7/5/2008 12:00:00 AM	78.2	4.5	5	PLASTIC	1.5	NA	NA	Test Hole	Monitoring	BROWN	1.5	FILL	NA	NA	1.5
														GREY	3	CLAY	NA	NA	4.5
														NA	NA	NA	NA	NA	4.5
1002422611	7122849	4824745	615465.0001	4/9/2009 12:00:00 AM	80.0	2.9	2	PLASTIC	0	NA	NA	NA	Monitoring	BROWN	2	SAND	GRAVEL	FILL	0.6
														BROWN	4	SILT	FINE SAND	LOOSE	1.8
														GREY	3.5	SILT	FINE SAND	LOOSE	2.9
														NA	NA	NA	NA	NA	1.5
1002422614	7122850	4824763	615463.9998	4/9/2009 12:00:00 AM	79.9	3	2	PLASTIC	0	NA	NA	NA	Monitoring	BROWN	2.5	SAND	GRAVEL	FILL	0.8
														BROWN	2.5	SILT	FINE SAND	LOOSE	1.5
														GREY	5	SILT	FINE SAND	LOOSE	3.0
														NA	NA	NA	NA	NA	1.5
1002422617	7122851	4824732	615455.0001	4/9/2009 12:00:00 AM	80.1	12.5	1	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	8	FILL	NA	NA	2.4
														GREY	3	TILL	NA	NA	3.4
														GREY	30	SHALE	LIMESTONE	NA	12.5
														NA	NA	NA	NA	NA	9.4
1002422620	7122852	4824732	615455.0001	4/9/2009 12:00:00 AM	80.1	3.4	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	8	FILL	NA	NA	2.4
														GREY	3	TILL	SHALE	WEATHERED	3.4
														NA	NA	NA	NA	NA	1.8
1002741237	7118824	4823059	614312.9997	7/10/2008 12:00:00 AM	NA	NA	5	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0
1002796577	7133398	4823264.999	614471.9996	9/25/2009 12:00:00 AM	78.5	4.6	NA	NA	0	NA	NA	Observation Wells	Monitoring	BLACK	0.3	OTHER	NA	HARD	0.1
														BROWN	7.6999998	SILT	SAND	LOOSE	2.4
														GREY	7	SILT	STONES	DENSE	4.6
														NA	NA	NA	NA	NA	NA
1003169217	7148417	4823157	614459.0003	6/10/2010 12:00:00 AM	78.9	4.6	2	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BROWN	8	SAND	NA	NA	2.4
														BROWN	7	SILT	SAND	NA	4.6
														NA	NA	NA	NA	NA	NA
														NA	NA	NA	NA	NA	1.5
1003169219	7148418	4823200	614442.9997	6/10/2010 12:00:00 AM	79.8	4.6	2	PLASTIC	0	NA	NA	Test Hole	Monitoring and Test Hole	BROWN	8	SAND	NA	LOOSE	2.4
														GREY	7	SILT	SAND	NA	4.6
														NA	NA	NA	NA	NA	1.5
1003169221	7148419	4823232	614445.9998	6/10/2010 12:00:00 AM	79.5	4.6	2	PLASTIC	0	NA	NA	NA	Monitoring and Test Hole	BROWN	8	SAND	NA	LOOSE	2.4
														GREY	7	SILT	SAND	LOOSE	4.6
														NA	NA	NA	NA	NA	1.5
1003169223	7148420	4823301	614445	6/10/2010 12:00:00 AM	79.0	3.4	1	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BROWN	8	SAND	NA	NA	2.4
														BROWN	3	SILT	SAND	NA	3.4
														NA	NA	NA	NA	NA	1.8

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1003357980	7153798	4824721.999	615495.0003	8/10/2010 12:00:00 AM	79.5	0	NA	NA	0	NA	NA	ed Monitoring and	NA	NA	NA	NA	NA	NA	NA
1003358010	7153813	4824647	615438.9996	8/10/2010 12:00:00 AM	80.2	0	NA	NA	0	NA	NA	Abandoned-Other	Other	NA	NA	NA	NA	NA	NA
1003431946	7155591	4823602.999	614503.9998	7/23/2010 12:00:00 AM	81.3	5.7	NA	PLASTIC	0	NA	NA	Test Hole	Monitoring	BROWN	3.3	SILT	CLAY	GRAVEL	3.3
														GREY	2.3999999	SILT	CLAY	GRAVEL	5.7
														NA	NA	NA	NA	NA	1.9
														NA	NA	NA	NA	NA	2.5
														NA	NA	NA	NA	NA	2.5
														NA	NA	NA	NA	NA	5.5
1003456013	7157715	4823249.999	614450.9998	12/3/2010 12:00:00 AM	79.1	1.8	1	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BROWN	3	CLAY	GRAVEL	SOFT	0.9
														BROWN	3	SAND	GRAVEL	NA	1.8
														NA	NA	NA	NA	NA	0.0
1003456088	7157716	4823240	614459.0004	12/3/2010 12:00:00 AM	79.1	5.5	1	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BROWN	2	CLAY	SILT	SOFT	0.6
														BROWN	14	SAND	GRAVEL	SOFT	4.9
														BROWN	2	SAND	NA	DENSE	5.5
														NA	NA	NA	NA	NA	2.4
1003456090	7157717	4823240.999	614453.0003	12/3/2010 12:00:00 AM	79.2	3.7	1	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BROWN	6	SILT	CLAY	DENSE	1.8
														BROWN	6	SAND	SILT	NA	3.7
														NA	NA	NA	NA	NA	1.2
1003495961	7161795	4823601	614516.0002	2/14/2011 12:00:00 AM	80.7	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1003505993	7162774	4823542	614591.0003	3/15/2011 12:00:00 AM	79.3	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1003507031	7162960	4823047	614403.9999	4/28/2011 12:00:00 AM	NA	4.6	NA	NA	0	NA	NA	Test Hole	Test Hole	BROWN	5	GRAVEL	FILL	LOOSE	1.5
														BROWN	10	CLAY	SAND	SOFT	4.6
														NA	NA	NA	NA	NA	1.5
1003558156	7168027	4823161	614210	7/24/2011 12:00:00 AM	81.1	6.1	2	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BROWN	8	SILT	SAND	NA	2.4
														GREY	12	SILT	SAND	ATER-BEARIN	6.1
														NA	NA	NA	NA	NA	3.0
1003558158	7168028	4823129	614176.0002	7/24/2011 12:00:00 AM	NA	NA	5	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0
1003558160	7168029	4823150	614187.0003	7/24/2011 12:00:00 AM	NA	NA	5	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0
1003593178	7170695	4823946	614493.0001	10/5/2011 12:00:00 AM	NA	3	NA	NA	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BROWN	4	SAND	NA	FILL	1.2
														GREY	6	CLAY	SAND	SILT	3.0
														NA	NA	NA	NA	NA	1.5
1003593180	7170696	4823937.999	614477.0004	10/5/2011 12:00:00 AM	83.8	3.7	1	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BROWN	4	SAND	NA	ATER-BEARIN	1.2
														BROWN	8	CLAY	SAND	SILT	3.7
														NA	NA	NA	NA	NA	2.1
1003610391	7172110	4823466	613064.9999	11/2/2011 12:00:00 AM	90.0	8.2	3	PLASTIC	0	NA	NA	Test Hole	Monitoring and Test Hole	BROWN	1.22	FILL	SAND	SOFT	1.2
														BROWN	2.4400001	SILT	CLAY	SOFT	3.7
														BROWN	0.9100001	SILT	CLAY	DENSE	4.6
														GREY	1.5299997	SILT	CLAY	DENSE	6.1
														GREY	2.1299996	SILT	CLAY	ATER-BEARIN	8.2
														NA	NA	NA	NA	NA	5.2
1003610393	7172111	4823466	613064.9999	11/2/2011 12:00:00 AM	90.0	6.7	3	PLASTIC	0	NA	NA	Test Hole	Monitoring and Test Hole	BROWN	1.22	FILL	SAND	SOFT	1.2
														BROWN	1.8799999	SILT	CLAY	SOFT	3.1
														GREY	3.6100001	SILT	CLAY	DENSE	6.7
														NA	NA	NA	NA	NA	3.7

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1003610395	7172112	4823466	613064.9999	11/2/2011 12:00:00 AM	90.0	6.7	3	PLASTIC	0	NA	NA	NA		BROWN	1.22	FILL	SAND	SOFT	1.2
														BROWN	1.8799999	SILT	CLAY	SOFT	3.1
														GREY	3.6100001	SILT	CLAY	DENSE	6.7
													NA	NA	NA	NA	NA	NA	3.7
1003753551	7179448	4824240	613971.9998	11/3/2011 12:00:00 AM	88.6	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1003956950	7183380	4823956	613811.0004	6/15/2012 12:00:00 AM	NA	NA	90	CONCRETE	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.1
1003962303	7183548	4823228	614452.0002	5/30/2012 12:00:00 AM	79.4	4.5	4	PLASTIC	0	NA	NA	Monitoring and Test Hole		BROWN	1	SAND	GRAVEL	SOFT	1.0
														BROWN	2	SILT	SAND	SOFT	3.0
													Monitoring and Test Hole	GREY	1.5	SILT	FINE SAND	SOFT	4.5
														NA	NA	NA	NA	NA	1.5
1003962314	7183549	4823231	614447.0002	5/30/2012 12:00:00 AM	79.4	4.5	4	PLASTIC	0	NA	NA	Monitoring and Test Hole		BROWN	1	SAND	GRAVEL	SOFT	1.0
														BROWN	2	SAND	SILT	SOFT	3.0
													Monitoring and Test Hole	GREY	1.5	SILT	FINE SAND	SOFT	4.5
														NA	NA	NA	NA	NA	1.5
1004160474	7187652	4823025.999	614309.9997	9/13/2012 12:00:00 AM	77.1	8.2	2	PLASTIC	0	NA	NA	NA		BROWN	3	SAND	GRAVEL	LOOSE	0.9
														GREY	17	SILT	CLAY	DENSE	6.1
														GREY	7	SILT	CLAY	SAND	8.2
														NA	NA	NA	NA	NA	5.2
													Monitoring	BROWN	4	FILL	NA	NA	1.2
1004163417	7187901	4823240	614453.0004	8/17/2012 12:00:00 AM	79.2	4.6	2	PLASTIC	0	NA	NA	Test Hole		BROWN	2	TILL	NA	NA	1.8
														BROWN	2	SAND	SILT	NA	2.4
														GREY	7	SILT	SAND	ATER-BEARIN	4.6
													NA	NA	NA	NA	NA	NA	1.5
1004163420	7187902	4823285	614454.9999	8/17/2012 12:00:00 AM	78.8	4.6	2	PLASTIC	0	NA	NA	Test Hole		BROWN	4	FILL	NA	NA	1.2
														BROWN	2	TILL	NA	NA	1.8
														BROWN	2	SAND	SILT	NA	2.4
													Monitoring and Test Hole	GREY	7	SILT	SAND	ATER-BEARIN	4.6
														NA	NA	NA	NA	NA	1.5
1004163423	7187903	4823237	614458.0004	8/17/2012 12:00:00 AM	79.2	4.6	2	PLASTIC	0	NA	NA	Observation Wells		BROWN	4	FILL	NA	NA	1.2
														BROWN	2	TILL	NA	NA	1.8
														BROWN	2	SAND	SILT	NA	2.4
													Monitoring and Test Hole	GREY	7	SILT	SAND	ATER-BEARIN	4.6
														NA	NA	NA	NA	NA	1.5
1004164005	7187967	4823067	614479.9998	8/28/2012 12:00:00 AM	75.5	4.6	2	PLASTIC	0	NA	NA	Observation Wells		BROWN	2	SAND	GRAVEL	FILL	0.6
														BROWN	8	SILT	SAND	LOOSE	3.0
													Monitoring and Test Hole	GREY	5	SILT	CLAY	SOFT	4.6
														NA	NA	NA	NA	NA	1.5
1004192472	7190772	4822933.999	614186.9998	9/25/2012 12:00:00 AM	75.6	10.1	6	STEEL	0	NA	NA	Dewatering		GREY	20	CLAY	STONES	SILT	6.1
														GREY	13	LIMESTONE	SILT	CLAY	10.1
														NA	NA	NA	NA	NA	NA
														NA	NA	NA	NA	NA	6.1
													Dewatering	NA	NA	NA	NA	NA	10.1
1004195958	7183814	4823252	614424.0003	5/30/2012 12:00:00 AM	79.4	1.4	3	PLASTIC	0	NA	NA	Test Hole		WHITE	0.2	OTHER	NA	HARD	0.2
														BROWN	0.8	SAND	GRAVEL	SOFT	1.0
													Monitoring and Test Hole	GREY	0.4	SILT	FINE SAND	SOFT	1.4
														NA	NA	NA	NA	NA	0.7
1004196108	7188470	4822831	614200.0003	8/12/2012 12:00:00 AM	76.8	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1004198457	7188960	4822913.999	614069.0002	8/1/2012 12:00:00 AM	77.1	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1004204479	7191574	4824338	614397.0002	10/18/2012 12:00:00 AM	86.4	4.3	1	PLASTIC	0	NA	NA	NA		BROWN	6	SAND	NA	NA	1.8
														GREY	8	CLAY	NA	NA	4.3
													NA	NA	NA	NA	NA	NA	1.2
1004224024	7194093	4824360	614343.9999	12/13/2012 12:00:00 AM	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1004370371	7203664	4822592.999	614212	4/5/2013 12:00:00 AM	79.2	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
														BROWN	6	FINE SAND	DENSE	NA	6.0

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1004629409	7211007	4823210	614402.0004	5/6/2013 12:00:00 AM	80.1	12.1	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	GREY	6.1000004	SHALE	CLAY	HARD	12.1
														NA	NA	NA	NA	NA	9.1
														NA	NA	NA	NA	NA	NA
1004629426	7211008	4823177	614470.0003	5/6/2013 12:00:00 AM	78.8	12.1	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	6	FINE SAND	DENSE	NA	6.0
														GREY	6.1000004	SHALE	CLAY	HARD	12.1
														NA	NA	NA	NA	NA	9.1
1004629597	7211009	4823214	614463.9998	5/6/2013 12:00:00 AM	79.3	12.1	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	6	FINE SAND	DENSE	NA	6.0
														GREY	6.1000004	SHALE	CLAY	HARD	12.1
														NA	NA	NA	NA	NA	9.1
1004715986	7217001	4822433	614182.0001	10/8/2013 12:00:00 AM	78.0	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1004731231	7219153	4823206	614009.0001	10/18/2013 12:00:00 AM	82.4	6.7	2	PLASTIC	0	NA	FRESH	Test Hole	Monitoring and Test Hole	BROWN	12	FILL	NA	NA	3.7
														BROWN	3	TILL	NA	NA	4.6
														GREY	7	TILL	NA	NA	6.7
														NA	NA	NA	NA	NA	3.7
1004790232	7220998	4823468	613007.0004	4/23/2014 12:00:00 AM	NA	NA	3	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4
1004790279	7220999	4823429	613009.0003	4/23/2014 12:00:00 AM	NA	NA	3	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7
1004790282	7221000	4823405	612989.9997	4/23/2014 12:00:00 AM	NA	NA	3	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7
1004950194	7224153	4824335	614368.9996	6/18/2014 12:00:00 AM	86.7	4.9	1	PLASTIC	0	NA	NA	Observation Wells	Monitoring and Test Hole	BROWN	7	FILL	SAND	NA	2.1
														GREY	9	CLAY	SILT	NA	4.9
														NA	NA	NA	NA	NA	2.7
1004950267	7224154	4824356	614366.0002	6/24/2014	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1004950270	7224155	4824356	614366.0002	6/24/2014 12:00:00 AM	87.4	4.9	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring and Test Hole	BROWN	11	SAND	GRAVEL	NA	3.4
														GREY	5	SILT	SAND	NA	4.9
														NA	NA	NA	NA	NA	2.4
1004977346	7224573	4824354	614371.0001	7/18/2014 12:00:00 AM	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1005117760	7226930	4823031	614300.9999	7/24/2014 12:00:00 AM	NA	NA	5	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.1
1005290217	7235986	4824033.999	614549.9998	12/12/2014 12:00:00 AM	85.1	5.8	2	PLASTIC	0	NA	NA	NA	Monitoring	BROWN	7	SAND	NA	FINE SAND	2.1
														BROWN	9	CLAY	NA	SOFT	4.9
														GREY	3	CLAY	TILL	HARD	5.8
														NA	NA	NA	NA	NA	1.5
1005304034	7237053	4824680	615458.9998	12/11/2014 12:00:00 AM	NA	NA	5	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1005439505	7243496	4823554	614140.9997	6/6/2015 12:00:00 AM	84.6	6.1	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	GREY	0.2	NA	NA	NA	0.2
														BROWN	3.0999999	NA	NA	NA	3.3
														BROWN	2.8	SAND	TILL	NA	6.1
														NA	NA	NA	NA	NA	3.1
1005870811	7256306	4824713	615381.9998	7/16/2014 12:00:00 AM	81.0	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1005870835	7256314	4824777	615376.0003	7/4/2014 12:00:00 AM	80.6	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1006160086	7267261	4824751	615467.0004	12/14/2012 12:00:00 AM	79.9	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1006177173	7267968	4823444.999	614425.9997	6/22/2016 12:00:00 AM	80.0	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1006290118	7274681	4822917	614683.9998	8/19/2016 12:00:00 AM	75.8	2.9	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	2.9000001	SAND	STONES	LOOSE	2.9
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4
1006290121	7274682	4822965	614618.9996	8/19/2016 12:00:00 AM	76.2	2.9	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	2.9000001	SAND	STONES	LOOSE	2.9
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4
1006290124	7274683	4823013.999	614559.0003	8/19/2016 12:00:00 AM	75.7	2.9	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	2.9000001	SAND	STONES	LOOSE	2.9
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1006290127	7274684	4823145	614588.0002	8/24/2016 12:00:00 AM	75.9	3.9	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	1	SAND	GRAVEL	LOOSE	1.0
														BROWN	2.9000001	FILL	SAND	LOOSE	3.9
														NA	NA	NA	NA	NA	2.4
1006290130	7274685	4823145.999	614497.0001	8/25/2016 12:00:00 AM	77.9	3.9	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	1	SAND	GRAVEL	LOOSE	1.0
														BROWN	1.7	SILT	SAND	DENSE	2.7
														GREY	1.2	SILT	GRAVEL	DENSE	3.9
														NA	NA	NA	NA	NA	2.4
1006290133	7274686	4823107	614514.9998	8/25/2016 12:00:00 AM	75.3	3.9	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	1	SAND	GRAVEL	LOOSE	1.0
														BROWN	2	SILT	FILL	LOOSE	3.0
														GREY	0.9000001	SILT	SAND	DENSE	3.9
														NA	NA	NA	NA	NA	2.4
1006290280	7274735	4823152	614543.0001	8/24/2016 12:00:00 AM	76.2	3.9	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	1	SAND	GRAVEL	LOOSE	1.0
														BROWN	2	FILL	ROCK	LOOSE	3.0
														GREY	0.9000001	SILT	SAND	DENSE	3.9
														NA	NA	NA	NA	NA	2.4
1006290319	7274748	4822810	614701.9997	8/19/2016 12:00:00 AM	76.0	0.7	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	2.4000001	SAND	STONES	LOOSE	0.7
														NA	NA	NA	NA	NA	NA
														NA	NA	NA	NA	NA	0.3
1006322615	7278218	4823254.999	614135.0001	12/6/2016 12:00:00 AM	80.5	14.9	1	PLASTIC	0	NA	NA	Observation Wells	Monitoring	NA	5	TOPSOIL	NA	NA	1.5
														GREY	10	CLAY	NA	SOFT	4.6
														GREY	5	CLAY	NA	NA	6.1
														NA	10	CLAY	GRAVEL	NA	9.1
														NA	19	LIMESTONE	NA	NA	14.9
														NA	NA	NA	NA	NA	11.9
1006322618	7278219	4823274	614147.9998	12/2/2016 12:00:00 AM	79.2	7.5	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	2.5	TOPSOIL	NA	NA	0.8
														BROWN	7.5	CLAY	NA	SOFT	3.0
														GREY	5	CLAY	SILT	NA	4.6
														NA	9	CLAY	GRAVEL	NA	7.3
														NA	0.5	NA	NA	NA	7.5
														NA	NA	NA	NA	NA	4.3
1006322621	7278220	4823252	614141.0002	12/2/2016 12:00:00 AM	80.5	9.1	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	2.5	TOPSOIL	NA	NA	0.8
														BROWN	5	CLAY	NA	NA	2.3
														GREY	7.5	CLAY	SILT	SOFT	4.6
														GREY	10	CLAY	GRAVEL	NA	7.6
														GREY	5	CLAY	GRAVEL	HARD	9.1
														NA	NA	NA	NA	NA	3.0
1006347898	7280175	4822873	614082.9998	12/22/2016 12:00:00 AM	78.1	3.7	1	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BLACK	0.5	NA	NA	NA	0.2
														BROWN	6.5	FILL	NA	NA	2.1
														BROWN	5	SILT	SAND	NA	3.7
														NA	NA	NA	NA	NA	0.0
1006347901	7280176	4822877	614077.0002	12/22/2016 12:00:00 AM	NA	3.7	NA	NA	0	NA	NA	Monitoring and Test Hole	NA	BLACK	0.5	NA	NA	NA	0.2
														BROWN	6.5	FILL	NA	NA	2.1
														BROWN	5	SILT	SAND	NA	3.7
														NA	NA	NA	NA	NA	0.0
1006347904	7280177	4822863	614076.0001	12/22/2016 12:00:00 AM	78.2	3.7	1	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BLACK	0.5	NA	NA	NA	0.2
														BROWN	6.5	FILL	NA	NA	2.1
														BROWN	5	SILT	SAND	NA	3.7
														NA	NA	NA	NA	NA	0.0
1006347907	7280178	4822870	614067.9998	12/22/2016 12:00:00 AM	78.3	4	1	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BLACK	0.5	NA	NA	NA	0.2
														BROWN	6.5	FILL	NA	NA	2.1
														BROWN	6	SILT	SAND	NA	4.0
														NA	NA	NA	NA	NA	0.0
1006347910	7280179	4822880	614090.9999	12/22/2016 12:00:00 AM	78.0	4.6	1	PLASTIC	0	NA	NA	Monitoring and Test Hole	Monitoring and Test Hole	BROWN	7	TOPSOIL	NA	NA	2.1
														BROWN	8	SILT	SAND	NA	4.6
														NA	NA	NA	NA	NA	0.0

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1006361006	7282294	4822549.999	613984.0003	1/11/2017 12:00:00 AM	80.3	9.1	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BLACK	0.5	NA	NA	TOPSOIL	0.5
														BROWN	1.77	SILT	CLAY	NA	2.3
														GREY	4.3899999	SHALE	NA	WEATHERED	6.7
														GREY	2.4300003	SHALE	NA	NA	9.1
														NA	NA	NA	NA	NA	7.6
1006361009	7282295	4822531	614128.9997	1/17/2017 12:00:00 AM	79.3	3.3	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	1.5700001	GRAVEL	NA	FILL	1.6
														BROWN	1.4299999	SILT	CLAY	TILL	3.0
														GREY	0.3299999	SHALE	NA	WEATHERED	3.3
														NA	NA	NA	NA	NA	1.2
1006361063	7282313	4822531	614128.9997	1/17/2017 12:00:00 AM	79.3	16.7	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BLACK	0.5	TOPSOIL	SAND	NA	0.5
														BROWN	1.77	CLAY	SILT	TILL	2.3
														GREY	5.3000002	SHALE	NA	WEATHERED	7.6
														GREY	9.0900002	SHALE	LIMESTONE	PACKED	16.7
														NA	NA	NA	NA	NA	15.1
1006361066	7282314	4822531	614128.9997	1/23/2017 12:00:00 AM	79.3	10	5	PLASTIC	0	NA	NA	Observation Wells	NA	BLACK	0.5	TOPSOIL	SAND	NA	0.5
														BROWN	1.77	CLAY	SILT	TILL	2.3
														GREY	5.9100003	SHALE	NA	WEATHERED	8.2
														GREY	1.8199997	SHALE	LIMESTONE	PACKED	10.0
														NA	NA	NA	NA	NA	8.2
1006361069	7282315	4822607	614054.0002	1/20/2017 12:00:00 AM	80.4	2.7	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BLACK	1.5	NA	NA	TOPSOIL	1.5
														BROWN	1	SILT	CLAY	NA	2.5
														GREY	0.22	SHALE	NA	WEATHERED	2.7
														NA	NA	NA	NA	NA	2.5
1006361204	7282291	4822607	614054.0002	1/17/2017 12:00:00 AM	80.4	3.2	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BLACK	0.5	NA	NA	TOPSOIL	0.5
														BROWN	2.25	SILT	CLAY	TILL	2.8
														GREY	0.46	SHALE	NA	WEATHERED	3.2
														NA	NA	NA	NA	NA	1.0
1006361207	7282292	4822531	614128.9997	2/21/2017 12:00:00 AM	79.3	3.8	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BLACK	0.5	TOPSOIL	NA	NA	0.5
														BROWN	3	SILT	CLAY	TILL	3.5
														GREY	0.3099999	SHALE	WEATHERED	NA	3.8
														NA	NA	NA	NA	NA	1.2
1006361423	7282255	4824109	613871.9998	2/6/2017 12:00:00 AM	86.2	7.6	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	NA	0.3	NA	CEMENTED	NA	0.3
														BROWN	1.2	SAND	GRAVEL	SOFT	1.5
														BROWN	1.2	SILT	SAND	DENSE	2.7
														GREY	4.8999996	CLAY	SILT	DENSE	7.6
														NA	NA	NA	NA	NA	4.5
1006361432	7282258	4824320	613655.0004	2/9/2017 12:00:00 AM	91.7	6.5	5	PLASTIC	0	NA	Untested	Observation Wells	Municipal	BROWN	1	SAND	FILL	PACKED	1.0
														BROWN	2.7	SAND	NA	LOOSE	3.7
														GREY	1.1000001	SAND	NA	LOOSE	4.8
														GREY	1.6999998	SHALE	LIMESTONE	LAYERED	6.5
														NA	NA	NA	NA	NA	1.8

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1006361654	7282259	4824007.999	613983.0002	2/6/2017 12:00:00 AM	85.2	6.2	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	1.5	SAND	GRAVEL	PACKED	1.5
														BROWN	0.7	SILT	TILL	DENSE	2.2
														GREY	1.5999999	SILT	TILL	DENSE	3.8
														GREY	1.0000002	SAND	TILL	DENSE	4.8
														GREY	1.3999996	SHALE	LIMESTONE	LAYERED	6.2
														NA	NA	NA	NA	NA	1.8
1006362303	7282484	4822592	613964.9997	1/12/2017 12:00:00 AM	80.7	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1006367884	7282790	4823581	614615.9998	2/9/2017 12:00:00 AM	NA	2.1	NA	NA	0	NA	NA	NA	NA	GREY	5	CLAY	SHALE	WEATHERED	1.5
														NA	2	NA	NA	NA	2.1
														NA	NA	NA	NA	NA	0.6
1006367887	7282791	4823583	614620.9999	2/10/2017 12:00:00 AM	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1006367890	7282792	4823575	614609.9998	2/9/2017 12:00:00 AM	79.7	2.1	1	PLASTIC	0	NA	NA	NA	NA	GREY	5	CLAY	SHALE	WEATHERED	1.5
														NA	2	NA	NA	NA	2.1
														NA	NA	NA	NA	NA	0.6
1006375884	7284447	4824736	615479.9999	11/22/2016 12:00:00 AM	79.7	17.1	2	PLASTIC	0	NA	NA	Monitoring and Test Hole	Test Hole	BROWN	10	SAND	GRAVEL	LOOSE	3.0
														GREY	20	SILT	SAND	PACKED	9.1
														GREY	26	CLAY	SILT	DENSE	17.1
														NA	NA	NA	NA	NA	15.5
1006375887	7284448	4824756	615336.0003	11/22/2016 12:00:00 AM	81.7	4.9	2	PLASTIC	0	NA	NA	Monitoring and Test Hole	Test Hole	BROWN	10	SAND	GRAVEL	LOOSE	3.0
														GREY	6	SILT	SAND	PACKED	4.9
														NA	NA	NA	NA	NA	1.8
1006375890	7284449	4824684	615352.0002	11/22/2016 12:00:00 AM	80.6	4.9	2	PLASTIC	0	NA	NA	Monitoring and Test Hole	Test Hole	BROWN	10	SAND	GRAVEL	LOOSE	3.0
														GREY	6	SILT	SAND	PACKED	4.9
														NA	NA	NA	NA	NA	1.8
1006375893	7284450	4824771	615394.0003	11/22/2016 12:00:00 AM	80.3	6.1	2	PLASTIC	0	NA	NA	Monitoring and Test Hole	Test Hole	BROWN	10	SAND	GRAVEL	LOOSE	3.0
														GREY	10	SILT	SAND	PACKED	6.1
														NA	NA	NA	NA	NA	3.0
1006376769	7284531	4823609	614607.9999	3/28/2017 12:00:00 AM	NA	NA	5	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.9
1006376921	7284532	4823569	614609.9996	3/28/2017 12:00:00 AM	NA	NA	3	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.6
1006376924	7284533	4823589	614608.9998	3/28/2017 12:00:00 AM	NA	NA	5	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0
1006376930	7284534	4823578	614616.0001	3/28/2017 12:00:00 AM	NA	NA	3	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.6
1006376933	7284535	4823587	614618.9998	3/28/2017 12:00:00 AM	NA	NA	3	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.6
1006383141	7284674	4823817	614168.0001	3/29/2017 12:00:00 AM	NA	7.6	NA	NA	0	NA	Untested	Observation Wells	NA	BROWN	1.5	SAND	FILL	PACKED	1.5
														BROWN	1.5	SILT	TILL	DENSE	3.0
														GREY	2.6999998	SILT	TILL	DENSE	5.7
														GREY	1.9000001	SAND	NA	LOOSE	7.6
														NA	NA	NA	NA	NA	6.0
1006383150	7284676	4823831	614123	3/30/2017 12:00:00 AM	82.3	13.1	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	1.5	SAND	FILL	PACKED	1.5
														BROWN	1.5	SILT	TILL	DENSE	3.0
														GREY	3.4000001	SILT	TILL	DENSE	6.4
														GREY	4.9999995	SAND	GRAVEL	LOOSE	11.4
														GREY	1.7000008	SHALE	LIMESTONE	LAYERED	13.1
														NA	NA	NA	NA	NA	8.4

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1006383168	7284678	4823844	614131.9997	3/30/2017 12:00:00 AM	82.4	14	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	0.8	SAND	GRAVEL	LOOSE	0.8
														BROWN	2.2	CLAY	SILT	SOFT	3.0
														GREY	4.5999999	SILT	SAND	DENSE	7.6
														GREY	3.9000001	SAND	SILT	DENSE	11.5
														GREY	2.5	SHALE	SHALE	LAYERED	14.0
													Monitoring	NA	NA	NA	NA	NA	12.5
1006395414	7285857	4824454	615331.0002	2/7/2017 12:00:00 AM	80.4	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1006429573	7286063	4823814	614139.0004	4/5/2017 12:00:00 AM	82.3	15	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	1.6	SAND	GRAVEL	FILL	1.6
														GREY	5.3000002	SILT	CLAY	DENSE	6.9
														GREY	5.0999999	SAND	GRAVEL	LOOSE	12.0
														GREY	3	SHALE	LIMESTONE	LAYERED	15.0
													Monitoring	NA	NA	NA	NA	NA	12.0
1006481726	7287213	4823639	614694.9998	4/12/2017 12:00:00 AM	80.4	6.1	2	PLASTIC	0	NA	NA	Observation Wells		BROWN	3	FILL	NA	LOOSE	0.9
														BROWN	7	SILT	CLAY	PACKED	3.0
														GREY	10	SILT	CLAY	PACKED	6.1
													Monitoring	NA	NA	NA	NA	NA	3.0
1006488361	7287343	4823317	613890.0001	4/12/2017 12:00:00 AM	79.2	6.1	2	PLASTIC	0	NA	NA	Observation Wells		BROWN	4	FILL	SAND	SOFT	1.2
														BROWN	6	SILT	CLAY	SOFT	3.0
														GREY	10	SILT	CLAY	DENSE	6.1
													Monitoring	NA	NA	NA	NA	NA	3.0
1006488364	7287344	4823316	613888.9998	4/12/2017 12:00:00 AM	79.2	13.7	2	PLASTIC	0	NA	NA	Observation Wells		BROWN	4	FILL	SAND	SOFT	1.2
														BROWN	6	SILT	CLAY	SOFT	3.0
														GREY	10	SILT	CLAY	DENSE	6.1
														GREY	25	SILT	CLAY	ATER-BEARIN	13.7
													Monitoring	NA	NA	NA	NA	NA	10.7
1006488380	7287345	4823149.999	613049.0004	4/12/2017 12:00:00 AM	84.0	7.6	2	PLASTIC	0	NA	NA	Observation Wells		BROWN	4	FILL	SAND	SOFT	1.2
														BROWN	6	SILT	CLAY	SOFT	3.0
														GREY	12	SILT	CLAY	DENSE	6.7
														GREY	3	SILT	CLAY	ATER-BEARIN	7.6
													Monitoring	NA	NA	NA	NA	NA	4.6
1006488383	7287346	4823148.999	613048	4/12/2017 12:00:00 AM	84.1	15.8	2	PLASTIC	0	NA	NA	Observation Wells		BROWN	4	FILL	SAND	SOFT	1.2
														BROWN	6	SILT	CLAY	SOFT	3.0
														GREY	10	SILT	CLAY	DENSE	6.1
														GREY	32	SILT	CLAY	ATER-BEARIN	15.8
													Monitoring	NA	NA	NA	NA	NA	12.8
1006547861	7288429	4823434	614406.9999	NA	NA	NA	13	PLASTIC	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.9
1006629960	7290465	4823814	615349	5/11/2017 12:00:00 AM	78.1	9.1	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	1.5	SAND	SILT	CLAY	1.5
														GREY	3	SILT	CLAY	GRAVEL	4.5
														BROWN	2	SILT	SAND	DENSE	6.5
														BROWN	2.6000004	SAND	SAND	DENSE	9.1
													Monitoring	NA	NA	NA	NA	NA	7.6
1006629963	7290466	4823736.999	614716.0001	5/19/2017 12:00:00 AM	82.0	6.9	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	0.9	SAND	GRAVEL	SILT	0.9
														BROWN	4.1999998	SILT	TILL	DENSE	5.1
														GREY	1.8000002	SAND	SILT	DENSE	6.9
														NA	NA	NA	NA	NA	NA
													Monitoring	NA	NA	NA	NA	NA	3.9
1006629977	7290467	4823692	614703.0003	5/18/2017 12:00:00 AM	81.4	6.9	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	0.9	SAND	GRAVEL	SILT	0.9
														BROWN	4.1999998	SILT	TILL	DENSE	5.1
														GREY	1.8000002	SAND	SILT	DENSE	6.9
													Monitoring	NA	NA	NA	NA	NA	3.9
1006630452	7290468	4823692	614703.0003	5/18/2017 12:00:00 AM	81.4	5.7	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	0.9	SAND	GRAVEL	SILT	0.9
														BROWN	4.1999998	SILT	TILL	DENSE	5.1
														GREY	0.5999999	SAND	SILT	DENSE	5.7
													Monitoring	NA	NA	NA	NA	NA	2.7
1006630455	7290469	4823713.999	614240.0002	5/3/2017 12:00:00 AM	84.5	10.1	5	PLASTIC	0	NA	NA	Test Hole		BLACK	0.2	OTHER	GRAVEL	DENSE	0.2
														BROWN	0.5	OTHER	SAND	LOOSE	0.7
														BROWN	1.5999999	SILT	SAND	OTHER	2.3
														GREY	7.8000002	SAND	SILT	GRAVEL	10.1
													Monitoring	NA	NA	NA	NA	NA	6.7

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1006630636	7290480	4823696	614256.0004	5/26/2017 12:00:00 AM	84.5	11.9	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	0.6	SAND	GRAVEL	FILL	0.6
														BROWN	2.8000002	SILT	SAND	DENSE	3.4
														GREY	4.1999998	SILT	CLAY	DENSE	7.6
														GREY	1.4000001	CLAY	SILT	DENSE	9.0
														GREY	2.8999996	SHALE	LIMESTONE	LAYERED	11.9
														NA	NA	NA	NA	NA	9.0
1006630824	7290487	4823670	614303.0004	5/24/2017 12:00:00 AM	83.1	13.2	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	0.7	SAND	GRAVEL	FILL	0.7
														BROWN	1.5999999	SILT	SAND	DENSE	2.3
														GREY	6.5	SILT	CLAY	DENSE	8.8
														GREY	4.3999996	SHALE	LIMESTONE	LAYERED	13.2
														NA	NA	NA	NA	NA	10.3
1006630840	7290488	4823700	614236.0001	5/23/2017 12:00:00 AM	84.6	13.5	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	1	SAND	GRAVEL	FILL	1.0
														BROWN	1	SAND	SILT	LOOSE	2.0
														BROWN	1	SILT	CLAY	DENSE	3.0
														GREY	6.1000004	SILT	CLAY	DENSE	9.1
														GREY	4.3999996	SHALE	LIMESTONE	LAYERED	13.5
														NA	NA	NA	NA	NA	9.7
1006709849	7292349	4823628	613416	5/12/2017 12:00:00 AM	84.8	6.1	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	20	SILT	FINE SAND	PACKED	6.1
														NA	NA	NA	NA	NA	4.6
1006709852	7292350	4823895	613620.0001	5/12/2017 12:00:00 AM	88.6	6.1	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	20	SILT	FINE SAND	PACKED	6.1
														NA	NA	NA	NA	NA	4.6
1006709855	7292351	4824049	613735.9999	5/12/2017 12:00:00 AM	84.1	6.1	2	PLASTIC	0	NA	NA	NA	Monitoring	BROWN	20	SILT	FINE SAND	PACKED	6.1
														NA	NA	NA	NA	NA	4.6
1006709858	7292352	4824050	613737.0001	5/12/2017 12:00:00 AM	84.1	9.1	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	20	SILT	FINE SAND	PACKED	6.1
														GREY	10	GRAVEL	BOULDERS	DENSE	9.1
														NA	NA	NA	NA	NA	7.6
1006709894	7292359	4824155	613798.9997	7/28/2017 12:00:00 AM	87.8	9.1	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	1	TOPSOIL	NA	LOOSE	0.3
														GREY	19	SILT	CLAY	DENSE	6.1
														GREY	10	SHALE	NA	HARD	9.1
														NA	NA	NA	NA	NA	7.6
1006709897	7292360	4824156	613798.9997	7/28/2017 12:00:00 AM	87.8	6.1	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	1	TOPSOIL	NA	LOOSE	0.3
														GREY	19	SILT	CLAY	PACKED	6.1
														NA	NA	NA	NA	NA	4.6
1006709900	7292361	4824183	613833.9999	7/28/2017 12:00:00 AM	87.1	10.7	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	GREY	15	SILT	CLAY	DENSE	4.6
														GREY	20	SHALE	NA	HARD	10.7
														NA	NA	NA	NA	NA	9.1
1006709903	7292362	4824281.999	613833.9999	7/28/2017 12:00:00 AM	88.1	4.6	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	GREY	15	SILT	CLAY	PACKED	4.6
														NA	NA	NA	NA	NA	3.0
1006710157	7292383	4823533	613346.9998	5/12/2017 12:00:00 AM	82.1	7.6	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	4	FILL	SAND	SOFT	1.2
														BROWN	8	SILT	CLAY	SOFT	3.7
														BROWN	3	SILT	CLAY	DENSE	4.6
														GREY	5	SILT	CLAY	DENSE	6.1
														GREY	5	SILT	CLAY	ATER-BEARIN	7.6
														NA	NA	NA	NA	NA	6.1
1006710160	7292384	4823534	613348.0001	5/12/2017 12:00:00 AM	82.1	14.3	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	4	FILL	SAND	SOFT	1.2
														BROWN	8	SILT	CLAY	SOFT	3.7
														BROWN	3	SILT	CLAY	DENSE	4.6
														GREY	12	SILT	CLAY	DENSE	8.2
														NA	20	SHALE	NA	HARD	14.3
														NA	NA	NA	NA	NA	12.8
1006710163	7292385	4823521	613339.0002	5/12/2017 12:00:00 AM	81.8	12.8	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	4	FILL	SAND	SOFT	1.2
														BROWN	8	SILT	CLAY	SOFT	3.7
														BROWN	3	SILT	CLAY	DENSE	4.6
														GREY	10	SILT	CLAY	DENSE	7.6
														GREY	17	SHALE	NA	HARD	12.8
														NA	NA	NA	NA	NA	11.3

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1006710166	7292386	4823522	613339.9997	5/12/2017 12:00:00 AM	81.9	7.6	2	PLASTIC	0	NA	NA	NA		BROWN	4	FILL	SAND	SOFT	1.2
														BROWN	8	SILT	CLAY	SOFT	3.7
														BROWN	3	SILT	CLAY	DENSE	4.6
														GREY	5	SILT	CLAY	DENSE	6.1
														GREY	5	SILT	CLAY	ATER-BEARIN	7.6
													Monitoring	NA	NA	NA	NA	NA	6.1
1006732093	7295291	4823635	614654.0001	3/14/2017 12:00:00 AM	80.3	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1006747711	7296325	4823256	614109.9997	NA	80.2	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1006758607	7296574	4823284	614121.0003	8/31/2017 12:00:00 AM	78.7	2.4	1	PLASTIC	0	NA	NA	Monitoring and Test Hole		GREY	1	GRAVEL	HARD	PACKED	0.3
														BROWN	5	TILL	HARD	DENSE	1.8
														GREY	2	TILL	HARD	DENSE	2.4
													Test Hole	NA	NA	NA	NA	NA	0.1
1006758610	7296575	4823284	614193.0003	8/30/2017 12:00:00 AM	78.3	7.3	1	PLASTIC	0	NA	NA	Monitoring and Test Hole		GREY	1	GRAVEL	EDIUM SAN	PACKED	0.3
														BROWN	6	TILL	HARD	DENSE	2.1
														GREY	6	TILL	HARD	DENSE	4.0
														GREY	5	SHALE	NA	WEATHERED	5.5
														GREY	6	SHALE	NA	FRACTURED	7.3
													Test Hole	NA	NA	NA	NA	NA	5.8
1006784926	7298078	4823529.999	614555.9997	8/11/2017 12:00:00 AM	79.4	5.2	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	4.5	CLAY	SILT	SAND	4.5
														GREY	0.6999998	SHALE	ROCK	WEATHERED	5.2
													Monitoring	NA	NA	NA	NA	NA	2.2
1006785449	7298174	4823529	614615	9/20/2017 12:00:00 AM	79.6	4.1	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	1.2	SAND	GRAVEL	FILL	1.2
														BROWN	1.8	SILT	CLAY	DENSE	3.0
														GREY	1.0999999	SHALE	LIMESTONE	LAYERED	4.1
													Monitoring	NA	NA	NA	NA	NA	1.3
1006785452	7298175	4823515.999	614606	9/20/2017 12:00:00 AM	79.4	4.5	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	3.5999999	SILT	CLAY	SAND	3.6
														GREY	0.9000001	GRAVEL	DD FRAGME	LAYERED	4.5
													Monitoring	NA	NA	NA	NA	NA	1.5
1006869845	7301160	4823978	614878.9998	11/7/2017 12:00:00 AM	82.1	4.4	2	PLASTIC	0	NA	NA	NA		NA	2	SAND	GRAVEL	NA	0.6
														BROWN	11	SILT	NA	NA	4.0
														GREY	1.5	SHALE	NA	NA	4.4
													Monitoring	NA	NA	NA	NA	NA	1.4
1006911304	7301773	4823562	614613.0002	10/12/2017 12:00:00 AM	79.7	4.9	2	PLASTIC	0	NA	NA	Test Hole		BROWN	6	SAND	NA	DRY	1.8
														BROWN	6	SILT	TILL	NA	3.7
														BROWN	4	SHALE	TILL	DRY	4.9
													Monitoring	NA	NA	NA	NA	NA	3.0
1006979760	7304725	4822866.999	614143.9999	10/6/2017 12:00:00 AM	NA	4.5	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	1	SAND	GRAVEL	DENSE	1.0
														BROWN	2	SAND	SILT	GRAVEL	3.0
														GREY	1.5	SILT	CLAY	SAND	4.5
													Monitoring	NA	NA	NA	NA	NA	1.5
1006979763	7304726	4822688	614131	10/5/2017 12:00:00 AM	NA	4.5	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	1	SAND	GRAVEL	DENSE	1.0
														BROWN	2	SILT	CLAY	SOFT	3.0
														GREY	1.5	SILT	SAND	DENSE	4.5
													Monitoring	NA	NA	NA	NA	NA	1.5
1006979766	7304727	4822466	614168.0002	10/5/2017 12:00:00 AM	NA	2	NA	NA	0	NA	Untested	Observation Wells		BROWN	1	SAND	GRAVEL	DENSE	1.0
														GREY	1	SILT	CLAY	SAND	2.0
													NA	NA	NA	NA	NA	NA	1.2

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1006995692	7306886	4823606.999	614060.0003	12/8/2017 12:00:00 AM	NA	12.5	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	3	SAND	GRAVEL	SOFT	3.0
														GREY	6.3999996	SILT	SAND	GRAVEL	9.4
														GREY	3.1000004	SHALE	LIMESTONE	NA	12.5
													Monitoring	NA	NA	NA	NA	NA	9.4
1006995695	7306887	4823683	614280.9998	12/15/2017 12:00:00 AM	NA	15.2	10	PLASTIC	0	NA	NA	Observation Wells		BROWN	3	SAND	GRAVEL	NA	3.0
														GREY	5.8000002	SILT	SAND	GRAVEL	8.8
														GREY	6.3999996	SHALE	LIMESTONE	NA	15.2
													Test Hole	NA	NA	NA	NA	NA	9.1
1007003204	7307828	4823711	614185.9998	1/18/2018 12:00:00 AM	NA	8.5	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	1	SAND	GRAVEL	FILL	1.0
														BROWN	2	SAND	NA	NA	3.0
														GREY	5.5299997	SAND	STONES	HARD	8.5
													Test Hole	NA	NA	NA	NA	NA	5.5
1007003609	7307873	4823585	614138.9999	1/10/2018 12:00:00 AM	NA	1.6	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	1.5	SAND	GRAVEL	SOFT	0.5
														GREY	3	CLAY	SAND	SOFT	1.4
														GREY	0.8000002	SILT	GRAVEL	HARD	1.6
													Monitoring	NA	NA	NA	NA	NA	0.5
1007003612	7307874	4823661.999	614235	1/12/2018 12:00:00 AM	NA	5.3	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	1.5	SAND	GRAVEL	SOFT	1.5
														GREY	3	CLAY	SAND	SOFT	4.5
														GREY	0.8000002	SILT	GRAVEL	HARD	5.3
													Monitoring	NA	NA	NA	NA	NA	1.5
1007008214	7308370	4823804	614291	12/20/2017 12:00:00 AM	NA	10.9	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	1.5	SAND	GRAVEL	SOFT	1.5
														BROWN	4.5	SILT	CLAY	STONES	6.0
														GREY	4.8999996	SAND	SAND	DENSE	10.9
													Monitoring	NA	NA	NA	NA	NA	7.9
1007008217	7308371	4823878.999	614062.9999	12/19/2017 12:00:00 AM	NA	11.8	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	1.5	SAND	TOPSOIL	SOFT	1.5
														GREY	4.5	SILT	SAND	DENSE	6.0
														GREY	4.6000004	SAND	SILT	LOOSE	10.6
														GREY	1.1999998	SILT	SHALE	LAYERED	11.8
													Monitoring	NA	NA	NA	NA	NA	8.8
1007018077	7308913	4822506	614091.0001	1/9/2018 12:00:00 AM	NA	9.1	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	1.5	SAND	GRAVEL	LOOSE	1.5
														BROWN	1.5	CLAY	SILT	SOFT	3.0
														GREY	6.1000004	SHALE	LIMESTONE	LAYERED	9.1
													Monitoring	NA	NA	NA	NA	NA	7.6
1007036930	7310439	4823585	614119.0002	2/3/2018 12:00:00 AM	NA	12.2	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	0.7	SAND	GRAVEL	FILL	0.7
														BROWN	2.5	SAND	SILT	SOFT	3.2
														BROWN	4.3999996	SILT	SHALE	HARD	7.6
														RED	4.5999999	SHALE	LIMESTONE	ROCK	12.2
													Monitoring	NA	NA	NA	NA	NA	9.2
1007036933	7310440	4823748	614268.0002	2/6/2018 12:00:00 AM	NA	17.8	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	2.8	SAND	GRAVEL	FILL	2.8
														BROWN	2.8999999	SAND	SILT	HARD	5.7
														GREY	1.7000003	SAND	BOULDERS	LAYERED	7.4
														RED	6.2999997	SILT	SHALE	HARD	13.7
														GREY	4.0999994	SHALE	LIMESTONE	ROCK	17.8
													Monitoring	NA	NA	NA	NA	NA	14.8
1007036951	7310446	4823799	614246.9999	2/23/2018 12:00:00 AM	NA	9.1	NA	NA	0	NA	NA	Observation Wells		BROWN	1.5	SAND	SILT	SOFT	1.5
														BROWN	3.5999999	CLAY	SILT	HARD	5.1
														GREY	4.0000005	SAND	SILT	HARD	9.1
													NA	NA	NA	NA	NA	NA	NA
1007036954	7310447	4823812	614240.0003	2/22/2018 12:00:00 AM	NA	7.6	5	PLASTIC	0	NA	NA	Observation Wells		BROWN	1.5	SAND	SILT	SOFT	1.5
														BROWN	3.5999999	CLAY	SILT	HARD	5.1
														GREY	2.5	SAND	SILT	HARD	7.6
													Monitoring	NA	NA	NA	NA	NA	4.5
1007053294	7311202	4824741	615283.0003	3/19/2018 12:00:00 AM	NA	5.8	2	PLASTIC	0	NA	NA	Monitoring and Test Hole		BROWN	5	CLAY	GRAVEL	NA	1.5
														GREY	14	SHALE	NA	NA	5.8
													Test Hole	NA	NA	NA	NA	NA	2.7
1007060106	7311642	4824541	615309.0004	4/2/2018 12:00:00 AM	NA	10.6	5	PLASTIC	0	NA	Untested	Observation Wells		BROWN	2.4000001	SAND	SILT	LOOSE	2.4
														GREY	8.2000008	SHALE	LIMESTONE	LAYERED	10.6
													Monitoring	NA	NA	NA	NA	NA	7.6

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1007060109	7311643	4824542	615308.0001	4/2/2018 12:00:00 AM	NA	5.4	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	2.4000001	SAND	SILT	LOOSE	2.4
														GREY	3	SHALE	LIMESTONE	LAYERED	5.4
														NA	NA	NA	NA	NA	2.4
1007060112	7311644	4824519	615315	4/2/2018 12:00:00 AM	NA	10.6	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	2.4000001	SAND	SILT	LOOSE	2.4
														GREY	8.2000008	SHALE	LIMESTONE	LAYERED	10.6
														NA	NA	NA	NA	NA	7.6
1007060115	7311645	4824527	615325	4/3/2018 12:00:00 AM	NA	10.6	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	2.4000001	SAND	SILT	LOOSE	2.4
														GREY	8.2000008	SHALE	LIMESTONE	LAYERED	10.6
														NA	NA	NA	NA	NA	7.6
1007060118	7311646	4824513	615315.9997	4/3/2018 12:00:00 AM	NA	10.3	5	PLASTIC	0	NA	Untested	Observation Wells	Monitoring	BROWN	1.5	SAND	SILT	LOOSE	1.5
														BLACK	0.9000001	SAND	SILT	LOOSE	2.4
														GREY	7.9000001	SHALE	LIMESTONE	LAYERED	10.3
														NA	NA	NA	NA	NA	NA
														NA	NA	NA	NA	NA	7.3
1007085839	7312068	4822619	613918.0003	2/16/2018 12:00:00 AM	NA	15.5	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	GREY	2	OTHER	OTHER	HARD	0.6
														BROWN	13	TILL	CLAY	SILT	4.6
														YELLOW	36	SHALE	NA	HARD	15.5
														NA	NA	NA	NA	NA	14.0
1007085890	7312072	4822710	614014.0001	2/16/2018 12:00:00 AM	NA	15.2	2	PLASTIC	0	NA	NA	NA	Monitoring	GREY	2	OTHER	NA	HARD	0.6
														BROWN	3	FILL	NA	LOOSE	1.5
														BROWN	10	SAND	NA	ATER-BEARIN	4.6
														BROWN	5	SAND	SILT	PACKED	6.1
														GREY	7	CLAY	SILT	PACKED	8.2
														GREY	23	SHALE	NA	HARD	15.2
														NA	NA	NA	NA	NA	13.7
1007101608	7312571	4824474	615337.9998	4/11/2018 12:00:00 AM	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1007230214	7315579	4823233	614552.0002	3/23/2018 12:00:00 AM	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1007306909	7321737	4823590	614120.0003	1/19/2018 12:00:00 AM	NA	15.2	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	1.5	SAND	GRAVEL	SOFT	1.5
														GREY	4.5	CLAY	SILT	SOFT	6.0
														GREY	3.1000004	SILT	GRAVEL	HARD	9.1
														GREY	6.0999994	LIMESTONE	ROCK	HARD	15.2
1007306972	7321758	4823622	614235.9997	1/27/2018 12:00:00 AM	NA	12.2	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	5	GRAVEL	SAND	FILL	1.5
														GREY	25	CLAY	GRAVEL	TILL	9.1
														GREY	10	SHALE	NA	ROCK	12.2
														NA	NA	NA	NA	NA	9.1
1007307011	7321771	4823641	614284.0003	7/21/2018 12:00:00 AM	NA	7.6	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	5	GRAVEL	SAND	NA	1.5
														BROWN	10	SAND	NA	NA	4.6
														GREY	10	SAND	SILT	NA	7.6
														NA	NA	NA	NA	NA	7.6
1007307131	7321811	4823644.999	614323.9999	1/14/2018 12:00:00 AM	NA	4.6	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	1.5	SAND	GRAVEL	SOFT	0.5
														GREY	4.5	CLAY	SILT	SAND	1.8
														GREY	1.5999999	SILT	GRAVEL	TILL	2.3
														GREY	7.5999999	LIMESTONE	NA	NA	4.6
														NA	NA	NA	NA	NA	3.7
1007307134	7321812	4823645	614314.0001	1/15/2018 12:00:00 AM	NA	15.2	NA	NA	0	NA	NA	NA	Monitoring	BROWN	1.5	SAND	GRAVEL	SOFT	1.5
														GREY	4.5	CLAY	SILT	SOFT	6.0
														GREY	3.1000004	SILT	GRAVEL	HARD	9.1
														GREY	6.0999994	LIMESTONE	ROCK	HARD	15.2
														NA	NA	NA	NA	NA	NA
														NA	NA	NA	NA	NA	12.1
1007307137	7321813	4823527	614161.9998	1/18/2018 12:00:00 AM	NA	15.2	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	1.5	SAND	GRAVEL	SOFT	1.5
														GREY	4.5	CLAY	SILT	SOFT	6.0
														GREY	3.1000004	SILT	GRAVEL	HARD	9.1
														GREY	6.0999994	LIMESTONE	ROCK	HARD	15.2
														NA	NA	NA	NA	NA	12.1

BOREHOLE ID	WELL ID	NORTHING	EASTING	DATE COMPLETED	ELEVATION (m)	WELL DEPTH (m)	CASING DIAMETER (cm)	CASING MATERIAL	STATIC WATER LEVEL (m)	WELL TYPE	WATER KIND	FINAL STATUS	USE	MATERIAL COLOR	THICKNESS (m)	MATERIAL 1	MATERIAL2	MATERIAL 3	DEPTH (m)
1007307140	7321814	4823449	614073.0002	1/19/2018 12:00:00 AM	NA	4.5	5	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	1.5	SAND	GRAVEL	SOFT	1.5
														GREY	1.5	CLAY	SILT	SOFT	3.0
														BROWN	1.5	SAND	SILT	SOFT	4.5
														NA	NA	NA	NA	NA	1.5
1007317432	7323197	4822872	614133.0002	9/7/2018 12:00:00 AM	NA	10.7	NA	NA	0	NA	NA	NA	NA	BROWN	5	FILL	SILT	LOOSE	1.5
														BROWN	15	FILL	SAND	PACKED	6.1
														GREY	15	SHALE	NA	HARD	10.7
														NA	NA	NA	NA	NA	7.6
1007317459	7323206	4822903	614108.9997	5/25/2018 12:00:00 AM	NA	7.6	NA	NA	0	NA	NA	NA	NA	BROWN	1	TOPSOIL	NA	LOOSE	0.3
														BROWN	4	TILL	NA	LOOSE	1.5
														BROWN	20	SILT	SAND	PACKED	7.6
														NA	NA	NA	NA	NA	4.6
1007317462	7323207	4822906	614088	5/25/2018 12:00:00 AM	NA	6.1	NA	NA	0	NA	NA	NA	NA	BROWN	1	TOPSOIL	NA	LOOSE	0.3
														BROWN	4	FILL	NA	LOOSE	1.5
														BROWN	15	SILT	SAND	PACKED	6.1
														NA	NA	NA	NA	NA	3.0
1007317465	7323208	4822902	614108.9997	5/25/2018 12:00:00 AM	NA	6.1	NA	NA	0	NA	NA	NA	NA	BROWN	1	TOPSOIL	NA	LOOSE	0.3
														BROWN	4	FILL	NA	LOOSE	1.5
														BROWN	15	SILT	SAND	PACKED	6.1
														NA	NA	NA	NA	NA	3.0
1007317822	7323129	4823072	612998.9996	6/20/2018 12:00:00 AM	NA	6.1	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	12	FILL	FINE SAND	LOOSE	3.7
														GREY	8	SHALE	NA	HARD	6.1
														NA	NA	NA	NA	NA	3.0
1007317825	7323130	4823154	613060	6/20/2018 12:00:00 AM	NA	12.2	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BROWN	1	TOPSOIL	NA	LOOSE	0.3
														GREY	14	TILL	SILT	PACKED	4.6
														GREY	25	SHALE	NA	HARD	12.2
														NA	NA	NA	NA	NA	9.1
1007317831	7323132	4823391	613228.0003	6/20/2018 12:00:00 AM	NA	12.2	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	GREY	40	SILT	FINE SAND	CLAY	12.2
														GREY	NA	SHALE	NA	HARD	NA
														NA	NA	NA	NA	NA	10.7
1007317834	7323133	4823390	613228.0001	6/20/2018 12:00:00 AM	NA	30.5	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	GREY	40	SILT	FINE SAND	CLAY	12.2
														GREY	60	SHALE	NA	HARD	30.5
														NA	NA	NA	NA	NA	27.4
1007317843	7323136	4823339	613202.9998	6/20/2018 12:00:00 AM	NA	30.5	2	PLASTIC	0	NA	NA	Observation Wells	Monitoring	BLACK	1	OTHER	NA	HARD	0.3
														GREY	29	SILT	FINE SAND	CLAY	9.1
														GREY	70	SHALE	NA	HARD	30.5
														NA	NA	NA	NA	NA	27.4
1007346994	7326909	4824575	615328.0004	1/2/2019 12:00:00 AM	NA	4.6	NA	NA	0	NA	NA	NA	NA	NA	2	SILT	NA	NA	0.6
														NA	13	SHALE	NA	NA	4.6
														NA	NA	NA	NA	NA	1.5
1007353325	7330661	4823252	614141.0002	1/18/2019 12:00:00 AM	NA	0	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.1
1007353328	7330662	4823254.999	614135.0001	1/18/2019 12:00:00 AM	NA	0	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.9
1007353331	7330663	4823256.999	614115.9997	1/18/2019 12:00:00 AM	NA	0	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.6
1007371698	7328645	4823254	613494.0003	7/13/2018 12:00:00 AM	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:

1) NA: *No available*

Permit No.	Easting	Northing	UTM Zone	Client Name	Purpose	Sub-Purpose	Expiry Date	Permit End	Active	Surface/Ground Water	Source ID	Max L/Day	Days/Year	Max Hrs/Day	L/Min
0186-A3BPU8	614298	4823042	17	Centre City Capital Limited	Dewatering Construction	Construction	30/11/2016	30/11/2016	No	Ground Water	Well points/Eductor system	520000	365	24	361
02-P-3027	613904	4822617	17	Peel, Regional Municipality of	Water Supply	Municipal	31/08/2012	31/08/2012	No	Surface Water	Lake Ontario	454000000	365	24	316000
2535-8EUMAZ	615524	4824784	17	The Regional Municipality of Peel	Dewatering Construction	Construction	31/12/2014	31/12/2014	No	Ground Water	Segment 2	876392	365	24	608.6
2651-AHWS73	614298	4823042	17	Centre City Capital Limited	Dewatering Construction	Construction	30/11/2017	30/11/2017	No	Ground Water	Well points/Eductor system	520000	365	24	361
5816-8CYTRE	615524	4824784	17	The Regional Municipality of Peel	Dewatering Construction	Construction	31/12/2014	31/12/2014	No	Ground Water	Segment 2	876392	210	24	608.6
70-P-334	613886	4823055	17	Port Credit Public Utilities Commission	Water Supply	Municipal	31/03/1980	31/03/1980	No	Surface Water	Credit River	245484	120	9	455
94-P-3017	613564	4823052	17	Imperial Oil Limited	Remediation	Groundwater	31/03/2004	31/03/2004	No	Ground Water	Recovery Wells	172800	365	24	120
2535-8EUMAZ	615469	4824720	17	The Regional Municipality of Peel	Dewatering Construction	Construction	31/12/2014	31/12/2014	No	Ground Water	Segment 3	931854	365	24	647.1
5816-8CYTRE	615469	4824720	17	The Regional Municipality of Peel	Dewatering Construction	Construction	31/12/2014	31/12/2014	No	Ground Water	Segment 3	931854	365	24	647.1
5873-86HL5G	615524	4824784	17	The Regional Municipality of Peel	Dewatering Construction	Construction	01/01/2011	01/01/2011	No	Ground Water	Segment 2	876392	60	24	608.6
7230-9KQK3N	615449	4824756	17	Trinity Development Group Inc.	Dewatering Construction	Construction	30/06/2016	30/06/2016	No	Ground Water	Lakeshore Sewer	650000	365	24	451.4
8583-9ZRR88	615449	4824756	17	The Regional Municipality of Peel	Dewatering Construction	Construction	30/06/2016	30/06/2016	No	Ground Water	Lakeshore Sewer	650000	365	24	451.4
5873-86HL5G	615469	4824720	17	The Regional Municipality of Peel	Dewatering Construction	Construction	01/01/2011	01/01/2011	No	Ground Water	Segment 3	931854	60	24	647.1
7230-9KQK3N	615445	4824751	17	Trinity Development Group Inc.	Dewatering Construction	Construction	30/06/2016	30/06/2016	No	Ground Water	Lakeshore Forcemains	650000	365	24	451.4
8583-9ZRR88	615445	4824751	17	The Regional Municipality of Peel	Dewatering Construction	Construction	30/06/2016	30/06/2016	No	Ground Water	Lakeshore Forcemains	650000	365	24	451.4
5873-86HL5G	615433	4824634	17	The Regional Municipality of Peel	Dewatering Construction	Construction	01/01/2011	01/01/2011	No	Ground Water	Segment 4	533286	60	24	370.3
5873-86HL5G	615627	4824588	17	The Regional Municipality of Peel	Dewatering Construction	Construction	01/01/2011	01/01/2011	No	Ground Water	Segment 5	918365	60	24	637.8
3006-BDRPVV	614193	4822961	17	Centre City Capital Limited	Dewatering	Other - Dewatering	07/07/2029	07/07/2029	Yes	Ground Water	31 Lakeshore Building Sump	225000	365	24	156.2

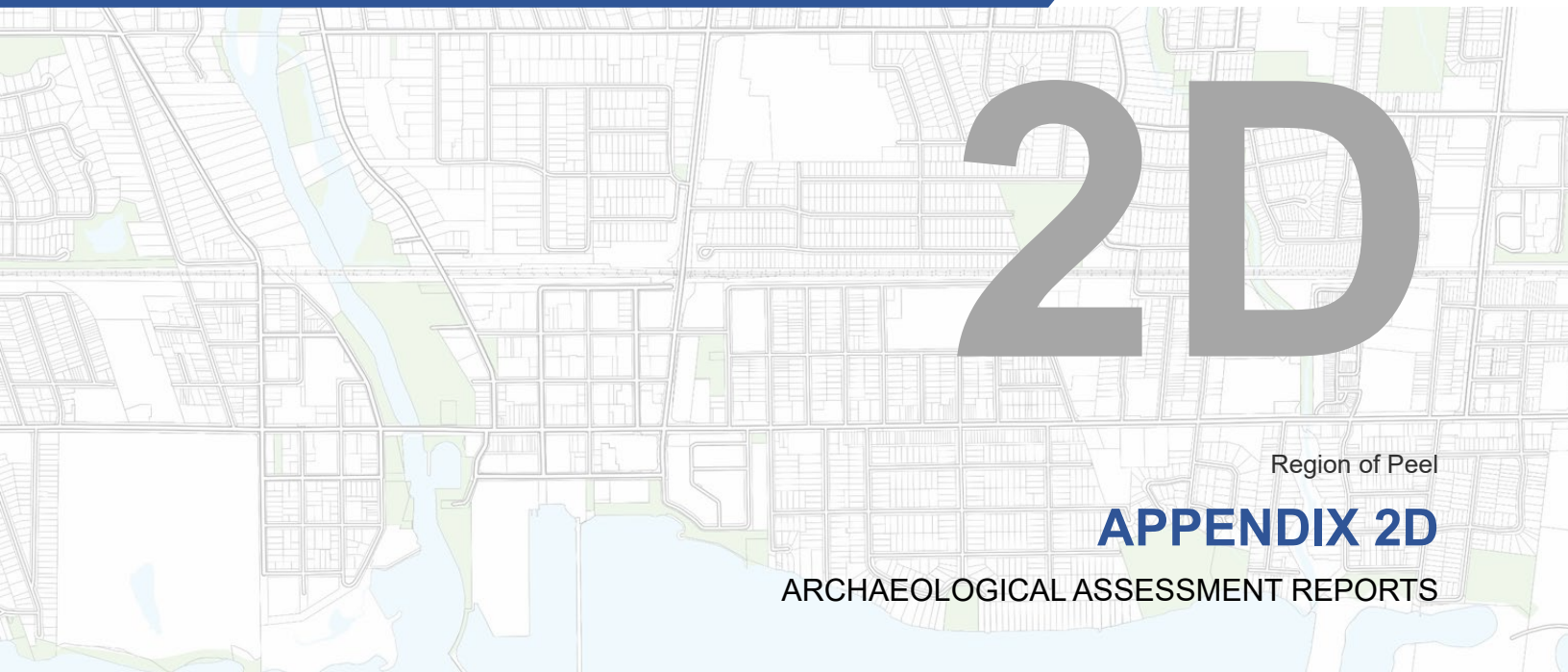
BOREHOLEID	WELL ID	COMPLETED	DEPTH	DP BEDROCK	STATIC LEV	X	Y	AUDIT NO	TAG	County	Township	STREET	CITY	SITE	CONTRACTOR	Received	Final Status	Use1	Use2
1005806168	7252084	10/19/2015 12:00:00 AM	4.599999905	0	0	613546.9998	4822679	Z222561	A188424	PEEL	MISSISSAUGA CITY (PORT CREDIT)	70 WESLEY AVE	Mississauga		7241	11-16-2015 12:00:00 AM	Test Hole	Monitoring and Test Hole	
1007053291	7311201	3/18/2018 12:00:00 AM	5.5	0	0	615218.9998	4824804	Z284609	A242941	PEEL	MISSISSAUGA CITY	515 LAKESHORE RD E	Mississauga		7241	5-11-2018 12:00:00 AM	Test Hole	Test Hole	Monitoring
1007554244	7338252	7/15/2019 12:00:00 AM	4.5	0	0	614030.9998	4822382.999	FBF54A6S	A271877	PEEL	MISSISSAUGA CITY (PORT CREDIT)	70 MISSISSAUGA RD. S	PORT CREDIT	MW 19 EX2A-21	6607	7-26-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007643099	7341808	8/19/2019 12:00:00 AM	5.099999905	0	0	615307.0001	4824510.999	2NZI2FVV	A271829	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA	MW 11/19	6607	9-17-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007643207	7341844	8/19/2019 12:00:00 AM	36.59999847	0	0	614258.0002	4823580	GNLFU7D8	A271735	PEEL	MISSISSAUGA CITY (PORT CREDIT)	26 ANN ST.	MISSISSAUGA	MW 19-4 SH	6607	9-16-2019 12:00:00 AM	Observation Wells	Monitoring	
1007643336	7341887	8/14/2019 12:00:00 AM	26.5	0	0	614288.0003	4823523.999	WBYVTTLD	A264678	PEEL	MISSISSAUGA CITY (PORT CREDIT)	78 PARK ST. E	MISSISSAUGA	MW 19-1	6607	9-16-2019 12:00:00 AM	Observation Wells	Monitoring	
1007677363	7342224	6/17/2019 12:00:00 AM	2.400000095	0	0	614325.9998	4822353.999	Z313429	A268015	PEEL	MISSISSAUGA CITY (PORT CREDIT)	53 LAKE ST	Mississauga		7241	7-23-2019 12:00:00 AM	Monitoring and Test Hole	Monitoring and Test Hole	
1007677375	7342228	6/18/2019 12:00:00 AM	3.400000095	0	0	614294.0001	4822397	Z313434	A268019	PEEL	MISSISSAUGA CITY (PORT CREDIT)	53 LAKE ST	Mississauga		7241	7-23-2019 12:00:00 AM	Monitoring and Test Hole	Monitoring and Test Hole	
1007683879	7344847	8/20/2019 12:00:00 AM	4	0	0	614355.0003	4823258	Z319207	A252201	PEEL	MISSISSAUGA CITY (PORT CREDIT)	94 Lakeshore Road East	Mississauga		7241	10-9-2019 12:00:00 AM		Monitoring	
1007789387	7349461	11/6/2019 12:00:00 AM	5.199999809	0	0	615282.9997	4824524.999	NP324MEM	A279393	PEEL	MISSISSAUGA CITY	1015 SHAW DRIVE	MISSISSAUGA	MW 21-19	6607	11-29-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007987761	7351995	12/16/2019 12:00:00 AM	0	0	0	615323.9999	4824530.999	55TNFPOG	A271824	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA		6607	1-23-2020 12:00:00 AM	Abandoned-Other		
1005806171	7252085	10/19/2015 12:00:00 AM	6.400000095	0	0	613530.0001	4822653.999	Z222557	A188467	PEEL	MISSISSAUGA CITY (PORT CREDIT)	70 WESLEY AVE	Mississauga		7241	11-16-2015 12:00:00 AM	Test Hole	Monitoring and Test Hole	
1007554169	7338227	7/15/2019 12:00:00 AM	4.5	0	0	613990.9998	4822486	2XWZMLMC	A271875	PEEL	MISSISSAUGA CITY (PORT CREDIT)	70 MISSISSAUGA RD. S	PORT CREDIT	MW 19 EX2A-22	6607	7-26-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007554277	7338263	7/15/2019 12:00:00 AM	4.5	0	0	614018.0001	4822405.999	MMCRTRSP	A271876	PEEL	MISSISSAUGA CITY (PORT CREDIT)	70 MISSISSAUGA RD. S	PORT CREDIT	MW 19 EX2A-20	6607	7-26-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007643114	7341813	8/19/2019 12:00:00 AM	5.099999905	0	0	615319.9997	4824510.999	4MBMFDFQ	A267069	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA	MW 13/19	6607	9-17-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007643210	7341845	8/20/2019 12:00:00 AM	5.099999905	0	0	615295.9996	4824512	GOJRONHM	A271894	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA	MW 14/19	6607	9-17-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007668126	7344067	9/6/2019 12:00:00 AM	5.099999905	0	0	615333.9998	4824539	AL2XPVKM	A271824	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA	MW 18-17	6607	10-2-2019 12:00:00 AM	Observation Wells	Monitoring	
1007677366	7342225	6/17/2019 12:00:00 AM	3	0	0	614313.0001	4822386.999	Z313430	A268016	PEEL	MISSISSAUGA CITY (PORT CREDIT)	53 LAKE ST	Mississauga		7241	7-23-2019 12:00:00 AM	Monitoring and Test Hole	Monitoring and Test Hole	
1007677378	7342229	6/26/2019 12:00:00 AM	2.700000048	0	0	614256.0001	4822437	Z313433	A270915	PEEL	MISSISSAUGA CITY (PORT CREDIT)	53 LAKE ST	Mississauga		7241	7-23-2019 12:00:00 AM	Monitoring and Test Hole	Monitoring and Test Hole	
1007683882	7344848	8/20/2019 12:00:00 AM	4	0	0	614356	4823255	Z313564	A277142	PEEL	MISSISSAUGA CITY (PORT CREDIT)	94 Lakeshore Rd East	Mississauga		7241	10-9-2019 12:00:00 AM	Observation Wells	Monitoring	
1007789432	7349476	11/5/2019 12:00:00 AM	5.199999809	0	0	615289.9999	4824531	TI9QX6MY	A279326	PEEL	MISSISSAUGA CITY	1015 SHAW DRIVE	MISSISSAUGA	MW 20-19	6607	11-29-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007987800	7352008	12/16/2019 12:00:00 AM	0	0	0	615302.9997	4824534	8TQ3XDP6	A271794	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA		6607	1-23-2020 12:00:00 AM	Abandoned-Other		
1005667305	7247765	3/26/2015 12:00:00 AM	0	0	0	614049.0004	4822407	C27886	A177040	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7215	9-2-2015 12:00:00 AM			
1006979769	7304728	10/5/2017 12:00:00 AM	3.599999905	0	0	614361.0003	4822326	Z248460	A232548	PEEL	MISSISSAUGA CITY (PORT CREDIT)	SOUTHWEST CORNER SADDINGTON PARK	PORT CREDIT		6607	1-30-2018 12:00:00 AM	Observation Wells	Monitoring	
1007554217	7338243	7/15/2019 12:00:00 AM	4.5	0	0	614008.0002	4822395	B3UVJF3Z	A271880	PEEL	MISSISSAUGA CITY (PORT CREDIT)	70 MISSISSAUGA RD. S	PORT CREDIT	MW 19 EX2A-19	6607	7-26-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	

BOREHOLEID	WELL ID	COMPLETED	DEPTH	DP BEDROCK	STATIC LEV	X	Y	AUDIT NO	TAG	County	Township	STREET	CITY	SITE	CONTRACTOR	Received	Final Status	Use1	Use2
1007643273	7341866	8/20/2019 12:00:00 AM	5.099999905	0	0	615304.0001	4824506	MV8ADLHN	A271892	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA	MW 15/19	6607	9-17-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007643153	7341826	8/20/2019 12:00:00 AM	5.099999905	0	0	615301.9996	4824534	8VODXPOH	A271801	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA	MW 10/19	6607	9-17-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007643324	7341883	8/21/2019 12:00:00 AM	47.5	0	0	614258.0002	4823580	TOJ5WP3R	A271753	PEEL	MISSISSAUGA CITY (PORT CREDIT)	26 ANN ST.	MISSISSAUGA	MW 19-4 DH	6607	9-16-2019 12:00:00 AM	Observation Wells	Monitoring	
1007668213	7344096	9/6/2019 12:00:00 AM	5.099999905	0	0	615324.9997	4824536	WLXRGDQ4	A271794	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA	MW 18-16	6607	10-2-2019 12:00:00 AM	Observation Wells	Monitoring	
1007677372	7342227	6/18/2019 12:00:00 AM	2.099999905	0	0	614307.9998	4822387	Z313432	A268018	PEEL	MISSISSAUGA CITY (PORT CREDIT)	53 LAKE ST	Mississauga		7241	7-23-2019 12:00:00 AM		Monitoring and Test Hole	
1007677384	7342231	6/26/2019 12:00:00 AM	5.599999905	0	0	614522.9997	4822514	Z313436	A270917	PEEL	MISSISSAUGA CITY (PORT CREDIT)	53 LAKE ST	Mississauga		7241	7-23-2019 12:00:00 AM	Monitoring and Test Hole	Monitoring and Test Hole	
1007786767	7349330	11/7/2019 12:00:00 AM	5.199999809	0	0	615292.9996	4824530	7FHX8J6I	A279239	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA	MW 19-19	6607	11-29-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007987749	7351991	12/16/2019 12:00:00 AM	0	0	0	615307.9997	4824520.999	4J6DBUHT	A271823	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA		6607	1-23-2020 12:00:00 AM	Abandoned-Other		
11323621	4909888	8/26/2005 12:00:00 AM	0	0	0	614966.0003	4824837	Z31562		PEEL	MISSISSAUGA CITY	407 MARF AVENUE	MISSISSAUGA		7147	9-14-2005 12:00:00 AM	Abandoned-Other	Not Used	
1006325657	7278357	12/9/2016 12:00:00 AM	0	0	0	613930.9997	4822545	C35168	A218521	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7215	12-29-2016 12:00:00 AM			
1007554202	7338238	7/15/2019 12:00:00 AM	4.5	0	0	613990.9999	4822378	7DSE4DIZ	A271878	PEEL	MISSISSAUGA CITY (PORT CREDIT)	70 MISSISSAUGA RD. S	PORT CREDIT	MW 19 EX2A-23	6607	7-26-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007643132	7341819	8/19/2019 12:00:00 AM	5.099999905	0	0	615314	4824522	69OKQA7V	A271799	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA	MW 12/19	6607	9-17-2019 12:00:00 AM	Observation Wells	Monitoring and Test Hole	
1007643144	7341823	8/15/2019 12:00:00 AM	27.39999962	0	0	614292.9998	4823539	8MUQDAWX	A271784	PEEL	MISSISSAUGA CITY (PORT CREDIT)	78 PARK ST. E	MISSISSAUGA	MW 19-2	6607	9-16-2019 12:00:00 AM	Observation Wells	Monitoring	
1007643258	7341861	8/22/2019 12:00:00 AM	8.199999809	0	0	614270.9997	4823536	LBX2P5WQ	A264691	PEEL	MISSISSAUGA CITY (PORT CREDIT)	22 ANN ST.	MISSISSAUGA	MW 19-3	6607	9-16-2019 12:00:00 AM	Observation Wells	Monitoring	
1007668210	7344095	9/6/2019 12:00:00 AM	5.099999905	0	0	615311.0003	4824530.999	V2VLC4KV	A271823	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA	MW 18-19	6607	10-2-2019 12:00:00 AM	Observation Wells	Monitoring	
1007677369	7342226	6/19/2019 12:00:00 AM	2.400000095	0	0	614314.9997	4822396	Z313431	A268017	PEEL	MISSISSAUGA CITY (PORT CREDIT)	53 LAKE ST	Mississauga		7241	7-23-2019 12:00:00 AM	Monitoring and Test Hole	Monitoring and Test Hole	
1007677381	7342230	6/16/2019 12:00:00 AM	3.700000048	0	0	614309.9996	4822506	Z313435	A270916	PEEL	MISSISSAUGA CITY (PORT CREDIT)	53 LAKE ST	Mississauga		7241	7-23-2019 12:00:00 AM	Monitoring and Test Hole	Monitoring and Test Hole	
1007683885	7344849	8/20/2019 12:00:00 AM	4	0	0	614377.0003	4823240	Z313468	A277143	PEEL	MISSISSAUGA CITY (PORT CREDIT)	94 Lakeshore Rd East	Mississauga		7241	10-9-2019 12:00:00 AM	Observation Wells	Monitoring	
1007805570	7349810	10/25/2019 12:00:00 AM	0	0	0	614238.9999	4823038	C45697	A277463	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7230	12-17-2019 12:00:00 AM			
1007988097	7352107	12/16/2019 12:00:00 AM	0	0	0	615306.9998	4824524	ZWM42FXX	A271829	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA		6607	1-23-2020 12:00:00 AM	Abandoned-Other		
1008281088	7358849	4/28/2020 12:00:00 AM	0	0	0	614522.0001	4822513.999	Z337859	A270917	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008281100	7358853	4/28/2020 12:00:00 AM	0	0	0	614301	4822511	Z337856	A268019	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008281112	7358857	4/28/2020 12:00:00 AM	0	0	0	614335.0001	4822495.999	Z330327		PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008348586	7362292	6/24/2020 12:00:00 AM	0	0	0	615258.9998	4824713	Z332734		PEEL	MISSISSAUGA CITY				7215	7-8-2020 12:00:00 AM			
1008371680	7363633	7/27/2020 12:00:00 AM	5.199999809	0	0	614337	4823610	2DEKHQS6	A283539	PEEL	MISSISSAUGA CITY (PORT CREDIT)	30 Queen St. East	Mississauga		7609	8-7-2020 12:00:00 AM	Observation Wells	Monitoring	

BOREHOLEID	WELL ID	COMPLETED	DEPTH	DP BEDROCK	STATIC LEV	X	Y	AUDIT NO	TAG	County	Township	STREET	CITY	SITE	CONTRACTOR	Received	Final Status	Use1	Use2
1008471952	7367339	5/14/2020 12:00:00 AM	0	0	0	613969.0001	4822441	C49553	A267037	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7215	9-10-2020 12:00:00 AM			
1008483103	7369148	8/25/2020 12:00:00 AM	0	0	0	614048	4822401	Z337310		PEEL	MISSISSAUGA CITY (PORT CREDIT)				7215	10-1-2020 12:00:00 AM			
1008492719	7370471	6/2/2020 12:00:00 AM	0	0	0	614145.9998	4823385	C49171	A276698	PEEL	MISSISSAUGA CITY (PORT CREDIT)				6988	10-16-2020 12:00:00 AM			
1007988076	7352100	12/16/2019 12:00:00 AM	0	0	0	615310.9999	4824540	WLEY845B	_NO_TAG	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA		6607	1-23-2020 12:00:00 AM	Abandoned-Other		
1008281118	7358859	4/28/2020 12:00:00 AM	0	0	0	614371.0004	4822354	Z337007	A268015	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008281097	7358852	4/28/2020 12:00:00 AM	0	0	0	614327	4822501	Z337857		PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008281109	7358856	4/28/2020 12:00:00 AM	0	0	0	614340	4822504	Z337853	A268016	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008342914	7362291	6/24/2020 12:00:00 AM	0	0	0	615214	4824790	Z332733	A242941	PEEL	MISSISSAUGA CITY				7215	7-8-2020 12:00:00 AM			
1008371677	7363632	7/27/2020 12:00:00 AM	4.599999905	0	0	614313.9999	4823565	5NZ4J5JW	A283540	PEEL	MISSISSAUGA CITY (PORT CREDIT)	30 Queen St East	Mississauga		7609	8-7-2020 12:00:00 AM	Observation Wells	Monitoring	
1008433249	7365035	6/17/2020 12:00:00 AM	0	0	0	614047	4822609	Z339708	A267993	PEEL	MISSISSAUGA CITY (PORT CREDIT)	62 Port St west	Mississauga		7241	8-14-2020 12:00:00 AM	Abandoned-Other	Monitoring	
1008483097	7369146	8/25/2020 12:00:00 AM	0	0	0	614115.0002	4822480	Z337309		PEEL	MISSISSAUGA CITY (PORT CREDIT)				7215	10-1-2020 12:00:00 AM			
1008490876	7371903	4/28/2020 12:00:00 AM	9.100000381	0	0	614304.0002	4823663	99H24M77	A295536	PEEL	MISSISSAUGA CITY (PORT CREDIT)	1175 Hurontario St			7360	11-3-2020 12:00:00 AM	Observation Wells	Monitoring	
1008514306	7373845	9/15/2020 12:00:00 AM	0	0	0	614145.0002	4822460	Z335260		PEEL	MISSISSAUGA CITY (PORT CREDIT)				7215	12-1-2020 12:00:00 AM			
1007988064	7352096	12/16/2019 12:00:00 AM	0	0	0	615314.9999	4824527	UFC5JTND	A267069	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA		6607	1-23-2020 12:00:00 AM	Abandoned-Other		
1008221295	7355171	1/13/2018 12:00:00 AM	9.100000381	0	0	614270.9998	4823597	Z275350	A239126	PEEL	MISSISSAUGA CITY (PORT CREDIT)	port credit go station	Mississauga		7383	11-28-2018 12:00:00 AM	Observation Wells	Test Hole	Monitoring
1008281094	7358851	4/28/2020 12:00:00 AM	0	0	0	614313.0003	4822498	Z337858	A268018	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008281106	7358855	4/28/2020 12:00:00 AM	0	0	0	614338.9999	4822514	Z337854	A268017	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008342911	7362290	6/24/2020 12:00:00 AM	0	0	0	615281.9998	4824750.999	Z332720	A244057	PEEL	MISSISSAUGA CITY				7215	7-8-2020 12:00:00 AM			
1008371674	7363631	7/24/2020 12:00:00 AM	4.599999905	0	0	614264.0002	4823606	4XE7ZMP4	A283618	PEEL	MISSISSAUGA CITY (PORT CREDIT)	30 Queen St East	Mississauga		7609	8-7-2020 12:00:00 AM	Observation Wells	Monitoring	
1008433243	7365033	6/17/2020 12:00:00 AM	0	0	0	614041.9998	4822602	Z339709	A267995	PEEL	MISSISSAUGA CITY (PORT CREDIT)	62 Port St West	Mississauga		7241	8-14-2020 12:00:00 AM	Abandoned-Other	Monitoring	
1008483094	7369145	8/25/2020 12:00:00 AM	0	0	0	614028.9998	4822609	Z337308		PEEL	MISSISSAUGA CITY (PORT CREDIT)				7215	10-1-2020 12:00:00 AM			
1008490873	7371902	4/29/2020 12:00:00 AM	9.100000381	0	0	614232	4823718	L8EQ62BY	A295535	PEEL	MISSISSAUGA CITY (PORT CREDIT)	1175 Hurontario St			7360	11-3-2020 12:00:00 AM	Observation Wells	Monitoring	
1008514300	7373843	9/15/2020 12:00:00 AM	0	0	0	614034.0003	4822474	Z335261	A267026	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7215	12-1-2020 12:00:00 AM			
1007988043	7352089	12/16/2019 12:00:00 AM	0	0	0	615331	4824525.999	Q53768XB	_NO_TAG	PEEL	MISSISSAUGA CITY	425 LAKESHORE RD. E	MISSISSAUGA		6607	1-23-2020 12:00:00 AM	Abandoned-Other		
1008221292	7355170	10/20/2018 12:00:00 AM	0	0	0	614247	4823665	Z275303	A235313	PEEL	MISSISSAUGA CITY (PORT CREDIT)	30 queen st e.	Mississauga		7383	11-28-2018 12:00:00 AM	Observation Wells	Test Hole	Monitoring

BOREHOLEID	WELL ID	COMPLETED	DEPTH	DP BEDROCK	STATIC LEV	X	Y	AUDIT NO	TAG	County	Township	STREET	CITY	SITE	CONTRACTOR	Received	Final Status	Use1	Use2
1008281091	7358850	4/28/2020 12:00:00 AM	0	0	0	614319.0004	4822512	Z337860	A270916	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008281103	7358854	4/28/2020 12:00:00 AM	0	0	0	614321.9999	4822496	Z337855	A232548	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008281115	7358858	4/28/2020 12:00:00 AM	0	0	0	614269.0001	4822446	Z330326	A270915	PEEL	MISSISSAUGA CITY (PORT CREDIT)				7241	5-20-2020 12:00:00 AM			
1008371671	7363630	7/24/2020 12:00:00 AM	1.5	0	0	614300.0002	4823647	2QGO89A5	A283617	PEEL	MISSISSAUGA CITY (PORT CREDIT)	30 Queen St East	Mississauga		7609	8-7-2020 12:00:00 AM	Observation Wells	Monitoring	
1008433201	7365032	6/7/2020 12:00:00 AM	0	0	0	614043.9997	4822606	Z339707	A267994	PEEL	MISSISSAUGA CITY (PORT CREDIT)	62 Port Street West	Mississauga		7241	8-14-2020 12:00:00 AM	Abandoned-Other		
1008483091	7369144	8/25/2020 12:00:00 AM	0	0	0	614113	4822493	Z337307		PEEL	MISSISSAUGA CITY (PORT CREDIT)				7215	10-1-2020 12:00:00 AM			
1008490870	7371901	4/28/2020 12:00:00 AM	15.19999981	0	0	614300	4823666	S8J2AU54	A295534	PEEL	MISSISSAUGA CITY (PORT CREDIT)	1175 Hurontario St			7360	11-3-2020 12:00:00 AM	Observation Wells	Monitoring	
1008500944	7372843	10/13/2020 12:00:00 AM	4	0	0	612955.9996	4823245	6EOYI8HR	A289671	PEEL	MISSISSAUGA CITY (PORT CREDIT)	439 Temagami Crescent	Mississauga		7732	11-9-2020 12:00:00 AM	Observation Wells	Monitoring	

wsp.com



2D

Region of Peel

APPENDIX 2D

ARCHAEOLOGICAL ASSESSMENT REPORTS

ORIGINAL REPORT

Stage 1 Archaeological Assessment

Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule 'C' Environmental Assessment, Part of Lots A, 4, 5, and 6, Range 1 Credit River I.R., Lot C, Broken Front Concession, and Port Credit Town Plot, Township of Toronto, Peel County, now the City of Mississauga, Regional Municipality of Peel

Licensee: Rhiannon Fisher (P468)
PIF Number: P468-0081-2021

Submitted to:

GM BluePlan Engineering Limited

3300 Highway 7, Suite 402
Vaughan, Ontario L4K 4M3
Attn: Chris Campbell

Submitted by:

WSP Canada Inc.
6925 Century Avenue, Suite #100,
Mississauga, Ontario, L5N 7K2, Canada

+1 905 567 4444

19129019-R01

August 15, 2023

Ministry of Citizenship and Multiculturalism (MCM)

Archaeology Program Unit
Heritage Branch
Citizenship, Inclusion and Heritage Division
5th Floor, 400 University Ave.
Toronto ON M7A 2R9
Tel.: (416) 414-7787
Email: Jessica.Marr@ontario.ca

Ministère des Affaires civiques et du Multiculturalisme (MCM)

Unité des programme d'archéologie
Direction du patrimoine
Division de la citoyenneté, de l'inclusion et du patrimoine
5e étage, 400 ave. University
Toronto ON M7A 2R9
Tél. : (416) 414-7787
Email: Jessica.Marr@ontario.ca

Aug 21, 2023

Rhiannon Fisher (P468)
Golder Associates Ltd.
100 - 6925 Century Mississauga ON L5N7K2

RE: Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "Stage 1 Archaeological Assessment Port Credit East Wastewater Servicing Optimization Strategy Schedule 'C' Environmental Assessment, Part of Lots A, 4, 5, and 6, Range 1 Credit River I.R., Lot C, Broken Front Concession, and Port Credit Town Plot, Township of Toronto, Peel County, now the City of Mississauga, Municipality of Peel", Dated Aug 14, 2023, Filed with MCM Toronto Office on N/A, MCM Project Information Form Number P468-0081-2021, MCM File Number 0012043

Dear Ms. Fisher:

The above-mentioned report, which has been submitted to this ministry as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18, has been entered into the Ontario Public Register of Archaeological Reports without technical review.[1]

Please note that the ministry makes no representation or warranty as to the completeness, accuracy or quality of reports in the register.

Should you require further information, please do not hesitate to send your inquiry to Archaeology@Ontario.ca

cc. Archaeology Licensing Officer
Chris Campbell,GM Blue Plan Engineering Ltd
Approval Authority,Region of Peel

1*In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.*

Distribution List

1 PDF copy - GM BluePlan Engineering Limited

1 PDF copy - Ministry of Citizenship and Multiculturalism

1 PDF copy - WSP Canada Inc.

Executive Summary

The Executive Summary highlights key points from the report only; for complete information and findings, as well as the limitations, the reader should examine the complete report.

WSP Canada Inc. (WSP) was retained by GM BluePlan Engineering Limited (GM BluePlan) to conduct a Stage 1 Archaeological Assessment as part of a Schedule 'C' Municipal Class Environmental Assessment (EA) for the proposed Port Credit East Water and Wastewater Servicing Optimization Strategy (the Project).

Golder Associates Ltd. (Golder), now WSP Canada Inc., previously completed a Stage 1 Archaeological Assessment for the Project (Project Information Numbers [PIF] P468-0049-2020 & P468-0050-2020) which assessed the archaeological potential of an area which included the right-of-ways (ROW) of roads as well as the locations of the Rosemere, Elmwood, and Hiawatha sewage pumping stations (SPS) (Golder 2021). Following the Stage 1 Archaeological Assessment, GM BluePlan identified seven additional areas requiring Stage 1 Archaeological Assessment within the greater Project Area. These seven distinctive areas constitute the Study Area for this Stage 1 Archaeological Assessment, which is intended to supplement Golder's previous Stage 1 Archaeological Assessment. The Study Area is generally limited by Front Street in the south, Vernoca Drive and just east of Forest Avenue in the west, just south of Seneca Avenue to the north, and Lake Ontario to the east in the City of Mississauga (Maps 1 and 2). Study Area 1 is located within Lot C, Broken Front Concession and Port Credit Town Plot, within Tall Oaks Park. Study Area 2 is located at the intersection of Lakeshore Road and Elmwood Avenue North within Lot A, Range 1 Credit River I.R. Study Area 3 is located adjacent to the Port Credit Marine Harbour within Port Credit Town Plot. Study Area 4 is located adjacent to the Rosemere SPS and is within Lot 5 and 6, Range 1 Credit River I.R. Study Area 5 is located within the Harold E. Kennedy Park along Rosewood Avenue and is located within Lot A, Broken Front Concession and Port Credit Town Plot. Study Area 6 is located south of Mona Road and is located within Lot 4, Range 1 Credit River I.R. Study Area 7 is located at the corner of Front Street North and Lakeshore Road East. These seven distinctive areas encompass an area approximately 1.4 ha in size.

The objectives of the Stage 1 Archaeological Assessment were to compile available information about the known and potential cultural heritage resources within the Study Area and to provide specific direction for the protection, management and/or recovery of these resources. The Stage 1 Archaeological Assessment included a review of historical maps and aerial photographs, as well as relevant archaeological, historical, and environmental documentation. The Ministry of Citizenship and Multiculturalism (MCM) archaeological sites database was queried on October 13, 2021. Seventeen registered archaeological sites were identified within a 1 km radius of the overall Study Area, two of which are located within 300 m of Study Area 3 and two of which are located within 300 m of Study Area 4.

A site inspection was conducted on October 20, 2021, July 27, 2022, and May 2, 2023. Site inspections occurred over multiple years as the project area expanded. The archaeological potential of the Study Area was assessed based on the presence of features indicating archaeological potential as outlined in Section 1.3.1 of the *Standards and Guidelines for Consultant Archaeologists* (MCM 2011). Features indicating archaeological potential include proximity to previously identified archaeological sites, water sources, early transportation routes, early Euro-Canadian habitation as well as the presence of elevated topography, pockets of well-drained sandy soil, and distinctive land formations or resource areas. Based on the background information gathered for this Stage 1 Archaeological Assessment, it was determined that portions of the Study Area have archaeological potential due to their proximity to the early historic Euro-Canadian settlement of Port Credit, early historic Euro-Canadian transportation routes, water sources including Lake Ontario, the Credit River and other tributaries, and registered archaeological sites.

The Stage 1 Archaeological Assessment and property inspections found that portions of the Study Area exhibited potential for the recovery of pre- and post-contact Indigenous and Euro-Canadian historical archaeological resources. Based on the findings of the Stage 1 Archaeological Assessment, the following recommendations are made, as illustrated in Map 9.

1) Lands that have been previously subjected to Archaeological Assessment(s) and cleared by the MCM of further archaeological concern are recommended to be exempt from further Archaeological Assessment.

    a) The portion of Study Area 4 that consists of the Rosemere SPS was previously assessed and no further assessment was recommended for that area (ASI 2017; Map 9D).

    b) Study Area 7 has been previously assessed and no further assessment was recommended for that area (WSP 2018; Map 9G).

2) The Stage 1 Archaeological Assessment has determined there is potential for the identification of archaeological resources within portions of the Study Area:

    a) Study Area 1; Stage 2 test pit survey is recommended within a portion of the Study Area (Map 9A).

    b) Study Area 4; Stage 2 test pit survey is recommended within a portion of the Study Area (Map 9D).

    c) Study Area 6; Stage 2 test pit survey is recommended within a portion of the Study Area (Map 9F).

    Stage 2 test pit survey at 5 m intervals is recommended for these areas prior to ground disturbance activities in accordance with Section 2.1.2 of the MCM's *Standards and Guidelines for Consultant Archaeologists* (2011). Test pits should be 30 cm in diameter and hand excavated 5 cm into sterile subsoil. If artifacts are recovered their location should be recorded with a GPS unit and test pit intervals reduced to 2.5 m within 5 m of the positive test pit, as well as a 1 m test unit if necessary.

3) Areas of previous disturbance were identified in portions of the Study Area. These areas of disturbance include parking lots, sidewalks/paved public spaces, and landscape design areas (i.e. gardens, grass boulevards) or past disturbance documented in historical aerial photographs. The Stage 1 Archaeological Assessment property inspection determined there is low potential for the identification of archaeological resources in portions of the Study Area:

    a) Study Area 1; Low archaeological potential within portions of the Study Area; no further Archaeological Assessment is recommended for these areas (Map 9A).

    b) Study Area 2; Low archaeological potential within portions of the Study Area; no further Archaeological Assessment is recommended for these areas (Map 9B).

    c) Study Area 3; Low archaeological potential within Study Area; no further Archaeological Assessment is recommended (Map 9C).

    d) Study Area 4; Low archaeological potential within portions of the Study Area; no further Archaeological Assessment is recommended for these areas (Map 9D).

    e) Study Area 5; Low archaeological potential within the entire Study Area; no further Archaeological Assessment is recommended for these areas (Map 9E).

Despite efforts and due diligence, no Archaeological Assessment can necessarily account for potential archaeological resources. Should deeply buried archaeological resources be identified during ground disturbance activity associated with future development of the Study Area, ground disturbance activities shall be immediately halted, and the Archaeology Division of the Culture Programs Unit of the MCM notified.

The MCM is requested to review, and provide a letter indicating their satisfaction with the results and recommendations presented herein, with regard to the 2011 *Standards and Guidelines for Consultant Archaeologists* and the terms and conditions for archaeological licences, and to enter this report into the Ontario Public Register of Archaeological Reports.

Study Limitations

WSP Canada Inc. (WSP) has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the archaeological profession currently practicing under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty expressed or implied is made.

This report has been prepared for the specific site, design objective, developments and purpose described to WSP by GM BluePlan Engineering Limited (the Client). The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location.

The information, recommendations and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without WSP's express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the client, WSP may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to WSP. The report, all plans, data, drawings and other documents as well as all electronic media prepared by WSP are considered its professional work product and shall remain the copyright property of WSP, who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permission of WSP. The Client acknowledges the electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client cannot rely upon the electronic media versions of WSP's report or other work products.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project.

Special risks occur whenever archaeological investigations are applied to identify subsurface conditions and even a comprehensive investigation, sampling and testing program may fail to detect all or certain archaeological resources. The sampling strategies incorporated in this study comply with those identified in the MCM's *Standards and Guidelines for Consultant Archaeologists* (2011).

Project Personnel

Project Director	Heather Melcher, MSc, Director of Ecology, Ontario Earth and Environment
Project Manager	Kalena Lair, Environmental Assessment Specialist
Licensee	Rhiannon Fisher, MSc, RPA (P468), Lead Archaeologist
Report Preparation	Martha Tildesley, MA, RPA (P399), Archaeologist Randy Hahn, PhD (P1107), Archaeologist
Site Inspection	Martha Tildesley
Technical Review	Rhiannon Fisher
Senior Review	Jamie Lemon, MA, (P1056), Senior Archaeologist, Rhiannon Fisher
GIS/Mapping	Bojan Radojevic, GIS Analyst
Administration	Courtney Adey, Administrative Assistant

Abbreviations

OASD	Ontario Archaeological Site Database
CHVI	Cultural Heritage Value or Interest
m	Metre(s)
Golder	Golder Associates Ltd.
MCM	Ministry of Citizenship and Multiculturalism
ND	No Date
PIF	Project Information Form
SPS	Sewage Pumping Station
WSP	WSP Canada Inc.

Table of Contents

EXECUITVE SUMMARY ..... **ii**

1.0 PROJECT CONTEXT **1**

1.1 Development Context 1

1.1.1 Objectives 1

1.2 Historic Context 2

1.2.1 Regional Indigenous Pre-Contact History 2

1.2.2 Post-Contact Regional History 7

1.2.3 Toronto Township, Peel County 8

1.2.3.1 Missinnihe/Credit River 9

1.2.3.2 Port Credit 9

1.2.4 Study Area History 10

1.2.5 Study Area Environment 11

1.2.6 Previous Archaeological Assessments 11

1.2.7 Registered Archaeological Sites 12

1.2.8 Cultural Heritage Resources 14

2.0 FIELD METHODS **16**

3.0 ANALYSIS AND CONCLUSIONS **17**

3.1 Assessing Archaeological Potential 17

3.2 Archaeological Integrity 18

3.3 Potential for Archaeological Resources 18

4.0 RECOMMENDATIONS **20**

5.0 ADVICE ON COMPLIANCE WITH LEGISLATION **22**

6.0 REFERENCES **23**

7.0 IMAGES **28**

8.0 MAPS **53**

9.0 CLOSURE **63**

TABLES

Table 1: Overview of Cultural Chronology of Southern Ontario 2
Table 2: Registered Archaeological Sites within 1 km of the Study Area 13
Table 3: Known Cultural Heritage Resources within and within 300 m of the Study Area 14

IMAGES

Image 1: Landscaped garden beds within Study Area 1, facing east 28
Image 2: Landscaped garden beds within Study Area 1, facing northwest 28
Image 3: Landscaped garden beds within Study Area 1, facing southwest 29
Image 4: Paved walkway and garden beds within Study Area 1, facing east 29
Image 5: Sloped area leading up to the road within Study Area 1, facing northwest 30
Image 6: Looking toward the paved area and landscaped garden beds within Study Area 1, facing east 30
Image 7: Paved walkways and raised garden beds within Study Area 1, facing southwest 31
Image 8: Waterfront trail, paved walkway and sloped area within Study Area 1, facing northwest 31
Image 9: Areas of buried infrastructure with Study Area 1, facing east 32
Image 10: Sloped area from waterfront trail to road within Study Area 1, facing east 32
Image 11: Garden beds within Study Area 1, facing northeast 33
Image 12: Lookout pavilion with garden beds within Study Area 1, facing southeast 33
Image 13: Lookout pavilion and landscaping surrounding it within Study Area 1, facing south 34
Image 14: Landscaped area within Study Area 1, facing northeast 34
Image 15: Landscaped area between the waterfront and the trail within Study Area 1, facing west 35
Image 16: Sign located within Study Area 1 providing information about the industrial history of the waterfront, facing southeast 35
Image 17: Grassy area with landscaping next to the waterfront within Study Area 1, facing east 36
Image 18: Landscaped area near history sign within Study Area 1, looking southwest 36
Image 19: Rock retaining wall and garden beds along waterfront trail within Study Area 1, facing northeast 37
Image 20: Garden bed and rock retaining wall between waterfront and trail within Study Area 1, facing east 37
Image 21: Garden beds between trail and waterfront within Study Area 1, facing southeast 38
Image 22: Thick brush between trail and waterfront within Study Area 1, facing south 38
Image 23: Thick brush between rock retaining wall and trail within Study Area 1, facing southwest 39
Image 24: Sloped area leading up to roadway within Study Area 1, facing west 39
Image 25: Paved parking lot within Study Area 2, facing northeast 40

Image 26: Extent of parking lot within Study Area 2, facing southwest....40
Image 27: Extent of parking lot within Study Area 2, facing northeast....41
Image 28: Paved parking lot within Study Area 2, facing southwest....41
Image 29: Paved parking lot within Study Area 2, facing southwest....42
Image 30: Garden beds at entrance to Study Area 3, facing southwest....42
Image 31: Small landscape designed grass area within Study Area 3, facing north....43
Image 32: Small landscape designed grass area of parking lot within Study Area 3, facing southeast....43
Image 33: Small landscape designed grass area of parking lot within Study Area 3, facing northeast....44
Image 34: Paved parking lot within Study Area 3, facing northeast....44
Image 35: Paved parking lot within Study Area 3, facing northwest....45
Image 36: Paved parking lot within Study Area 3, facing north....45
Image 37: Paved parking lot within Study Area 3, facing west....46
Image 38: Paved walkway and gardens within Study Area 3, facing west....46
Image 39: Grassy area with slope up to road within Study Area 4, facing southwest....47
Image 40: Metal drainage pipe under roadway and emptying into Study Area 4, facing west....47
Image 41: Sloped area leading up to Stavebank Road within Study Area 4, facing southwest....48
Image 42: Rosemere SPS and slope down to creek within Study Area 4, facing northeast....48
Image 43: Small grassy area with slope to roadway within Study Area 4, facing southwest....49
Image 44: Sloped area down to Kenollie Creek within Study Area 4, facing southeast....49
Image 45: Sloped area down to Kenollie Creek within Study Area 4, facing northeast....50
Image 46: Sloped area down to Kenollie Creek within Study Area 4, facing east....50
Image 47: East side of Study Area 5, facing northeast.....51
Image 48: Study area 5 showing open park, facing north. This park dates to the 2010s and was previously developed land.....51
Image 49: Utilities on northwest corner of Study Area 5, view south.....52
Image 50: View northeast of Study Area 6 located south of Mona Road.....52

MAPS

Map 1: Study Area Location Plan 54
Map 2: Site Plan 55
Map 3: 1859 Tremaine's Map County of Peel 56
Map 4: 1877 Map of the Township of Toronto 57
Map 5: Aerial Photography 58
Map 6: Superficial Geology 59
Map 7: Previous Archaeological Assessments within 50 m of the Study Area 60
Map 8: Cultural Heritage Resources 61
Map 9: Archaeological Potential, Photo Locations and Recommendations 62

1.0 PROJECT CONTEXT

1.1 Development Context

WSP Canada Inc. was retained by GM BluePlan Engineering Limited (GM BluePlan) to conduct a Stage 1 Archaeological Assessment as part of a Schedule 'C' Municipal Class Environmental Assessment (EA) for the proposed Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule 'C' Class EA (the Project).

Golder Associates Ltd. (Golder), now WSP Canada Inc., previously completed a Stage 1 Archaeological Assessment for the Project (Project Information Number [PIF] P468-0049-2020 & P468-0050-2020) which assessed the archaeological potential of an area which included the right-of-ways (ROW) of roads as well as the locations of the Rosemere, Elmwood, and Hiawatha pumping stations (SPS). Following the Stage 1 Archaeological Assessment, GM BluePlan identified seven additional areas requiring Stage 1 Archaeological Assessment within the greater Project Area. These seven distinctive areas constitute the Study Area for this Stage 1 Archaeological Assessment, which is intended to supplement Golder's previous Stage 1 Archaeological Assessment. The Study Area is generally limited by Front Street in the south, Vernoca Drive and just east of Forest Avenue in the west, just south of Seneca Avenue to the north, and Lake Ontario to the east in the City of Mississauga (Maps 1 and 2). Study Area 1 is located within Lot C, Broken Front Concession and Port Credit Town Plot, within Tall Oaks Park. Study Area 2 is located at the intersection of Lakeshore Road and Elmwood Avenue North within Lot A, Range 1 Credit River I.R. Study Area 3 is located adjacent to the Port Credit Marine Harbour within Port Credit Town Plot. Study Area 4 is located adjacent to the Rosemere SPS and is within Lot 5 and 6, Range 1 Credit River I.R. Study Area 5 is located within the Harold E. Kennedy Park along Rosewood Avenue and is located within Lot A, Broken Front Concession and Port Credit Town Plot. Study Area 6 is located south of Mona Road and is located within Lot 4, Range 1 Credit River I.R. Study Area 7 is located at the corner of Front Street North and Lakeshore Road East. These seven distinctive areas encompass an area approximately 1.4 ha in size.

The Study Area consists of public spaces, so no permission was required to enter the Study Area.

1.1.1 Objectives

The objectives of the Stage 1 Archaeological Assessment were to compile available information about the known and potential cultural heritage resources within the Study Area and to provide specific direction for the protection, management and/or recovery of these resources. In compliance with the Provincial standards and guidelines set out in the *Standards and Guidelines for Consultant Archaeologists* (MCM 2011), the objectives of the Stage 1 Archaeological Assessment were:

- to provide information about the Study Area's geography, history, previous archaeological fieldwork and current land condition
- to evaluate in detail the Study Area's archaeological potential, which will support recommendations for Stage 2 survey for all or parts of the Study Area
- to recommend appropriate strategies for Stage 2 archaeological survey

To meet these objectives WSP archaeologists employed the following research strategies:

- review of relevant archaeological, historic, and environmental literature pertaining to the Study Area
- review of an updated listing of registered archaeological sites from the Ontario Archaeological Sites Database (OASD)

- review of previously completed Archaeological Assessments within or adjacent to the Study Area
- review of historical maps of the Study Area
- a property inspection

1.2 Historic Context

1.2.1 Regional Indigenous Pre-Contact History

The general culture history of southern Ontario based on Ellis and Ferris (1990), spanning the Pre-Contact Indigenous Period is summarised in Table 1.

Table 1: Overview of Cultural Chronology of Southern Ontario

Period		Time Period (circa)	Characteristics
Paleo	Early	10,950 – 10,350 BP	Gainey, Barnes and Crowfield traditions; Small bands; mobile hunters and gatherers and large territories; Fluted projectiles.
	Late	10,350 – 9950 BP	Holcomb, Hi-Lo and Lanceolate biface traditions; continuing mobility; Campsite/Way-Station sites; Smaller territories are utilized; Non-fluted projectiles.
Archaic	Early	9950 – 7950 BP	Side-notched, corner-notched, and bifurcate base traditions; growing diversity of stone tool types; heavy woodworking tools appear (e.g., ground stone axes and chisels).
	Middle	7950 – 4450 BP	Stemmed, Brewerton side- and corner-notched traditions; reliance on local resources; populations increasing; more ritual activities; fully ground and polished tools; netsinkers common; earliest copper tools.
	Late	4450 – 2900 BP	Narrow Point, Broad Point and Small Point traditions; less mobility; use of fish-weirs; more formal cemeteries appear; stone pipes emerge; long-distance trade.
Woodland	Early	2900 – 2350 BP	Meadowood tradition; cord-roughened ceramics emerge; Meadowood cache blades and side-notched points; bands of up to 35 people.
	Middle	2350 – 1400 BP	Saugeen, Point Peninsula and Couture traditions; stamped ceramics appear; Saugeen projectile points; cobble spall scrapers; seasonal settlements and resource utilization; post holes, hearths, middens, cemeteries, and rectangular structures identified.
	Transitional	1400 – 1050 BP	Princess Point tradition; cord roughening, impressed lines, and punctate designs on pottery; adoption of maize horticulture at the western end of Lake Ontario; oval houses and ‘incipient’ longhouses; first palisades; villages with up to 75 people.
	Early Late Woodland	1050 – 650 BP	Glen Meyer tradition; settled village-life based on agriculture; small villages (0.4 ha) with up to 75-200 people and 4-5 longhouses; semi-permanent settlements.
	Middle Late Woodland	650 – 550 BP	Uren and Middleport traditions; classic longhouses emerge; larger villages (1.2 ha) with up to 600 people; more permanent settlements (30 years).
	Late Woodland	550 – 350 BP	Larger villages (1.7 ha) with examples up to 5 ha and up to 2,500 people; extensive croplands; hamlets, cabins, camps, and cemeteries; potential tribal units; fur trade begins ca. 1580; European trade goods appear.

*(BP) Before Present Era dates are calculated using the year 1950 as the recognized start date of the present era.

Paleo Period

The first human occupation of southern Ontario begins just after the end of the Wisconsin Glacial Period. Although there were a complex series of ice retreats and advances which played a large role in shaping the local topography, south-central Ontario was finally ice free by 12,500 years ago.

The first human settlement can be traced back 11,000 years, when this area was settled by Indigenous groups that had been living south of the Great Lakes. The period of these early Indigenous inhabitants is known as the Paleo Period (Ellis and Deller 1990).

Our current understanding of settlement patterns of Early Paleo peoples suggests that small bands, consisting of probably no more than 25-35 individuals, followed a pattern of seasonal mobility extending over large territories. One of the most thoroughly studied of these groups followed a seasonal round that extended from as far south as Chatham to the Horseshoe Valley north of Barrie. Early Paleo sites tend to be located in elevated locations on well-drained loamy soils. Many of the known sites were located on former beach ridges associated with glacial lakes. There are a few extremely large Early Paleo sites, such as one located close to Parkhill, Ontario, which covered as much as six hectares. It appears that these sites were formed when the same general locations were occupied for short periods of time over the course of many years. Given their placement in locations conducive to the interception of migratory mammals such as caribou, it has been suggested that they may represent communal hunting camps. There are also smaller Early Paleo camps scattered throughout the interior of southwestern and south-central Ontario, usually situated adjacent to wetlands.

Research suggests that population densities were very low during the Early Paleo Period (Ellis and Deller 1990: 54). Archaeological examples of Early Paleo sites are rare.

The Late Paleo Period (10,350 – 9950 BP) has been less well researched and is consequently more poorly understood. By this time the environment of south-central Ontario was coming to be dominated by closed coniferous forests with some minor deciduous elements. It seems that many of the large game species that had been hunted in the early part of the Paleo Period had either moved further north, or as in the case of the mastodons and mammoths, became extinct.

Like the Early Paleo peoples, Late Paleo peoples covered large territories as they moved about in response to seasonal resource fluctuations. On a province wide basis Late Paleo projectile points are far more common than Early Paleo materials, suggesting a relative increase in population.

The end of the Late Paleo Period was heralded by numerous technological and cultural innovations that appeared throughout the Archaic Period. These innovations may be best explained in relation to the dynamic nature of the post-glacial environment and region-wide population increases.

Archaic Period

During the Early Archaic Period (9950 – 7950 BP), the jack and red pine forests that characterized the Late Paleo environment were replaced by forests dominated by white pine with some associated deciduous trees (Ellis et al.1990: 68-69). One of the more notable changes in the Early Archaic Period is the appearance of side and corner-notched projectile points. Other significant innovations include the introduction of ground stone tools such as celts and axes, suggesting the beginnings of a simple woodworking industry. The presence of these often large and not easily portable tools suggests there may have been some reduction in the degree of seasonal movement, although it is still suspected that population densities were quite low, and band territories large.

During the Middle Archaic Period (7950 – 4450 BP) the trend to more diverse toolkits continued, as the presence of net-sinkers suggest that fishing was becoming an important aspect of the subsistence economy. It was also at this time that "bannerstones" were first manufactured.

Bannerstones are carefully crafted ground stone devices that served as a counterbalance for atlatls or spear-throwers. Another characteristic of the Middle Archaic is an increased reliance on local, often poor-quality chert resources for the manufacturing of projectile points. It seems that during earlier periods, when groups occupied large territories, it was possible for them to visit a primary outcrop of high-quality chert at least once during their seasonal round. However, during the Middle Archaic, groups inhabited smaller territories that often did not encompass a source of high-quality raw material. In these instances, lower quality materials which had been deposited by the glaciers in the local till and river gravels were utilized.

This reduction in territory size was probably the result of gradual region-wide population growth which led to the infilling of the landscape. This process forced a reorganization of Indigenous subsistence practices, as more people had to be supported from the resources of a smaller area. During the latter part of the Middle Archaic, technological innovations such as fish weirs have been documented as well as stone tools especially designed for the preparation of wild plant foods.

It is also during the latter part of the Middle Archaic Period that long-distance trade routes began to develop, spanning the northeastern part of the continent. In particular, native copper tools manufactured from a source located northwest of Lake Superior were being widely traded (Ellis et al.1990: 66). By 5450 BP the local environment had stabilized in a near modern form (Ellis et al. 1990: 69).

During the Late Archaic (4450 – 2900 BP) the trend towards decreased territory size and a broadening subsistence base continued. Late Archaic sites are far more numerous than either Early or Middle Archaic sites, and it seems that the local population had definitely expanded. It is during the Late Archaic that the first formal cemeteries appear. Before this time individuals were interred close to the location where they died. During the Late Archaic, if an individual died while his or her group happened to be at some distance from their group cemetery, the bones would be kept until they could be placed in the cemetery. Consequently, it is not unusual to find disarticulated skeletons, or even skeletons lacking minor elements such as fingers, toes or ribs, in Late Archaic burial pits.

The appearance of formal cemeteries during the Late Archaic has been interpreted as a response to increased population densities and competition between local groups for access to resources. It is argued that cemeteries would have provided strong symbolic claims over a local territory and its resources. These cemeteries are often located on heights of well-drained sandy/gravel soils adjacent to major watercourses.

This suggestion of increased territoriality is also consistent with the regionalized variation present in Late Archaic projectile point styles. It was during the Late Archaic that distinct local styles of projectile points appear. Also, during the Late Archaic the trade networks which had been established during the Middle Archaic continued to flourish. Native copper from northern Ontario and marine shell artifacts from as far away as the Mid-Atlantic coast are frequently encountered as grave goods. Other artifacts such as polished stone pipes and banded slate gorgets also appear on Late Archaic sites. One of the more unusual and interesting of the Late Archaic artifacts is the birdstone. Birdstones are small, bird-like effigies usually manufactured from green banded slate.

Woodland Period

The Early Woodland Period (2900 – 2350 BP) is distinguished from the Late Archaic Period primarily by the addition of ceramic technology. While the introduction of pottery provides a useful demarcation point for archaeologists, it may have made less difference in the lives of the Early Woodland peoples. The first pots were thick walled and friable. It has been suggested that they were used in the processing of nut oils by boiling crushed nut fragments in water and skimming off the oil. These vessels were not easily portable, and individual pots must not have enjoyed a long use life. There have also been numerous Early Woodland sites located at which no pottery was found, suggesting that ceramic vessels had yet to assume a central position in the day-to-day lives of Early Woodland peoples.

Other than the introduction of this limited ceramic technology, the lifeways of Early Woodland peoples show a great deal of continuity with the preceding Late Archaic Period. For instance, birdstones continue to be manufactured, although the Early Woodland varieties have "pop-eyes" which protrude from the sides of their heads.

Likewise, the thin, well-made projectile points which were produced during the terminal part of the Archaic Period continue in use. However, the Early Woodland variants were side-notched rather than corner-notched, giving them a slightly altered and distinctive appearance.

The trade networks which were established in the Middle and Late Archaic also continued to function, although there does not appear to have been as much traffic in marine shell during the Early Woodland Period. During the last 200 years of the Early Woodland Period, projectile points manufactured from high quality raw materials from the American Midwest begin to appear on sites in southwestern Ontario.

In terms of settlement and subsistence patterns, the Middle Woodland (2350 – 1400 BP) provides a major point of departure from the Archaic and Early Woodland Periods. While Middle Woodland peoples still relied on hunting and gathering to meet their subsistence requirements, fish were becoming an even more important part of the diet.

In addition, Middle Woodland peoples relied much more extensively on ceramic technology. Middle Woodland vessels are often heavily decorated with hastily impressed designs covering the entire exterior surface and upper portion of the vessel interior. Consequently, even very small fragments of Middle Woodland vessels are easily identifiable.

It is also at the beginning of the Middle Woodland Period that rich, densely occupied sites appear along the margins of major rivers and lakes. While these areas had been utilized by earlier peoples, Middle Woodland sites are significantly different in that the same location was occupied off and on for as long as several hundred years and large deposits of artifacts often accumulated. Unlike earlier seasonally utilized locations, these Middle Woodland sites appear to have functioned as base camps, occupied off and on over the course of the year. There are also numerous small upland Middle Woodland sites, many of which can be interpreted as special purpose camps from which localized resource patches were exploited. This shift towards a greater degree of sedentism continues the trend witnessed from at least Middle Archaic times and provides a prelude to the developments that follow during the Late Woodland Period.

The Late Woodland Period began with a shift in settlement and subsistence patterns involving an increasing reliance on corn horticulture (Fox 1990: 185; Smith 1990; Williamson 1990: 312). Corn may have been introduced into southwestern Ontario from the American Midwest as early as 1500 BP or a few centuries before. Corn did not become a dietary staple, however, until at least three to four hundred years later, and then the cultivation of corn gradually spread into south-central and southeastern Ontario.

During the early Late Woodland, particularly within the Princess Point Complex (circa 1450 – 900 BP), a number of archaeological material changes have been noted: the appearance of triangular projectile point styles, first seen during this period begin with the Levanna form; cord-wrapped stick decorated ceramics using the paddle and anvil forming technique replace the mainly coil-manufactured and dentate stamped and pseudo-scallop shell impressed ceramics; and if not appearance, increasing use of maize (Zea mays) as a food source (e.g., Bursey 1995; Crawford et al. 1997; Ferris and Spence 1995: 103; Martin 2004 [2007]; Ritchie 1971: 31-32; Spence et al. 1990; Williamson 1990: 299).

The Late Woodland Period is widely accepted as the beginning of agricultural life ways in south-central Ontario. Researchers have suggested that a warming trend during this time may have encouraged the spread of maize into southern Ontario, providing a greater number of frost-free days (Stothers and Yarnell 1977). Further, shifts in the location of sites have also been identified with an emphasis on riverine, lacustrine and wetland occupations set against a more diffuse use of the landscape during the Middle Woodland (Dieterman 2001).

The first agricultural villages in southern Ontario date to the 10th century. Unlike the riverine base camps of the Middle Woodland Period, these sites are located in the uplands, on well-drained sandy soils. Village sites dating between 1050 – 650 BP share many attributes with the historically reported Late Woodland sites, including the presence of longhouses and sometimes palisades. However, these early longhouses were not all that large, averaging only 12.4 metres in length (Dodd et al. 1990: 349; Williamson 1990: 304-305). It is also quite common to find the outlines of overlapping house structures, suggesting that these villages were occupied long enough to necessitate re-building.

The Jesuits reported that the Huron moved their villages once every 10-15 years, when the nearby soils had been depleted by farming and conveniently collected firewood grew scarce (Pearce 2010). It seems likely that Early Late Woodland peoples occupied their villages for considerably longer, as they relied less heavily on corn than did later groups, and their villages were much smaller, placing less demand on nearby resources.

Judging by the presence of carbonized corn kernels and cob fragments recovered from sub-floor storage pits, agriculture was becoming a vital part of the Early Late Woodland economy. However, it had not reached the level of importance it would in the Middle Late and Late Woodland Periods. There is ample evidence to suggest that more traditional resources continued to be exploited and comprised a large part of the subsistence economy. Seasonally occupied special purpose sites relating to deer procurement, nut collection, and fishing activities, have all been identified. While beans are known to have been cultivated later in the Late Woodland Period, they have yet to be identified on Early Late Woodland sites.

The Middle Late Woodland Period (650 – 550 BP) witnessed several interesting developments in terms of settlement patterns and artifact assemblages. Changes in ceramic styles have been carefully documented, allowing the placement of sites in the first or second half of this 100-year period. Moreover, villages, which averaged approximately 0.6 ha in extent during the Early Late Woodland Period, now consistently range between 1 and 2 ha.

House lengths also change dramatically, more than doubling to an average of 30 m, while houses of up to 45 m have been documented. This increase in longhouse length has been variously interpreted. The simplest possibility is that increased house length is the result of a gradual, natural increase in population (Dodd et al. 1990: 323, 350, 357; Smith 1990). However, this does not account for the sudden shift in longhouse lengths around 650 BP. Other possible explanations involve changes in economic and socio-political organization (Dodd et al. 1990: 357).

One suggestion is that during the Middle Late Woodland Period small villages were amalgamating to form larger communities for mutual defense (Dodd et al. 1990, p. 357). If this was the case, the more successful military leaders may have been able to absorb some of the smaller family groups into their households, thereby requiring longer structures. This hypothesis draws support from the fact that some sites had up to seven rows of palisades, indicating at least an occasional need for strong defensive measures. There are, however, other Middle Late Woodland villages which had no palisades present (Dodd et al. 1990). More research is required to evaluate these competing interpretations.

The lay-out of houses within villages also changes dramatically by 650 BP. During the Early Late Woodland Period villages were haphazardly planned, with houses oriented in various directions. During the Middle Late Woodland Period villages are organized into two or more discrete groups of tightly spaced, parallel aligned, longhouses. It has been suggested that this change in village organization may indicate the initial development of the clans which were a characteristic of the historically known Iroquoian peoples (Dodd et al. 1990: 358).

Initially at least, the Late Late Woodland Period (550 – 350 BP) continues many of the trends which have been documented for the proceeding century. For instance, between 500 and 450 BP house lengths continue to grow, reaching an average length of 62 m. One longhouse excavated on a site southwest of Kitchener was an incredible

123 m (Lennox and Fitzgerald 1990: 444-445). After 450 BP, house lengths begin to decrease, with houses dating between 400 – 320 BP averaging 30 m in length.

Why house lengths decrease after 450 BP is poorly understood, although it is believed that the even shorter houses witnessed on historical period sites can be at least partially attributed to the population reductions associated with the introduction of European diseases such as smallpox (Lennox and Fitzgerald 1990:405, 410).

Village size also continues to expand throughout the Late Late Woodland Period, with many of the larger villages showing signs of periodic expansions. The latter part of the Middle Late Woodland Period and the first century of the Late Late Woodland Period was a time of village amalgamation. One large village situated just north of Toronto has been shown to have expanded on no fewer than five occasions. These large villages were often heavily defended with numerous rows of wooden palisades, suggesting that defence may have been one of the rationales for smaller groups banding together. Late Late Woodland village expansion has been clearly documented at several sites throughout southwestern and south-central Ontario. The excavations at the Lawson site, a large village located in southwestern Ontario, has shown that the original village was expanded by at least twenty percent to accommodate the construction of nine additional longhouses (Anderson 2009).

1.2.2 Post-Contact Regional History

Following European settlement in North America, the nature of Indigenous settlement size, population distribution, and material culture shifted as settlers began to colonize the land. Despite this shift in Indigenous life ways, “written accounts of material life and livelihood, the correlation of historically recorded villages to their archaeological manifestations, and the similarities of those sites to more ancient sites have revealed an antiquity to documented cultural expressions that confirms a deep historical continuity to Iroquoian systems of ideology and thought” (Ferris 2009, p. 114). As a result, Indigenous peoples of southern Ontario have left behind archaeologically significant resources throughout southern Ontario which show continuity with past peoples, even if this connection has not been recorded in historical Euro-Canadian documentation.

The Study Area is situated within the former Toronto Township, County of Peel, now City of Mississauga, Regional Municipality of Peel, Ontario. This geographic area was inhabited by the Mississauga First Nation at the time of initial Euro-Canadian contact. This nation subsequently ceded lands to Chief Joseph Brant and the Crown through four separate treaties from 1805 to 1820 (Morris 1943, pp. 22-25). The course and details of these events are summarized briefly below:

- *Treaty No. 13A (The First Purchase):* August 2, 1805 – This treaty comprises the fronts of the Townships of Toronto, Trafalgar and Nelson, except the 3,450 acres granted to Chief Joseph Brant in 1797. It includes 74,000 acres of land excluding a one-mile strip on each side of the Credit River from the waterfront to the base line (modern Eglinton Avenue), which was the Credit Indian Reserve (Heritage Mississauga 2009). It is described as follows (Morris 1943, p. 22):

  > *Commencing at the eastern bank of the mouth of the River Etobicoke, being in the limit of the western boundary line of the Toronto Purchase, in the year 1787; then north twenty-two degrees west, six miles; thence south 38 degrees west, twenty-six miles more or less, until it intersects a line on the course north 45 degrees west, produced from the outlet of Burlington Bay; then along the said produced line, one mile more or less to the lands granted to Captain Brant; then north 45 degrees east, one mile and a half; then south 45 degrees east, three miles and a half more or less to Lake Ontario; then north easterly along the waters edge of Lake Ontario to the eastern bank of the River Etobicoke being the place of beginning.*

- *Treaty No. 19 (The Second Purchase)*: October 28, 1818 – An agreement reached by the Principal Men of the Mississauga Nation of Indians, inhabiting the River Credit, and Twelve- and Sixteen-Mile Creeks on the north Shore of Lake Ontario. Over 600,000 acres of land, representing most of what is known today as the Region of Peel, were surrendered (Heritage Mississauga 2009). The tract of land was described as follows (Morris 1943: 24):

  > *A tract of land in the Home District called the Mississague Tract, bounded southerly by the purchase made in 1806; on the east by the Townships of Etobicoke, Vaughan and King; on the south west by the Indian Purchase, extending from the outlet of Burlington Bay, north forty-five degrees west, fifty miles; and from thence north seventy-four degrees east or thereabouts, to the north west angle of the Township of King.*

- *Treaty No. 22*: February 28, 1820 – ". . . the Principal Chiefs, Warriors and People of the Mississauga Nation transferred to His Majesty George the Third for the sum of 20 shillings, parts of those tracts of land at Credit River, Sixteen Mile Creek and Twelve Mile Creek, formerly reserved in Treaty 13A . . ." (Morris 1943: 25).

- *Treaty No. 23*: February 28, 1820 – "… the Principal chiefs, Warriors and People of the Mississauga Nation, transferred to His Majesty George the Third for the sum of 50 pounds, parts of those tracts of land at Credit River, Sixteen Mile Creek, and Twelve Mile Creek, formerly reserved in 13A . . ." (Morris 1943: 25).

By 1821, the Mississauga First Nation had surrendered most of the Credit Indian Reserve lands set aside in 1805 in the final two "Credit Treaties." In 1847, the remaining members of the Mississaugas relocated to the New Credit Reserve (now Mississaugas of the Credit First Nation) in Hagersville (Heritage Mississauga 2009). The geographic area now known as the City of Mississauga has since been farmed, settled and developed by families and communities of European descent.

1.2.3 Toronto Township, Peel County

Toronto Township was established during the "Old Survey" of 1806 following the signing of Treaty 13A (Heritage Mississauga 2009); this survey established the southern half of the township (Riendeau 1985: 23). Just over a decade later, after the signing of Treaty 19, the "New Survey" of the area, which occurred in 1819, divided the acquired lands into the Townships of Toronto, Chinguacousy, Caledon, Albion and Toronto Gore (Heritage Mississauga 2009); this survey established the northern half of the Township (Riendeau 1985: 23). Toronto Township was incorporated in 1850 as a primarily rural society (City of Mississauga 2004).

Peel County and its townships were originally settled by British soldiers and their families, many of whom served with the Queen's Rangers, during the late 18th century and into the early 19th century (Bull 1935).
As the number of farmsteads and homesteads within the county grew, several villages and communities were established. Those that thrived into the 20th century and were amalgamated into the City of Mississauga in 1974 include: Clarkson, Cooksville, Dixie, Erindale, Malton, Meadowvale, Port Credit and Streetsville (Heritage Mississauga 2009). These villages assisted in the processing of local natural resources including lumber, grain and other farm products (City of Mississauga 2004). Port Credit, Streetsville and Meadowvale thrived early on given their location on the Credit River, a transportation route and the site of several lumber and grist mills (City of Mississauga 2004).

With the establishment of military headquarters at York, there was a need to develop and maintain reliable ground transportation routes for provisioning both soldiers and supplies throughout Upper Canada. Dundas Street was the first major "highway" constructed in the region, by military engineers (Bull 1935). This main transportation route was subsequently used by various Loyalist settlers following the surveying and establishment of new townships and communities. The existing forests were cut down for the growing of crops and the raising of livestock.

The arrangement of people within Toronto Township changed once again in the mid-19th century with the establishment of the railways. This influenced the development of southern villages including Clarkson and Lorne Park which were affiliated with the Great Western Railway and northern villages such as Malton, which was affiliated with the Grand Trunk Railway (City of Mississauga 2004).

1.2.3.1 Missinnihe/Credit River

The water source known as present-day Credit River was named Missinnihe ("trusting creek") by the Mississaugas. The Mississaugas used the river and its surrounding area for hunting, fishing, gathering, healing, and spiritual purposes (MNCFN 2018). A trading post was established at the mouth of the river by the French in the 18th century, which enabled the trade of pelts gathered over the winter for European goods.

The Missinnihe was renamed the Rivière au Crédit by the French, which translated to Credit River, and referred to the traders' practice of extending credit to the Mississaugas in the fall and then being repaid the following spring with the winter's catch of furs. The Mississaugas located at the western end of the lake became known to the Europeans as the Mississaugas of the Credit.

1.2.3.2 Port Credit

Old Port Credit Village was first formally surveyed in 1834, and the first sale of lots being held at a public auction in Toronto in 1835 (Smith 1846: 148). By 1842, a post office was established in the village, at which time the name of the community "officially" became Port Credit. The name had been in use since at least 1835, or slightly before that time (Walton 1837; Rayburn 1997: 276; Scott 1997: 182).

Plans for a formal harbour at Port Credit date back to March 1828, when an act was passed by the government of Upper Canada for the construction of a harbour at the nearby Sixteen Mile Creek in Oakville (9 Geo. IV c. 19). Further legislation was passed in March 1834, which incorporated the "Credit Harbour Company" as a joint-stock company, and provided for a loan to assist with the work then in progress. The work of improving the harbour was undertaken at an estimated cost of £2,500. The Mississaugas acquired a 2/3 interest in this company. Work on the harbour was contracted to E.W. Thomson, and harbour tolls were collected to recoup the investment (Smith 1851: 276; Smith 1987: 157; Robb 2003 9).

During the mid-1840s, a large quantity of farm produce and timber was shipped from Port Credit. The primary goods shipped from Port Credit in 1844 included: wheat, flour, pork, ashes, whiskey, timothy seed, wool, lumber, and oak and pine "squared timber." As late as 1876, it was recorded that Clarkson and Chisholm bought and shipped 100,000 bushels of wheat from the harbour at Port Credit (Smith 1846: 149; Kirkwood 1967: 257). The population at this time reached 150, and the village had a Methodist church, blacksmith shop, schoolhouse, post office, and other small businesses.

Shipbuilding is said to have been carried on at the mouth of the Credit as early as 1809, but it became a major industry there by the 1840s. Five schooners "of a good class" were then owned by local merchants and businessmen. The community was linked by steamer service to Toronto and Hamilton in the period before the advent of the railways (Smith 1846: 149; Gibson 2002: 180).

By 1851, the population of the village had increased to about 200 inhabitants. It was described as the "shipping place for a large extent of fertile and well-cultivated country" (Smith 1851:276). In 1857, the population of Port Credit had reached 400 inhabitants, and many of the families were connected to the shipbuilding trade. The introduction of the Great Western Railway (GWR) to the area aided communication and travel from Port Credit to both Toronto and Hamilton, however, it also diverted a portion of the shipping activity away from the harbour (Riendeau 1985). The Port Credit rail station was opened in December 1855, near Stavebank Road. (Clarkson

1967). In 1855, the harbour suffered from a fire, causing the shipping activity to be further affected. By the mid-1860s, the population decreased to 350.

The harbour in 1851 was still bordered “by a considerable breadth of marsh” (Smith 1851:276). At that time, a new bridge was under construction. It was considered a necessary work, “the old bridge having been for years in a dangerous state” (Smith 1851: 276). The first wooden bridge at the mouth of the Credit was built in 1820. It was replaced by a second structure of timber truss construction, erected in 1832 at a cost of £50 by local merchants Chisholm and Gamble. This bridge was damaged in a flood in 1850 and replaced by another wooden one that was under construction in 1851. It stood until September 1895, when it was washed away in a storm and later replaced by an “iron bridge”. This bridge was replaced by concrete, bow-string structure in 1919. The concrete bridge is known to have remained in use until at least 1949, but it had been replaced by a more modern, four-lane, concrete structure in 1960-61 (Kirkwood 1967: 257; Gibson 2002: 181; Robb 2003: 23; Hicks 2007: xxxiv-xxxv).

During the 1850s, the “Lake Road” was purchased by the Toronto Road Company, which collected tolls and was responsible for its maintenance. Between 1914 and 1917, Lakeshore Road was cemented under the supervision of the Toronto-Hamilton Highway Commission. It became known as Highway 2 upon the completion of the work on the entire length of this road in 1922 (Gibson 2002: 188; Hicks 2007: xxviii).

By the close of the 19th century, the St. Lawrence Starch Company had located here, as well as a few brickyards. During the 20th century, a few oil refineries also located in the area which provided additional employment opportunities for the village.

By 1900, the population had increased to 650, making Port Credit the largest village in Toronto Township (Riendeau 1985). In 1909, Port Credit became a Police Village as its population had reached 750 residents, and by 1914, Port Credit incorporated as a Village. By 1945, the population of the village had reached 2,325, and it was elevated to a town by an act of the Provincial legislature in 1961. At that time, its population had increased by over 6,500. It was annexed to the City of Mississauga in 1974 (Kirkwood 1967: 258; Rayburn 1997: 276; Gibson 2002: 188; Robb 2003: 17).

1.2.4 Study Area History

A review of the 1859 Historical County Map of Peel County (Tremaine 1859) (Map 3) identifies the Study Areas in relation to the Port Credit Town Plot. A railway is located adjacent to Study Area 4 while Study Areas 2 and 5 are adjacent to two historical roads. Study area 7, is located adjacent to a historical road on the west bank of the Credit River. In 1859, five of the Study Areas are located within lands owned by Robert Cotton and R. & J. Cotton, while Study Areas 3 and 7 resides within the Town Plot. Robert Cotton owned the lands west of the railway where Study Areas 4 and 6 are situated (Tremaine 1859). R. & J. Cotton is listed as the owner for the lands located adjacent to Lake Ontario where Study Areas 1, 2 and 5 are situated. Study Area 2 is located within lands also owned by Robert Cotton.

The 1877 Map of the Township of Toronto (Walker & Miles 1877) (Map 4) shows Study Area 1 to reside within the lands of Robert Cotton Esq. while Study Areas 2, 4, 5 and 6 reside within the lands of James W. Cotton, who is shown to own the land to the west of the railway. Study Areas 3 and 7 resides in the Town Plot. Study Areas 5 and 6 is shown within 300 m of creeks.

Robert Cotton emigrated from Ireland to Canada in 1837 where he became a well-known merchant and farmer in Toronto Township (Canadian Historic Places ND). Cotton held several offices in the community including the Justice of Peace in 1850. Cotton purchased land on the west side of Old River Road and had a house built in 1856 (Canadian Historic Places ND). Upon his death in 1885, Robert Cotton transferred the Cotton Homestead to James W. Cotton, his brother. James worked alongside Robert as a postmaster, storemaster and was the owner of a Wharf. The Cotton brothers are considered to be the “Fathers” of Port Credit (Canadian Historic Places ND).

Aerial photographs (Map 5) show the history of the development of the Study Area from the mid-20th century onward. In 1954, the Study Area is located within commercial and residential areas, undeveloped parkland and agricultural fields. Study Area 5 appears to have been the location of a building and parking lot. By 1966, the mouth of the Credit River has been substantially altered by the construction of the Port Credit Harbour Marina. Study Area 1, which is west of the Elmwood SPS, within the present Tall Oaks Park, appears to have been redeveloped from industrial to residential and parkland during the late 1990s. Study Area 2, a parking lot along Lakeshore Blvd, and Study Area 3, a parking lot west of the Port Credit Marine Harbour, appear to have been paved over after 1986. Study Areas 4 and 6, which is adjacent to the Rosemere SPS shows no significant landscape alterations other than the construction of the station. Study Area 5 saw further development between 1966 and the 2010s until it was turned into its current park conditions. Due to the substantial development during the 20th century, Study Area 5 is entirely disturbed. Study Area 7 is shown as in the Port Credit River in 1954 which suggests the area may have been infilled sometime before 1966.

1.2.5 Study Area Environment

The Study Areas are located within the City of Mississauga on the north shore of Lake Ontario. They are situated within the Iroquois Plain physiography region which extends from the western part of Lake Ontario to the Trent River (Chapman and Putnam 1984: 190). The Iroquois Plain physiography region was formed during the last Glaciation when the region was covered by a water body known as Lake Iroquois. Its width varies from several hundred meters up to 13 km. This plain is the remnant shoreline of glacial Lake Iroquois and was smoothed over time by wave action and lacustrine deposits. Now this physiographic region is composed of a thin veneer of glacio-lacustrine sand and silty sand. These sandy soils once supported forests, savannahs, and prairies, populated by species of the Carolinian Ecoregion at close to their northern extent. The Iroquois Plain was a general farming area, with a tendency for horticulture and growth of canning crops. Since World War II, the remaining farms have become larger while much of the land has been put to urban uses.

The surficial geology consists of interbedded flow till and modern alluvial deposits in Study Area 1, interbedded flow till entirely within Study Area 2, both foreshore basin deposits and modern alluvial deposits in Study Area 3, foreshore basin deposits entirely within Study Area 4, and a mix of modern alluvial and foreshore-basinal deposits in Study Area 5 (Map 6). Study Area 6 consists of foreshore basinal deposits and Study Area 7 consists of mostly modern alluvial deposits.

1.2.6 Previous Archaeological Assessments

Several Archaeological Assessments have previously been conducted within 50 m of the Study Area (Map 7).

In 2008, Archeoworks Inc. completed a Stage 1 Archaeological Assessment for the proposed Hurontario High Order Transit Development in the cities of Brampton and Mississauga (2010). This Archaeological Assessment determined portions of the project limits to have archaeological potential and the remainder to have low to no archaeological potential. Areas of archaeological potential were recommended to be subjected to a Stage 2 Archaeological Assessment. The southern portion of Archeoworks' Stage 1 Archaeological Assessment project limits are located immediately adjacent to the western limits of Study Area 3.

ASI undertook a Stage 1 Archaeological Assessment for the proposed redevelopment of 31 Lakeshore Road East, part of Harbour Company Plot Plan PC-2 (Port Credit), in the City of Mississauga (2012). This Archaeological Assessment determined the project limits to have no archaeological potential and recommended the project area to be free of further archaeological concern, with the provision that the appropriate authorities must be notified if deeply buried archaeological deposits or human remains are encountered. The southern portion of ASI's Stage 1 Archaeological Assessment limits is located approximately 50 m northwest of Study Area 3.

ASI conducted Stage 1 and 2 Archaeological Assessment along Mona Road which resulted in the discovery of AjGv-83, an Archaic and Woodland campsite (ASI 2016a; 2016b). The site was mitigated through Stage 3 and 4 Archaeological Assessment and was fully documented and excavated under the *Standards and Guidelines for Consultant Archaeologists* (MCM 2011) and has no further cultural heritage value or interest (ASI 2016c; 2016d). The Stage 1 to 4 Archaeological Assessments took place approximately 50 m northeast of Study Area 4.

In 2017, ASI (2017) undertook a Stage 1 Archaeological Assessment for three SPS upgrades, one of which was the Rosemere SPS. Portions of the Rosemere Road Study Area assessed by ASI were identified as having archaeological potential and recommended for Stage 2 Archaeological Assessment. The Stage 2 Archaeological Assessment found the entire Rosemere SPS Study Area was disturbed and made the following recommendations (ASI 2018:i)

1) *The Study Area for the Mississauga Sewage Pumping Station Upgrades, including the Rosemere Road, Indian Road, and Silver Birch Trail sewage pumping stations, has been fully documented, and no further archaeological assessment is required on these lands; and*

2) *Should the proposed work extend beyond the current Study Area, further archaeological assessment must be conducted to determine the archaeological potential of the surrounding lands.*

The Stage 1 and 2 Archaeological Assessment completed by ASI overlaps with the eastern portion of Study Area 4.

In 2018, 4Transit, a joint venture of Hatch, Parsons, and WSP, conducted a Stage 1 Archaeological Assessment as part of the Building Rehab & Elevator Replacement – Port Credit and Port Credit GO Station Parking Structure Joint Development (2018). The Stage 1 Archaeological Assessment determined parts of the project area to have archaeological potential requiring a Stage 2 Archaeological Assessment. The western limits of the area assessed as part of the Stage 1 Archaeological Assessment is located approximately 17 m southeast of Study Area 4.

Between 2017 and2018, WSP (2017; 2018) conducted a Stage 1 and 2 archaeological assessment for a diversion sewer along Front Street. This assessment included the lands encompassed by Study Area 7 which was subject to test pit survey at 5 m intervals and determined to be entirely disturbed. WSP (2018) made the following recommendation:

1) *The Stage 2 test pit survey yielded archaeological materials and modern materials from a clearly disturbed context within Port Credit Memorial Park. No further archaeological assessment is recommended.*

In 2021, Golder Associates conducted a supplemental Stage 1 Archaeological Assessment as part of a Schedule ‘C’ Municipal Class Environmental Assessment for the proposed Port Credit East Water and Wastewater Servicing Optimization Strategy(Golder 2021). The Stage 1 Archaeological Assessment determined parts of the Study Area to have archaeological potential requiring a Stage 2 Archaeological Assessment.

1.2.7 Registered Archaeological Sites

The primary source of information regarding known archaeological sites in the vicinity of the Study Area was the OASD. The OASD was consulted on October 13, 2021, and it was determined that there are 17 registered archaeological sites located within 1 km of the greater Study Area (Table 2). Four archaeological sites are located within 300 m of the Study Area; two of which are within 300 m of Study Area 3 and two of which are within 300 m of Study Area 4.

Table 2: Registered Archaeological Sites within 1 km of the Study Area

Borden Number	Name	Time Period	Cultural Affiliation	Site Type	Current Development Review Status	Study Area within 1 km
AjGv-1**	Hare	Pre-Contact	Archaic, Woodland, Middle	Campsite	Further CHVI	3, 4, 5, 6, 7
AjGv-4	Stillmeadow	Pre-Contact	Woodland	Camp/campsite	Further CHVI	4, 6
AjGv-5	Glenburny	Pre-Contact	Indigenous	Campsite	No further CHVI	4, 5, 6, 7
AjGv-8	Eley	Pre-Contact	Archaic	Campsite	Further CHVI	2, 5, 6
AjGv-9	Avonbridge	Pre-Contact	Archaic	Campsite	No further CHVI	1, 5, 6, 7
AjGv-10	Stavebank	–	–	–	No further CHVI	4, 6, 7
AjGv-11***	Port Street	–	–	–	No further CHVI	1, 3, 4, 5, 6, 7
AjGv-12	Pinewood Trail	–	–	–	–	5, 6
AjGv-13*,***	Fort Toronto	Post-Contact	Mississauga	Village	No further CHVI	1, 2, 3, 4, 5, 7
AjGv-32	Scott-O'Brien	Pre-Contact	Archaic, Middle, Woodland, Early, Woodland, Middle	–	–	4, 6, 7
AjGv-39	Adamson Estate	Post-Contact	Euro-Canadian	Homestead, other buildings	Further CHVI	1, 2, 5
AjGv-46	–	Pre-Contact	Indigenous	Findspot	–	6
AjGv-47	–	Pre-Contact	Indigenous	Findspot	–	6
AjGv-48	–	Pre-Contact	Indigenous	Findspot	–	6
AjGv-50	Atoka	Pre-Contact	Woodland, Early Woodland, Middle	Scatter	–	6
AjGv-57	Rewa	Pre-Contact	Woodland, Middle	Burial	Further CHVI	4, 6, 7
AjGv-71*, ***	James Taylor	Post-Contact	Euro-Canadian	Warehouse	Further CHVI	1, 2, 3, 4, 5, 6, 7
AjGv-73	AjGv-73	Pre-Contact	Woodland, Middle	Scatter	Further CHVI	4, 6, 7
AjGv-74	AjGv-74	Pre-Contact	Woodland	Short term	Further CHVI	4, 6
AjGv-75	AjGv-75	Pre-Contact	Indigenous	Scatter	No further CHVI	4, 6
AjGv-83**	AjGv-083	Pre-Contact	Archaic, Late Archaic, Middle, Woodland	Camp/campsite	Further CHVI	1, 2, 3, 4, 5, 7
AjGv-84	Kane	Post-Contact	Woodland	Unknown	Further CHVI	4, 6, 7

– *denotes information was not available on the OASD*
* *denotes site within 300 m of Study Area 3*
** *denotes site within 300 m of Study Area 4*
*** *denotes site within 300 m of Study Area 7*

AjGv-1 (Hare) was identified as a pre-contact Indigenous campsite in 1971. The site is located on the bank of the Credit River and has been dated to the Archaic (Laurentian) and Middle Woodland periods. AjGv-1 (Hare) consists of an unknown amount of ceramic material and lithics. It was believed to have been destroyed by development. However, a further investigation by York University found evidence of ceramic material and lithics which proves the site is not destroyed and retains some cultural heritage value or interest. The site is located approximately 200 m west of Study Area 4.

AjGv-13 (Fort Toronto) was identified in 1971 and is located at the mouth of the Credit River, along the west bank. AjGv-13 (Fort Toronto) is identified as a Post-Contact Indigenous village and according to the site form the site has been destroyed by development. The current status of the site is unknown, but it is presumed no further archaeological work has been conducted since the 1971 investigations as there are no records of further stages of work, nor are there are licensee recommendations or corresponding reports associated with the site form. The site is located approximately 195 m southwest of Study Area 3.

AjGv-71 (James Taylor) is a Post-Contact historical site identified through Stage 2 mechanical trench excavation in 2010 by ASI and is located within Marina Park in Mississauga, under a parking lot. The site consists of a small scatter of Post-Contact Euro-Canadian artifacts recovered in an area 30 m by 20 m. The site was then subjected to Stage 3 test trenching under PIF no. P372-0083-2020. The Stage 3 test trenching in 2020 resulted in the recovery of seven additional artifacts and the site was dated to the early to mid-19th century. AjGv-71 (James Taylor) has been recommended by ASI for Stage 4 long term protection as it has further cultural heritage value or interest. The site is located approximately 220 m southwest of Study Area 3, however is located on the other side of the Credit River.

AjGv-83 was identified through Stage 2 test pit survey in 2016 by ASI under PIF no. P046-0158-2016. The site consisted of Indigenous artifacts within an area measuring 5 m by 2 m. The site was subjected to Stage 3 test unit excavation under PIF no. P223-0103-2016 and resulted in the recovery of 61 artifacts in an area measuring 20 m by 15 m. The site was recommended for Stage 4 archaeological mitigation, which was also completed in 2016 and which resulted in an additional 832 artifacts being recovered in an area measuring 40 m by 40 m. Based on the features uncovered and the artifacts recovered, AjGv-83 is identified as Middle to Late Archaic and Woodland campsite. While the site within the project area underwent full mitigation under PIF no. P223-0107-2016, it was noted in the site record that the MCM concluded the site may extend beyond the subject property ASI investigated and therefore may still have further cultural heritage value or interest. The site is located approximately 100 m north of Study Area 4.

1.2.8 Cultural Heritage Resources

According to the City of Mississauga's *Heritage Designation Properties* gallery (2020), the City of Mississauga's *Heritage Register* (2018), the City of Mississauga's *Cultural Heritage Landscape Inventory* (2005), the City of Mississauga's *Cultural Heritage Landscape Project* (ND), and re-utilizing research from a Stage 1 report obtained during a consultation with heritage planning staff at the City of Mississauga, four protected heritage properties designated under Part IV of the *Ontario Heritage Act*, and three cultural heritage landscapes listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* are within and within 300 m the Study Area (Table 3; Map 8). Per Section 1.3 and 1.4 of the *Standards and Guidelines for Consultant Archaeologists* (MCM 2011), property listed on a municipal register or designated under the *Ontario Heritage Act* or that is a federal, provincial, or municipal historic landmark or site is indicative of archaeological potential.

Table 3: Known Cultural Heritage Resources within and within 300 m of the Study Area

Civic Address or Location	Description	Cultural Heritage Status	Study Area within or within 300 m
40 Stavebank Road	Port Credit Memorial Arena, constructed 1959	Protected heritage property designated under Part IV of the *OHA* (By-law 261-2011)	4
29 Stavebank Road North	Cenotaph Park, Cenotaph constructed in 1925	Protected heritage property designated under Part IV of the *OHA* (By-law 118-84)	4

Civic Address or Location	Description	Cultural Heritage Status	Study Area within or within 300 m
90 High Street East	William Thomas Gray House, constructed in 1909, John Francis Brown (architect)	Protected heritage property designated under Part IV of the *OHA* (By-law 385-2005)	1, 2, 5
Old Port Credit	Located west of the Credit River and straddling Lakeshore Road	Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes*	3,4, 5, 7
Port Credit Harbour	Located in Port Credit at the Mouth of the Credit River	Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes*	3, 7
141 Lakeshore Road East	St. Lawrence Starch Limited Administration Building, constructed in 1932	Protected heritage property designated under Part IV of the *OHA* (By-law 446-93)	1, 2, 5
Mineola Neighbourhood	Located north of Lakeshore Road bounded by the Credit River on the west and Hurontario on the east	Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes*	4

2.0 FIELD METHODS

A visual inspection of the Study Areas was completed by Martha Tildesley, M.A. (P399) and Rhiannon Fisher, M.Sc. on October 20, 2021, July 27, 2022, and May 2, 2023 under PIF P468-0081-2021 issued to Rhiannon Fisher, M.Sc. (P468). The weather was conducive for assessing the archaeological potential. On October 20, 2021, the weather was sunny and warm with a high of 20 degrees Celsius. On July 27, 2022, the weather was sunny with a high of 27 degrees Celsius. On May 2, 2023, the weather was partly cloudy with a high of 11 degrees Celsius. The Study Areas consists of public spaces, so no permission was required to enter the Study Areas. The results of the visual inspection and the locations of photographs taken are shown in Map 9.

Study Area 1 is located within the southwestern portion of Tall Oaks Park along the waterfront of Lake Ontario. It consists of garden boxes, waterfront trails, paved lookout areas, and large green spaces (Images 1-24, pp. 29-40). The southern portion of the park slopes down toward the waterfront, but the remaining area is flat. While background research suggests that portions of the park were impacted during redevelopment of the surrounding area from an industrial area to residential neighbourhoods, portions of the park appear to be relatively undisturbed.

Study Area 2 is located within a commercial area along Lakeshore Road East and is currently a paved parking lot (Images 25-29, pp. 41-43).

Study Area 3 is located west of the Port Credit Harbour Marina and is currently a paved parking lot with small landscape design areas (i.e., gardens, manicured lawn boulevards) (Images 30-38, pp. 43-47).

Study Area 4 is located southwest of the Rosemere SPS and adjacent to Kenollie Creek, a tributary of the Credit River. The Study Area consists of grassland, and slopes down toward the creek and slopes up to both Rosemere Road and Stavebank Road (Images 39-46, pp. 48-51). There is also a metal drainage pipe that empties into the Study Area (Image 40, p. 48). The Rosemere SPS and the ROW of Rosemere Road have been previously assessed and recommended for no additional Archaeological Assessment (ASI 2018; Golder 2021). A small portion of the area appears to be relatively undisturbed.

Study Area 5 is located within Harold E. Kennedy Park which is located along Rosewood Avenue. The study area currently consists of open park with some disturbance from a walkway and utilities (Images 47-49, pp. 52-53). Background research indicates this area was developed until the early 2010s and current conditions are recent.

Study Area 6 is located south of Mona Road and Sandham Road. The study area consists of a flat road right-of-way located at the top of a slope (Image 50, p. 53).

Study Area 7 was identified as entirely previously assessed and required no additional site inspection.

3.0 ANALYSIS AND CONCLUSIONS

3.1 Assessing Archaeological Potential

Archaeological potential is established by determining the likelihood that archaeological resources may be present on a subject property. In accordance with the MCM's 2011 *Standards and Guidelines for Consultant Archaeologists* the following are features or characteristics that indicate archaeological potential:

- Previously identified archaeological sites;
- Water sources:
  - Primary water sources (lakes, rivers, streams, creeks);
  - Secondary water sources (intermittent streams and creeks; springs; marshes; swamps);
  - Features indicating past water sources (e.g. glacial lake shorelines indicated by the presence of raised gravel, sand, or beach ridges; relic river or stream channels indicated by clear dip or swale in the topography; shorelines of drained lakes or marshes; and cobble beaches);
  - Accessible or inaccessible shoreline (e.g. high bluffs, swamps or marsh fields by the edge of a lake; sandbars stretching into marsh);
- Elevated topography (eskers, drumlins, large knolls, plateaux);
- Pockets of well drained sandy soil, especially near areas of heavy soil or rocky ground; Distinctive land formations that might have been special or spiritual places, such as waterfalls, rock outcrops, caverns, mounds, and promontories and their bases (there may be physical indicators of their use, such as burials, structures, offerings, rock paintings or carvings);
- Resource areas including:
  - Food or medicinal plants;
  - Scarce raw minerals (e.g. quartz, copper, ochre or outcrops of chert);
  - Early Euro-Canadian industry (fur trade, mining, logging);
- Areas of Euro-Canadian settlement; and,
- Early historical transportation routes.

In recommending a Stage 2 property survey based on determining archaeological potential for a Study Area, the MCM stipulates the following:

- No areas within 300 m of a previously identified site; water sources; areas of early Euro-Canadian Settlement; or locations identified through local knowledge or informants can be recommended for exemption from further assessment;
- No areas within 100 m of early transportation routes can be recommended for exemption from further assessment; and,
- No areas within the property containing an elevated topography; pockets of well-drained sandy soil; distinctive land formations; or resource areas can be recommended for exemption from further assessment.

3.2 Archaeological Integrity

A negative indicator of archaeological potential is extensive below-grade land disturbance. This includes widespread earth movement activities that would have removed or relocated any archaeological resources to such a degree that their information potential and cultural heritage value or interest has been lost.

Activities that are recognized to cause sufficient disturbance to remove archaeological potential include: quarrying, major landscaping involving grading below topsoil, building footprints, and infrastructure development. Activities including agricultural cultivation, gardening, minor grading, and landscaping do not necessarily remove archaeological potential (MCM 2011:18). While there are areas of disturbance identified in the Study Areas in the form of paved parking lots and pathways, it is possible these areas still retain some archaeological potential, though background research and aerial mapping indicate these areas have likely been impacted by 20th and 21st century development.

3.3 Potential for Archaeological Resources

The Study Area has potential for archaeological resources due to the presence of several indicators of archaeological potential. Study Areas 1, 3 and 7 are located within 300 m of Lake Ontario or the Credit River. Additionally, Study Areas 4 and 6 are also within 300 m of Kenollie Creek and Stavebank Creek, tributaries of the Credit River. Potential for Indigenous archaeological resources is present within 300 m of registered Indigenous archaeological sites. There are two pre-contact Indigenous sites within 300 m of Study Area 3. The potential for Euro-Canadian archaeological resources is present within 100 m of the 19th century roads shown on the historic maps (Map 3 and Map 4). Study Area 1 and 2 are located within 100 m of historic roads. Study Areas 1, 2, 4, 5, and 6 are within 300 m from early Euro-Canadian settlement or properties designated under the Ontario Heritage Act while both Study Area 3 and 4 are located within Cultural Heritage Landscapes. There are two post-contact Euro-Canadian historical sites within 300 m of Study Area 4. Therefore, these Study Areas have archaeological potential for both Indigenous and Euro-Canadian archaeological resources.

The Study Area has many features that indicate archaeological potential, though there are some areas where the archaeological potential of the Study Area has been impacted by 20th century infrastructure. Study Area 1 is a public park and has evidence of disturbance in the form of pathways, paved public spaces, and landscaping/garden beds. Study Areas 2 and 3 have been paved over and are parking lots. A portion of Study Area 4 was impacted by the construction of the Rosemere SPS. During a previous Stage 2 test pit survey of the Rosemere SPS location, the area impacted by construction was determined to be completely disturbed (ASI 2018). The aerial photographs (Map 5) indicate Study Area 5 has been entirely disturbed by 20th century developed and has low potential for archaeological resources.

It should be noted that while registered archaeological site AjGv-71 (James Taylor) (see Section 1.2.7) was identified under a paved parking lot, approximately 220 m southwest of Study Area 3, during Stage 2 mechanical test trenching, the site is located on the other side of the river and the site limits were identified as being 30 m by 20 m, so it is unlikely the site extends into Study Area 3. The Stage 2 mechanical test trenching was undertaken as background research identified several historical structures that were known to have stood within the subject property ASI was assessing. While these structures were destroyed by an 1855 fire it was determined through background research that most of the facilities extant in 1832-1855 may not have been impacted by later construction events. Based on this information, it was determined potential for the recovery of archaeological resources associated with these occupations existed (ASI 2010:3) Although Study Area 3 exhibits similar existing conditions to that of the subject property AjGv-71 was identified within (i.e. a parking lot), there are no registered archaeological sites within Study Area 3, and an examination of the historical mapping indicates there are no

historical structures within Study Area 3, indicating the potential for archaeological resources related to previously extant buildings from the early to mid 19th century is low. Study Area 7 has been previously assessed and requires no additional archaeological assessment (WSP 2018).

Observed archaeological potential is limited to portions of the Study Areas not impacted by modern development, specifically within Tall Oaks Park (Study Area 1), Mona Road (Study Area 6), and a small area adjacent to the Rosemere SPS (Study Area 4). The remainder of the Study Areas consists of paved parking lots, commercial areas, and landscaping. While background research indicated the Study Areas exhibited archaeological potential due to the presence of a number of features, including proximity to water, registered archaeological sites, historical Euro-Canadian settlement and transportation routes, this archaeological potential has been significantly impacted by development during the 20th and 21st centuries. These areas showed evidence of substantial landscaping and the presence of infrastructure.

Maps 9A to 9G illustrate the Stage 1 Archaeological Assessment results for each Study Area.

4.0 RECOMMENDATIONS

The Stage 1 Archaeological Assessment and property inspections found that portions of the Study Area exhibited potential for the recovery of pre- and post-contact Indigenous and Euro-Canadian historical archaeological resources. Based on the findings of the Stage 1 Archaeological Assessment, the following recommendations are made, as illustrated in Map 9.

1) Lands that have been previously subjected to Archaeological Assessment(s) and cleared by the MCM of further archaeological concern are recommended to be exempt from further Archaeological Assessment.

    a) The portion of Study Area 4 that consists of the Rosemere SPS was previously assessed and no further assessment was recommended for that area (ASI 2017; Map 9D).

    b) Study Area 7 has been previously assessed and no further assessment was recommended for that area (WSP 2018; Map 9G).

2) The Stage 1 Archaeological Assessment has determined there is potential for the identification of archaeological resources within portions of the Study Area:

    a) Study Area 1; Stage 2 test pit survey is recommended within a portion of the Study Area (Map 9A).

    b) Study Area 4; Stage 2 test pit survey is recommended within a portion of the Study Area (Map 9D).

    c) Study Area 6; Stage 2 test pit survey is recommended within a portion of the Study Area (Map 9F).

    Stage 2 test pit survey at 5 m intervals is recommended for these areas prior to ground disturbance activities in accordance with Section 2.1.2 of the MCM's *Standards and Guidelines for Consultant Archaeologists* (2011). Test pits should be 30 cm in diameter and hand excavated 5 cm into sterile subsoil. If artifacts are recovered their location should be recorded with a GPS unit and test pit intervals reduced to 2.5 m within 5 m of the positive test pit, as well as a 1 m test unit if necessary.

3) Areas of previous disturbance were identified in portions of the Study Area. These areas of disturbance include parking lots, sidewalks/paved public spaces, and landscape design areas (i.e. gardens, grass boulevards) or past disturbance documented in historical aerial photographs. The Stage 1 Archaeological Assessment property inspection determined there is low potential for the identification of archaeological resources in portions of the Study Area:

    a) Study Area 1; Low archaeological potential within portions of the Study Area; no further Archaeological Assessment is recommended for these areas (Map 9A).

    b) Study Area 2; Low archaeological potential within portions of the Study Area; no further Archaeological Assessment is recommended for these areas (Map 9B).

    c) Study Area 3; Low archaeological potential within Study Area; no further Archaeological Assessment is recommended (Map 9C).

    d) Study Area 4; Low archaeological potential within portions of the Study Area; no further Archaeological Assessment is recommended for these areas (Map 9D).

    e) Study Area 5; Low archaeological potential within the entire Study Area; no further Archaeological Assessment is recommended for these areas (Map 9E).

Despite efforts and due diligence, no archaeological assessment can necessarily account for potential archaeological resources. Should deeply buried archaeological resources be identified during ground disturbance activity associated with future development of the Study Area, ground disturbance activities shall be immediately halted, and the Archaeology Division of the Culture Programs Unit of the MCM notified.

The MCM is requested to review, and provide a letter indicating their satisfaction with the results and recommendations presented herein, with regard to the 2011 *Standards and Guidelines for Consultant Archaeologists* and the terms and conditions for archaeological licences, and to enter this report into the Ontario Public Register of Archaeological Reports.

5.0 ADVICE ON COMPLIANCE WITH LEGISLATION

This report is submitted to the Minister of Citizenship and Multiculturalism, as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection, and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the MCM, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.

It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest , and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the *Ontario Heritage Act*.

The *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33, requires that any person discovering or having knowledge of a burial site shall immediately notify the police or coroner. It is recommended that the Registrar of Cemeteries at the Ontario Ministry of Consumer Services is also immediately notified.

6.0 REFERENCES

4Transit
2018 Stage 1 Archaeological Assessment, Port Credit GO Station, Metrolinx, Part of Lot 2 through 5, Range 1 Credit River I.R., and part of Port Credit Town Plot, in the City of Mississauga, former Township of Toronto, Former County of Peel, Regional Municipality of Peel, in the Province of Ontario. Aurora, Ontario. PIF P394-0065-2018.

Anderson, Jacob
2009 The Lawson Site: An Early Sixteenth Century Neutral Iroquoian Fortress. Museum of Ontario Archaeology, Special Publication No. 2. London.

Archaeological Services Incorporated (ASI)
2010 Stage 2 Archaeological Resource Assessment of Marina Park, 15 Front Street South, City of Mississauga, Regional Municipality of Peel, Ontario. CIF P315-038-2010

2012 Stage 1 Archaeological Resource Assessment of 31 Lakeshore Road East (Part of Harbour Company Plot Plan PC-2 [Port Credit]), City of Mississauga, Regional Municipality of Peel, Ontario. PIF P125-075-2011.

2016a Stage 1 Archaeological Assessment of 1142 Mona Road (Part of Lots 99 And 100, Registered Plan 323), Part of Lots 4 And 5, Range 1, Credit Indian Reserve, Geographic Township of Toronto, Former Peel County, City of Mississauga, R.M. Peel, Ontario. PIF P046-0139-2016.

2016b Stage 2 Archaeological Assessment of 1142 Mona Road (Part of Lots 99 And 100, Registered Plan 323), Part of Lots 4 And 5, Range 1, Credit Indian Reserve, Geographic Township of Toronto, Former Peel County, City of Mississauga, R.M. Peel, Ontario. PIF P046-0158-2016.

2016c Stage 3 Archaeological Assessment Site AjGv-083 1142 Mona Road (Part of Lots 99 And 100, Registered Plan 323), Part of Lots 4 And 5, Range 1, Credit Indian Reserve, Geographic Township of Toronto, Former Peel County, City of Mississauga, R.M. Peel, Ontario. PIF P223-0103-2016.

2016d Stage 4 Archaeological Mitigation Site AjGv-083 1142 Mona Road (Part of Lots 99 And 100, Registered Plan 323), Part of Lots 4 And 5, Range 1, Credit Indian Reserve, Geographic Township of Toronto, Former Peel County, City of Mississauga, R.M. Peel, Ontario. PIF P223-0107-2016.

2017 Stage 1 Archaeological Assessment Assignment 1: Sewage Pumping Station Upgrades in Mississauga Part of Lots 5 and 7, Range 1 Credit Indian Reserve, Part of Lot 6 Range 2 Credit Indian Reserve, and Part of Lot 23, Concession 3 South of Dundas Street (Former Township of Toronto, County of Peel), City of Mississauga, Regional Municipality of Peel, Ontario. PIF P1066-0029-2017.

2018 Stage 2 Archaeological Assessment Assignment 1: Sewage Pumping Station Upgrades in Mississauga Part of Lots 5 and 7, Range 1 Credit Indian Reserve, Part of Lot 6 Range 2 Credit Indian Reserve, and Part of Lot 23, Concession 3 South of Dundas Street (Former Township of Toronto, County of Peel), City of Mississauga, Regional Municipality of Peel, Ontario. PIF P094-0248-2017.

Archaeoworks Inc.
2010 Stage 1 Archaeological Assessment (AA) for the Hurontario Higher Order Transit Development, Class EA, City of Brampton and Mississauga, Regional Municipality of Peel, Ontario. Newmarket, Ontario. PIF P029-703-2010.

Bull, Wm. Perkins
1935 From Brock to Currie: the military development and exploits of Canadians in general and of the men of Peel in particular, 1791 to 1930, Toronto: The Perkins Bull Foundation, George J. McLeod Ltd.

Bursey, Jeffrey
1995 The Transition from the Middle to Late Woodland Periods: A Re-Evaluation. In Origins of the People of the Longhouse: Proceedings of the 21st, Annual Symposium of the Ontario Archaeological Society, edited by André Bekerman and Gary Warrick, pp. 43-54. Ontario Archaeological Society, Toronto.

Canada's Historic Places
ND Cotton-Hawksworth House. https://www.historicplaces.ca/en/rep-reg/place-lieu.aspx?id=14973&pid=0. Accessed October 21, 2021.

City of Mississauga
2004 Mississauga: The Evolution of a City. Mississauga: Planning and Building Department, Policy Planning Division.

Chapman, L.J. and D.F. Putnam
1984 The Physiography of Southern Ontario. 3rd edition. Ontario Geological Survey Special Volume 2. Ontario Ministry of Natural Resources, Toronto.

Clarkson, Betty
1967 Credit Valley Gateway: The Story of Port Credit. University of Toronto Press, Toronto.

Crawford, Gary and David Smith
1996 Migration in prehistory: Princess Point and the Northern Iroquoian case. American Antiquity 61(4):782-790.

Crawford, Gary, David Smith and Vandy Bowyer
1997 Dating the entry of corn (*Zea mays*) into the Lower Great Lakes region. American Antiquity 62(1):112-119.

Crawford, Gary, David Smith, Joseph Desloges and Anthony Davis
1998 Floodplains and Agricultural Origins: A Case Study in South-Central Ontario, Canada. Journal of Field Archaeology 25:125-137.

Dieterman, Frank
2001 Princess Point: the landscape of place. Unpublished Ph.D. dissertation, Department of Anthropology, University of Toronto.

Dodd, Christine F., Dana R. Poulton, Paul A. Lennox, David G. Smith and Gary A. Warrick
1990 The Middle Ontario Iroquoian Stage. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:321-360.

Ellis, Chris J. and D. Brian Deller
1990 Paleo-Indians. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:37-64.

Ellis, Chris J. and Neal Ferris (eds)
1990 The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5.

Ellis, Chris, Ian T. Kenyon and Michael W. Spence
1990 The Archaic. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:65-124.

Ferris, Neal
2009 The Archaeology of Native-Lived Colonialism: Challenging History in the Great Lakes. University of Arizona Press, Tucson.

Ferris, Neal and Michael Spence
1995 The Woodland traditions in southern Ontario. Revista de Arqueología Americana 9:83-138.

Fox, William
1990 The Middle Woodland to Late Woodland Transition. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:171-188.

Gibson, M.M.
2002 Changes at the River's Mouth: The Port Credit Community. In *Mississauga: The First Ten Thousand Years.* F.A. Dieterman. Eastend Books, Toronto.

Golder Associates Ltd.
2021 Stage 1 Archaeological Assessment Port Credit East Wastewater Servicing Optimization Strategy Schedule 'C' Environmental Assessment, Part of Lots 2 to 6, A and D, Range 1 Credit River, Port Credit Town Plot, Lots B and C, Broken Front Concession, and Part of Lot 12, Concession 3 South of Dundas Street, Township of Toronto, Peel County, now the City of Mississauga, Municipality of Peel. PIF P468-0049-2020 and P468-0050-2020.

Heritage Mississauga
2009 History of Mississauga. http://www.heritagemississauga.com/page/History. Accessed 13 October 2021.

Hicks, K.A.
2007 Port Credit: Past to Present. Mississauga Library System, Mississauga.

Kirkwood, H.
1967 Town of Port Credit. In A History of Peel County, To Mark Its Centenary as a Separate County, 1867-1967, pp. 256-258. Printed by Charters Publishing Company Ltd. Brampton, for the Corporation of the County of Peel.

Lennox, P. A. and Fitzgerald, W.R.
1990 The Culture History and Archaeology of the Neutral Iroquoians. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:405-456.

Martin, Scott
2004 [2007] Lower Great Lakes Region Maize and Enchainment in the First Millennium AD. Ontario Archaeology 77/78:135-159.

MCM (Ministry of Citizenship and Multiculturalism)
2011 Standards and Guidelines for Consultant Archaeologists.

Mississaugas of the New Credit First Nation
2018 Past and Present. http://mncfn.ca/wp-content/uploads/2018/10/MississaugasoftheNewCreditFirstNation-PastPresentBooklets-PROOFv4-1.pdf. Accessed 22 May 2020.

Morris, J.L.
1943 Indians of Ontario. 1964 reprint. Department of Lands and Forests, Government of Ontario.

Pearce, Robert J.
2010 Southwestern Ontario: The First 12,000 Years. Electronic Document: http://www.diggingontario.uwo.ca.

Pope, J.H.
1877 Illustrated Historical Atlas of the County of Peel, Ont.: Compiled and Drawn from Official Plans and Special Surveys by J.H. Pope. Walker & Miles: Toronto.

Rayburn, A.
1997 Place Names of Ontario. University of Toronto Press, Toronto.

Riendeau, Roger E.
1985 Mississauga: An Illustrated History. Windsor Publications, Northridge, CA.

Ritchie, William
1971 A Typology and Nomenclature for New York Projectile Points. Revised Edition. New York State Museum and Science Service, Bulletin Number 384. The University of the State of New York, The State Education Department, Albany, New York.

Robb, George (et. al).
2003 Heritage Conservation Feasibility Study of Old Port Credit Village, Stage 1 Report. Prepared for the City of Mississauga, November 28, 2003.

Schmalz, Peter S.
1991 The Ojibwa of Southern Ontario. University of Toronto Press, Toronto.

Scott, D.F.
1997 Ontario Place Names: The Historical, Offbeat or Humorous Origins of More Than 1,000 Communities. Lone Pine Publishing, Edmonton.

Shen, Chen
1997 Towards a Comprehensive Understanding of the Lithic Production System of the Princess Point Complex, Southwestern Ontario. Ph.D. Dissertation, Graduate Department of Anthropology, University of Toronto.

2000 Tool use-patterning at the Grand Banks site of the Princess Point Complex, southwestern Ontario. Northeast Anthropology 60:63-87.

Smith, David G.
1990 Iroquoian Societies in Southern Ontario: Introduction and Historic Overview. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:279-290.

1997 Recent Investigations of Late Woodland Occupations at Cootes Paradise, Ontario. Ontario Archaeology 63:4-16.

Smith, W.H.
1846 Smith's Canadian Gazetteer, Comprising Statistical and General Information Respecting All Parts of the Upper Province, or Canada West. H. & W. Rowsell, Toronto.

1851 Canada: Past, Present and Future, Being a Historical, Geographical, Geological and Statistical Account of Canada West, volume 1. Thomas Maclear, Toronto.

Spence, Michael, Robert Pihl and Carl Murphy
1990 Cultural Complexes of the Early and Middle Woodland periods. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Papers of the London Chapter, Ontario Archaeological Society, Number 5:125-169.

Stothers, David and Richard Yarnell
1977 An agricultural revolution in the lower Great Lakes. In: Geobotany, edited by R. C. Romans. Plenum, New York, pp. 209-232.

Tremaine, G.R. and G.M. Tremaine
1859 Tremaine's Map of the County of Peel, Canada West: Compiled and Drawn by Geo. M. Tremaine. Toronto.

Walker & Miles
1877 Illustrated Historical Atlas of the County of Peel, Ontario. Walker & Miles, Toronto. Reprinted by Cumming Atlas Reprints, Stratford.

Walton, G.
1837 *The City of Toronto and the Home District Commercial Directory and Register with Almanack and Calendar for 1837*. T. Dalton and W.J. Coates, Toronto.

Williamson, Ronald F.
1990 The Early Iroquoian Period of Southern Ontario. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:291-320.

WSP
2017 Stage 1 Archaeological Assessment Front Street Catchment Area Diversion Sewer Lakeshore Road from Front Street to 50 m West of Ibar Way, Regional Municipality of Peel, Former Geographic Township of Toronto, Historic Peel County, Province of Ontario.

2018 Stage 2 Archaeological Assessment Front Street. Catchment Area Diversion Sewer, Region of Peel, Lots 21, 22 & 24, Concession 3, South of Dundas, and the Port Credit Town Plot within Port Credit, Township of Toronto, County of Peel, in the Province of Ontario.

7.0 IMAGES

Image 1: Landscaped garden beds within Study Area 1, facing east.

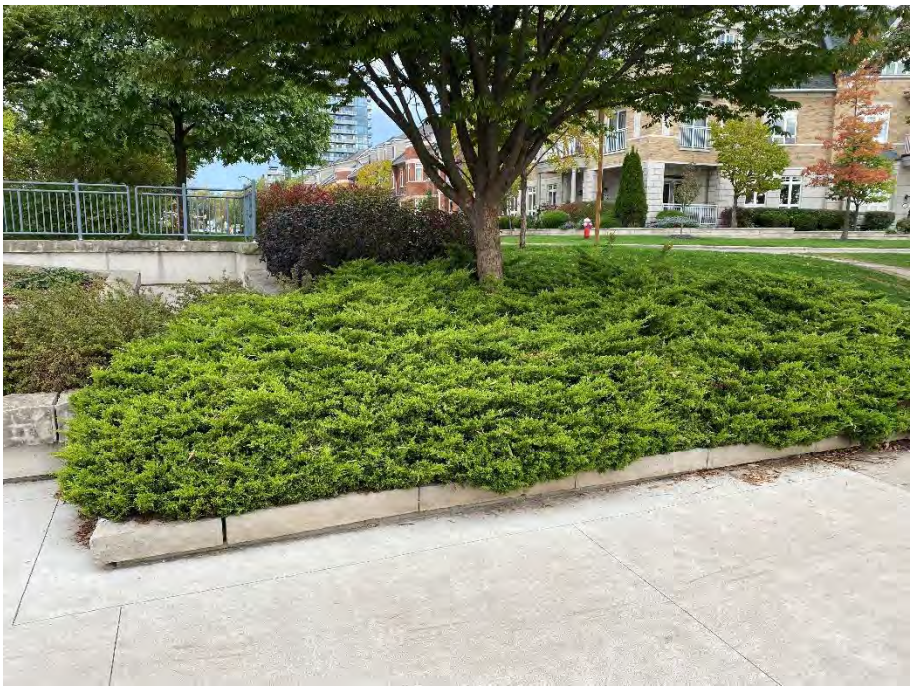


Image 2: Landscaped garden beds within Study Area 1, facing northwest.

Image 3: Landscaped garden beds within Study Area 1, facing southwest.

Image 4: Paved walkway and garden beds within Study Area 1, facing east.

Image 5: Sloped area leading up to the road within Study Area 1, facing northwest.

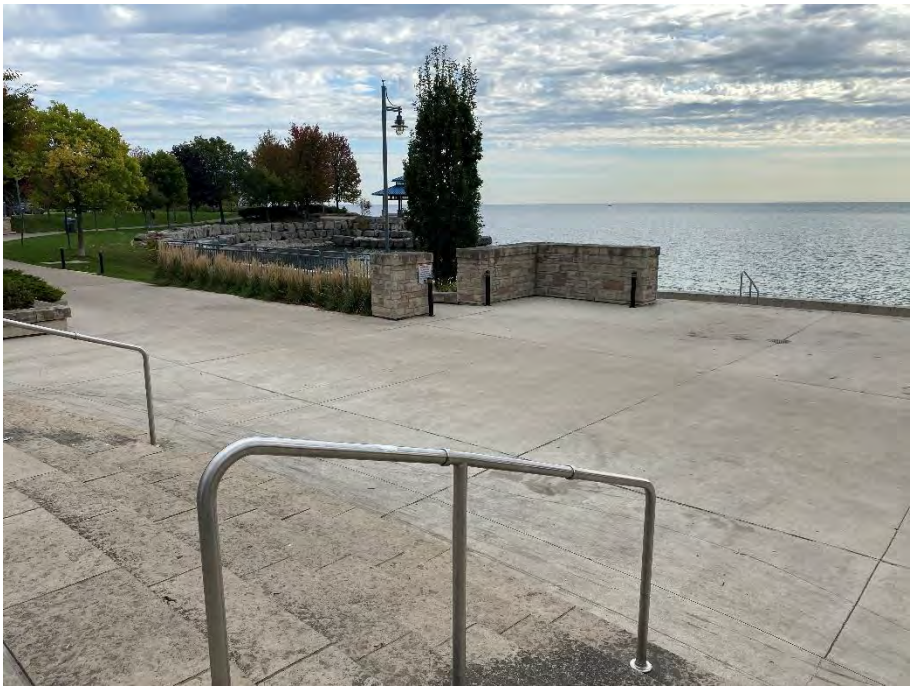


Image 6: Looking toward the paved area and landscaped garden beds within Study Area 1, facing east.

Image 7: Paved walkways and raised garden beds within Study Area 1, facing southwest.

Image 8: Waterfront trail, paved walkway and sloped area within Study Area 1, facing northwest.

Image 9: Areas of buried infrastructure with Study Area 1, facing east.

Image 10: Sloped area from waterfront trail to road within Study Area 1, facing east.

Image 11: Garden beds within Study Area 1, facing northeast.

Image 12: Lookout pavilion with garden beds within Study Area 1, facing southeast.

Image 13: Lookout pavilion and landscaping surrounding it within Study Area 1, facing south.

Image 14: Landscaped area within Study Area 1, facing northeast.

Image 15: Landscaped area between the waterfront and the trail within Study Area 1, facing west.

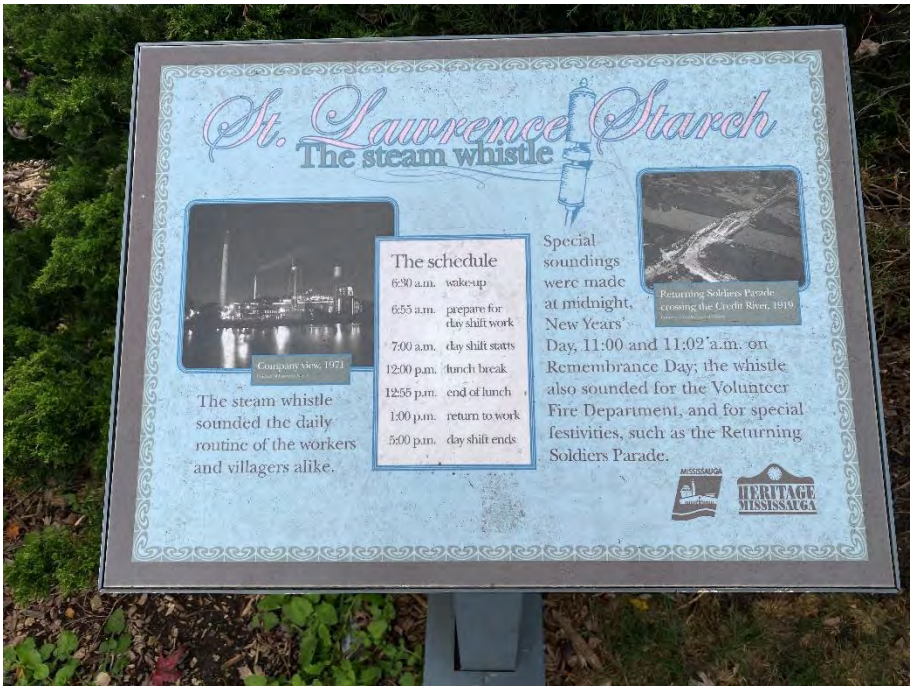


Image 16: Sign located within Study Area 1 providing information about the industrial history of the waterfront, facing southeast.

Image 17: Grassy area with landscaping next to the waterfront within Study Area 1, facing east.

Image 18: Landscaped area near history sign within Study Area 1, looking southwest.

Image 19: Rock retaining wall and garden beds along waterfront trail within Study Area 1, facing northeast.

Image 20: Garden bed and rock retaining wall between waterfront and trail within Study Area 1, facing east.

Image 21: Garden beds between trail and waterfront within Study Area 1, facing southeast.

Image 22: Thick brush between trail and waterfront within Study Area 1, facing south.

Image 23: Thick brush between rock retaining wall and trail within Study Area 1, facing southwest.

Image 24: Sloped area leading up to roadway within Study Area 1, facing west.

Image 25: Paved parking lot within Study Area 2, facing northeast.

Image 26: Extent of parking lot within Study Area 2, facing southwest.

Image 27: Extent of parking lot within Study Area 2, facing northeast.

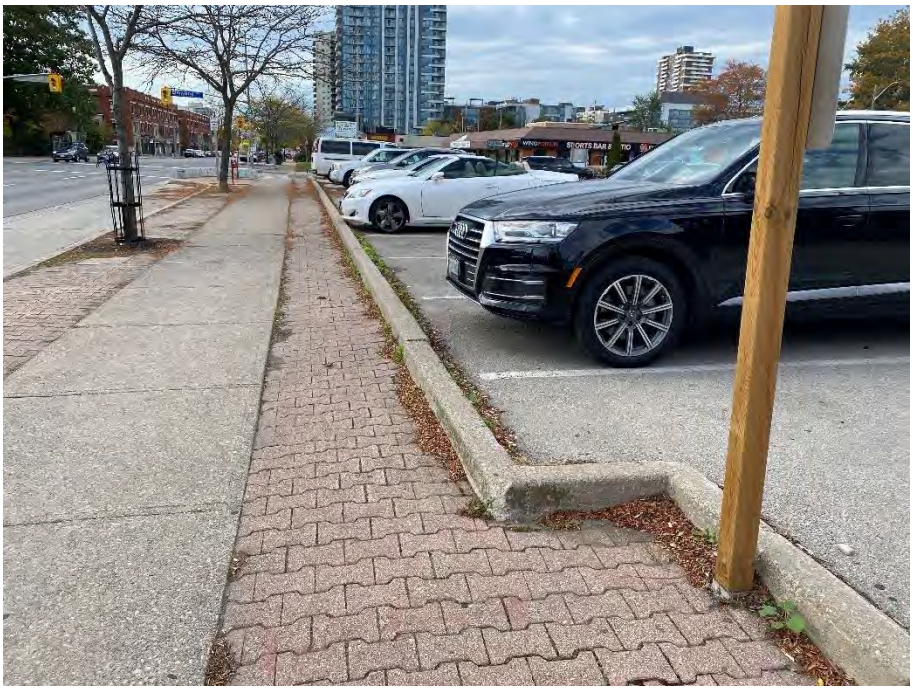


Image 28: Paved parking lot within Study Area 2, facing southwest.

Image 29: Paved parking lot within Study Area 2, facing southwest.

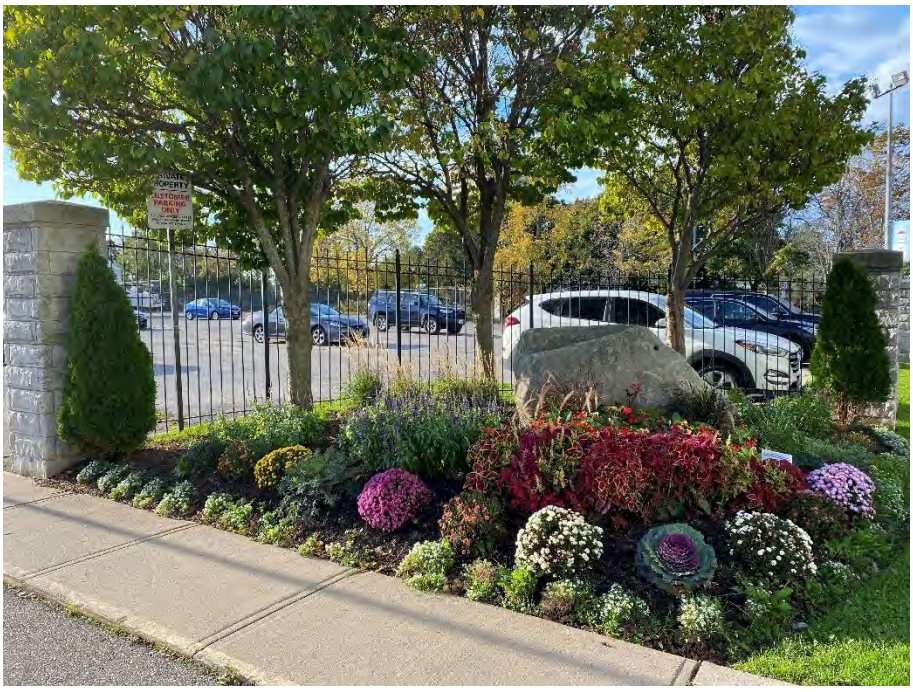


Image 30: Garden beds at entrance to Study Area 3, facing southwest.

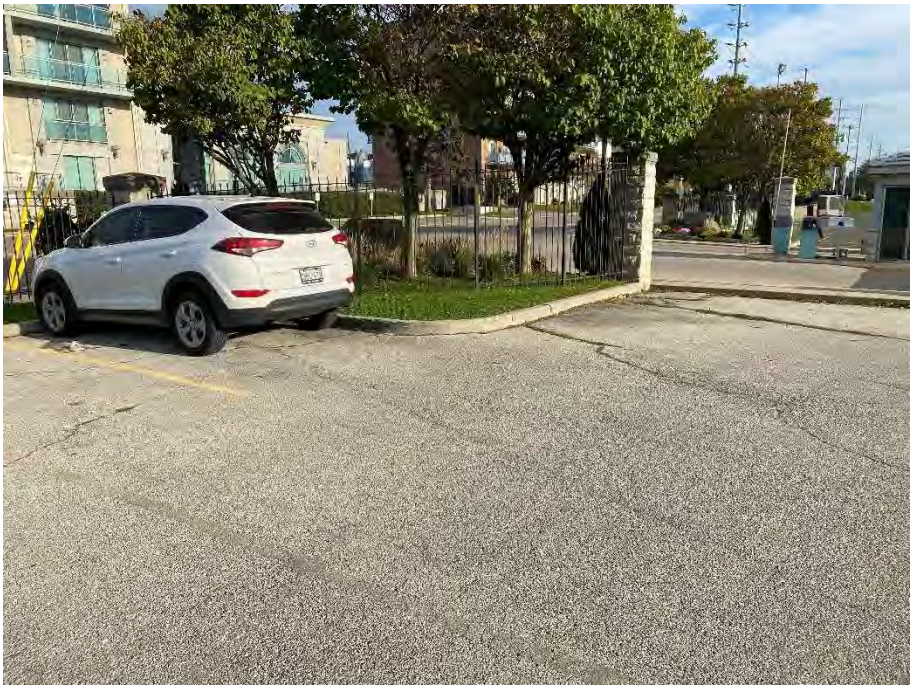


Image 31: Small landscape designed grass area within Study Area 3, facing north.

Image 32: Small landscape designed grass area of parking lot within Study Area 3, facing southeast.

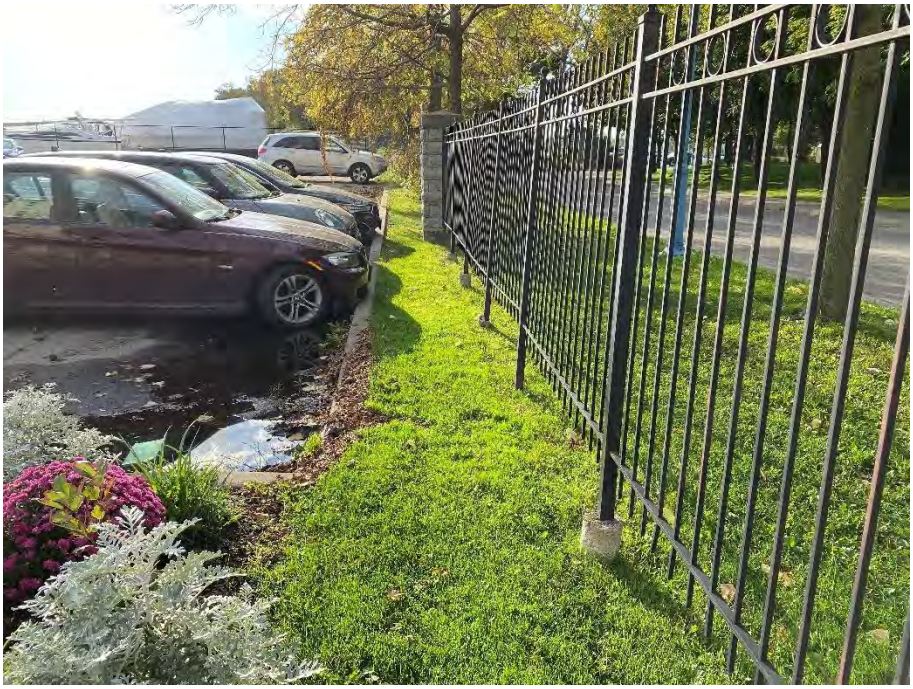


Image 33: Small landscape designed grass area of parking lot within Study Area 3, facing northeast.

Image 34: Paved parking lot within Study Area 3, facing northeast.

Image 35: Paved parking lot within Study Area 3, facing northwest

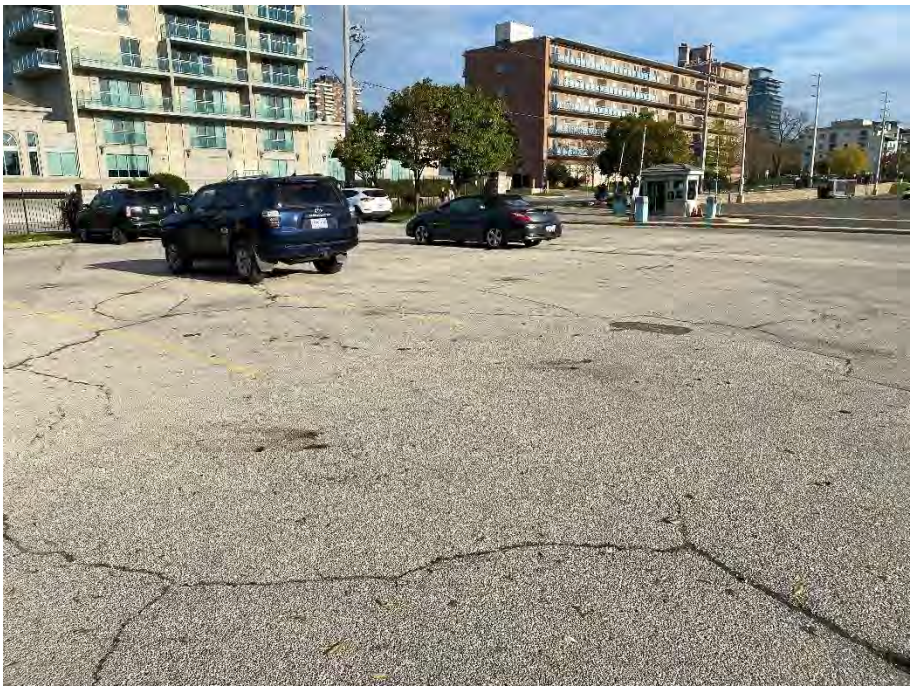


Image 36: Paved parking lot within Study Area 3, facing north

Image 37: Paved parking lot within Study Area 3, facing west

Image 38: Paved walkway and gardens within Study Area 3, facing west.

Image 39: Grassy area with slope up to road within Study Area 4, facing southwest.

Image 40: Metal drainage pipe under roadway and emptying into Study Area 4, facing west.

Image 41: Sloped area leading up to Stavebank Road within Study Area 4, facing southwest

Image 42: Rosemere SPS and slope down to creek within Study Area 4, facing northeast

Image 43: Small grassy area with slope to roadway within Study Area 4, facing southwest

Image 44: Sloped area down to Kenollie Creek within Study Area 4, facing southeast

Image 45: Sloped area down to Kenollie Creek within Study Area 4, facing northeast

Image 46: Sloped area down to Kenollie Creek within Study Area 4, facing east

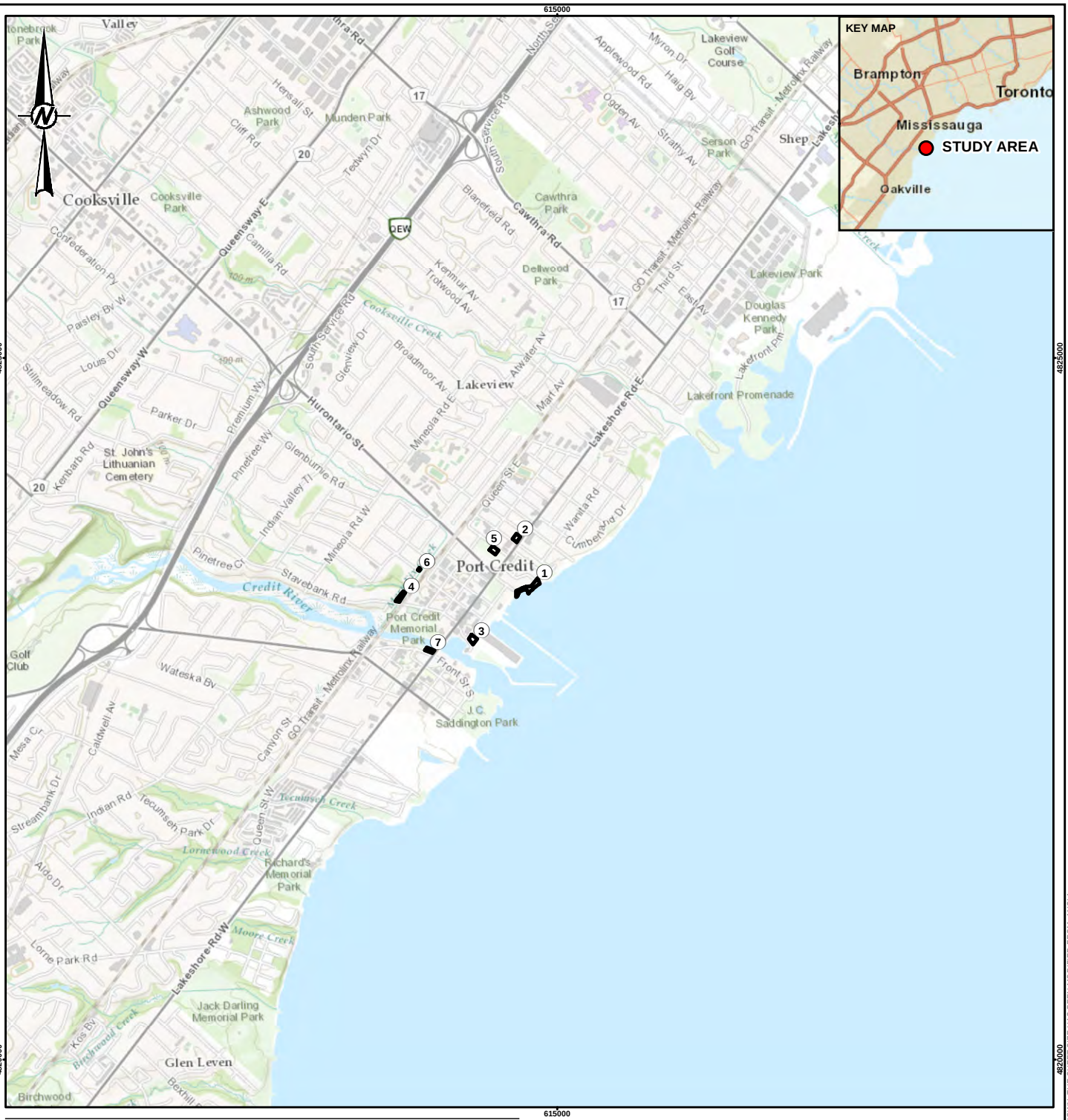
Image 47: East side of Study Area 5, facing northeast.

Image 48: Study area 5 showing open park, facing north. This park dates to the 2010s and was previously developed land.

Image 49: Utilities on northwest corner of Study Area 5, view south.

Image 50: View northeast of Study Area 6 located south of Mona Road.

8.0 MAPS



LEGEND

STAGE 1 STUDY AREA

0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

1. SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
2. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT
STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
STUDY AREA LOCATION PLAN

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	A	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A

25mm

0

PATH: S:\Clients\Region of Peel\Elmwood Hiawatha SPS\99 PROJ\19 I\2019 GMBP SPS EA\40 PROD\0014 Archaeology Stage1 PortCreditEast\19\2019-0014-HA-0001.mxd PRINTED ON: 2023-08-17 AT 4:13:49 PM

LEGEND

- SPS STATION
- TRAIL
- RAILWAY
- ROAD
- WATERCOURSE
- PROVINCIALLY SIGNIFICANT WETLAND
- BUILDING FOOTPRINT
- PARCEL BOUNDARY
- STAGE 1 STUDY AREA

0 50 100 150 200

1:5,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
SITE PLAN

CONSULTANT

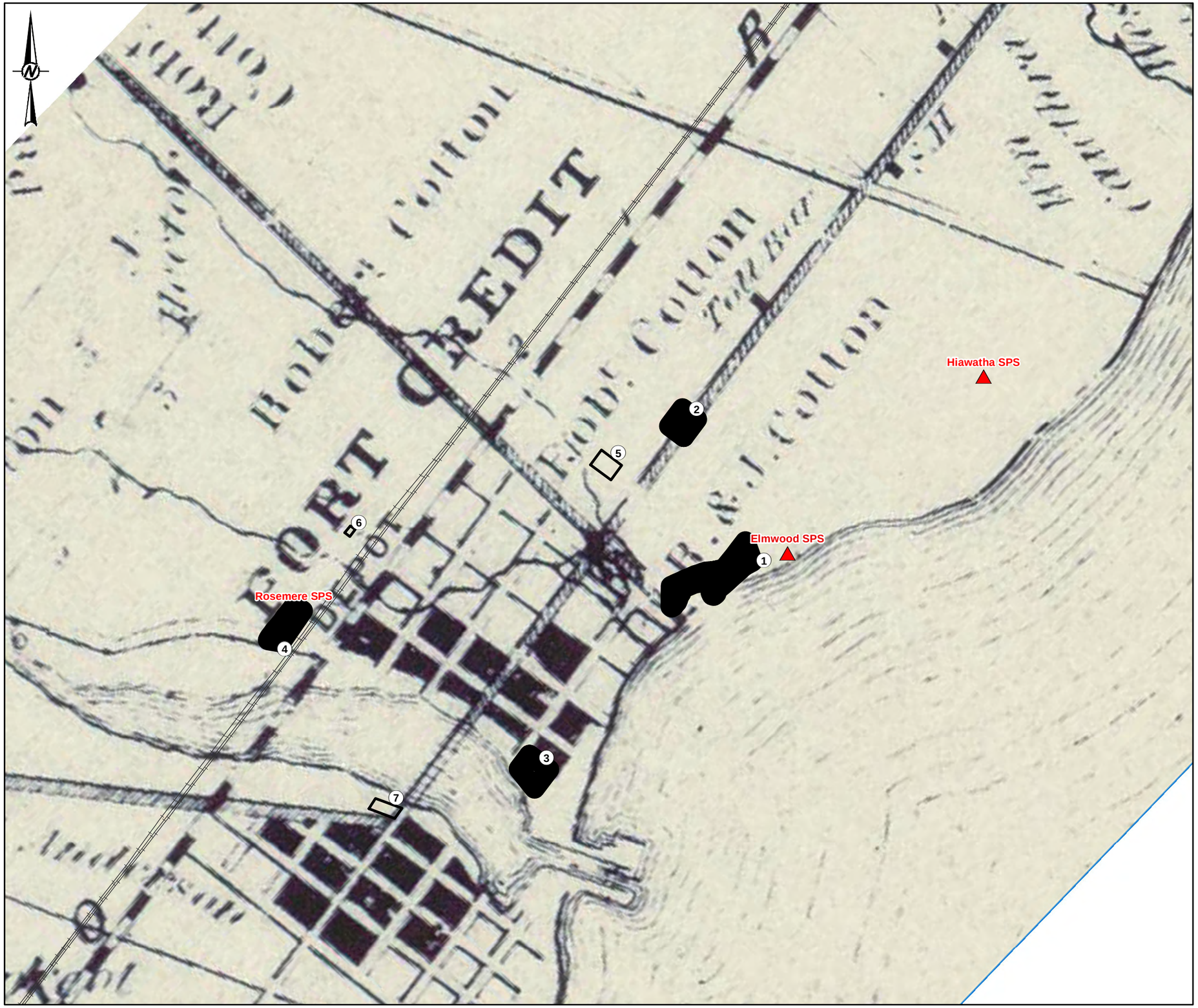
YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\1912019\19_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCreekEast\1912019-0014-HA-0002.mxd PRINTED ON: 2023-08-17 AT: 4:13:29 PM



LEGEND

- SPS STATION
- RAILWAY
- STAGE 1 STUDY AREA

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
1859 TREMAINE'S MAP COUNTY OF PEEL

CONSULTANT

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\A1912019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCreekEast\1912019-0014-HA-0003.mxd PRINTED ON: 2023-08-17 AT: 4:13:07 PM

LEGEND

- SPS STATION
- RAILWAY
- STAGE 1 STUDY AREA

0 100 200 300 400

1:8,500 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
1877 MAP OF THE TOWNSHIP OF TORONTO

CONSULTANT
wsp

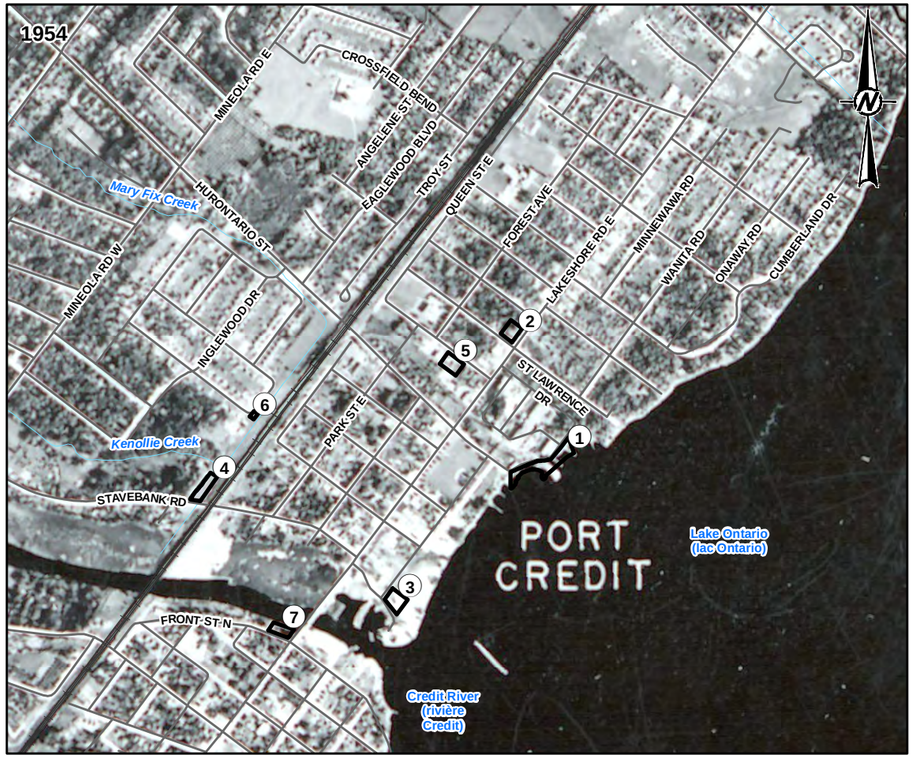
YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

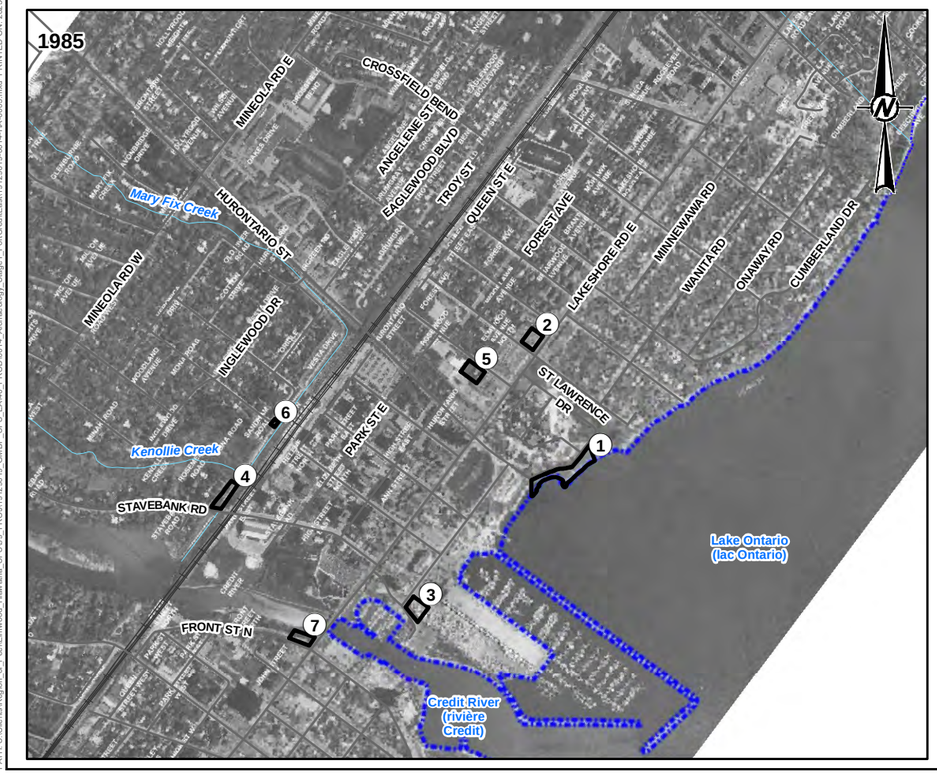
PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\1912019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCreditEast\19129019-0014-HA-0004.mxd PRINTED ON: 2023-08-17 AT: 4:12:44 PM





LEGEND

- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 1 STUDY AREA

0 200 400 600 800

1:16,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. HISTORICAL AIRPHOTOS OBTAINED FROM HTTP://WWW6.MISSISSAUGA.CA/MISSMAPS/#MAP=12/-8864609.44/5404848.32/0.9075712110370514
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

AERIAL PHOTOGRAPHY

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	5

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\9G_PRO_1191219\19_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCreekEast\1912019-0014-HA-A005.mxd PRINTED ON: 2023-08-17 AT 4:12:16 PM

LEGEND

- SPS STATION
- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 1 STUDY AREA

SURFICIAL GEOLOGY

- 3: PALEOZOIC BEDROCK
- 8B: INTERBEDDED FLOW TILL, RAINOUT DEPOSITS AND SILT AND
- 9C: FORESHORE-BASINAL DEPOSITS
- 19: MODERN ALLUVIAL DEPOSITS

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

SURFICIAL GEOLOGY

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\1912019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCreekEast\1912019-0014-HA-0006.mxd PRINTED ON: 2023-08-17 AT 4:11:15 PM

LEGEND

- SPS STATION
- RAILWAY
- WATERCOURSE
- STAGE 1 STUDY AREA
- PREVIOUSLY ASSESSED STAGE 1 ARCHAEOLOGICAL ASSESSMENT (ARCHEOWORKS INC. 2010, P029-703-2010)
- PREVIOUSLY ASSESSED STAGE 1 ARCHAEOLOGICAL ASSESSMENT (ARCHAEOLOGICAL SERVICES INC. 2012, P125-075-2011)
- PREVIOUSLY ASSESSED STAGE 1-4 ARCHAEOLOGICAL ASSESSMENT (ASI 2016, P046-0139-2016, P046-0158-2016, P223-0103-2016, P223-0107-2016)
- PREVIOUSLY ASSESSED STAGE 1-2 ARCHAEOLOGICAL ASSESSMENT (ASI 2017, P1066-0029-2017, P094-0248-2017)
- PREVIOUSLY ASSESSED STAGE 1 ARCHAEOLOGICAL ASSESSMENT (4TRANSIT 2018, P394-0065-2018)
- PREVIOUSLY ASSESSED STAGE 1-2 ASSESSMENT (WSP 2017; 2018; PIFS P474-0021-2017 P1078-0009-2018)
- PREVIOUSLY ASSESSED STAGE 1 ARCHAEOLOGICAL ASSESSMENT (GOLDER ASSOCIATES LTD. 2020, P468-0049-2020 & P468-0050-2020)

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

PREVIOUS ARCHAEOLOGICAL ASSESSMENTS WITHIN 50 M OF THE STUDY AREA

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	7

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\1912019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCreekEast\1912019-0014-HA-0007.mxd PRINTED ON: 2023-08-17 AT 4:10:45 PM

LEGEND

- SPS STATION
- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 1 STUDY AREA
- PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)

CULTURAL HERITAGE LANDSCAPE

- OLD PORT CREDIT CULTURAL HERITAGE LANDSCAPE
- PORT CREDIT HARBOUR CULTURAL HERITAGE LANDSCAPE
- MINEOLA NEIGHBOURGOOD RESIDENTIAL LANDSCAPE

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

CULTURAL HERITAGE RESOURCES

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	8

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\9\9_PRO\1912019_GMBP_SPS_EA\4_PRO\0014_Archaeology_Stage1_PortCreekEast\1912019-0014-HA-0008.mxd PRINTED ON: 2023-08-17 AT: 4:11:43 PM

LEGEND

- PHOTO LOCATION AND DIRECTION
- ROAD
- STAGE 1 STUDY AREA
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT RECOMMENDED – TEST PIT SURVEY AT 5 M INTERVALS
- DISTURBED DUE TO MAJOR LANDSCAPING/INFRASTRUCTURE, NO ARCHAEOLOGICAL POTENTIAL
- SLOPE > 20 DEGREES, LOW ARCHAEOLOGICAL POTENTIAL

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
ARCHAEOLOGICAL POTENTIAL, PHOTO LOCATIONS AND RECOMMENDATIONS

CONSULTANT

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	9A

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\1912019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCredEast\1912019-0014-HA-0009.mxd PRINTED ON: 2023-08-17 AT 4:09:26 PM

LEGEND

- PHOTO LOCATION AND DIRECTION
- ROAD
- STAGE 1 STUDY AREA
- DISTURBED DUE TO MAJOR LANDSCAPING/INFRASTRUCTURE, NO ARCHAEOLOGICAL POTENTIAL

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

ARCHAEOLOGICAL POTENTIAL, PHOTO LOCATIONS AND RECOMMENDATIONS

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	9B

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\9B_PROJ\1912019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCreditEast\1912019-0014-HA-0009.mxd PRINTED ON: 2023-08-17 AT: 4:09:37 PM

LEGEND

- PHOTO LOCATION AND DIRECTION
- ROAD
- STAGE 1 STUDY AREA
- DISTURBED DUE TO MAJOR LANDSCAPING/INFRASTRUCTURE, NO ARCHAEOLOGICAL POTENTIAL

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
ARCHAEOLOGICAL POTENTIAL, PHOTO LOCATIONS AND RECOMMENDATIONS

CONSULTANT

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	9C

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\9b_PRO\1912019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCreekEast\1912019-0014-HA-0009.mxd PRINTED ON: 2023-08-17 AT: 4:09:46 PM

LEGEND

- PHOTO LOCATION AND DIRECTION
- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 1 STUDY AREA
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT RECOMMENDED – TEST PIT SURVEY AT 5 M INTERVALS
- PREVIOUSLY ASSESSED STAGE 1-2 ARCHAEOLOGICAL ASSESSMENT (GOLDER 2021); NO FURTHER ASSESSMENT RECOMMENDED
- PREVIOUSLY ASSESSED STAGE 1-2 ARCHAEOLOGICAL ASSESSMENT (ASI 2017); NO FURTHER ASSESSMENT RECOMMENDED
- SLOPE > 20 DEGREES, LOW ARCHAEOLOGICAL POTENTIAL
- PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
ARCHAEOLOGICAL POTENTIAL, PHOTO LOCATIONS AND RECOMMENDATIONS

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	9D

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\9\9_PRO\1912019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCreditEast\1912019-0014-HA-0009.mxd PRINTED ON: 2023-08-17 AT 4:09:57 PM

LEGEND

- PHOTO LOCATION AND DIRECTION
- ROAD
- STAGE 1 STUDY AREA
- DISTURBED DUE TO MAJOR LANDSCAPING/INFRASTRUCTURE, NO ARCHAEOLOGICAL POTENTIAL
- PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

ARCHAEOLOGICAL POTENTIAL, PHOTO LOCATIONS AND RECOMMENDATIONS

CONSULTANT

wsp

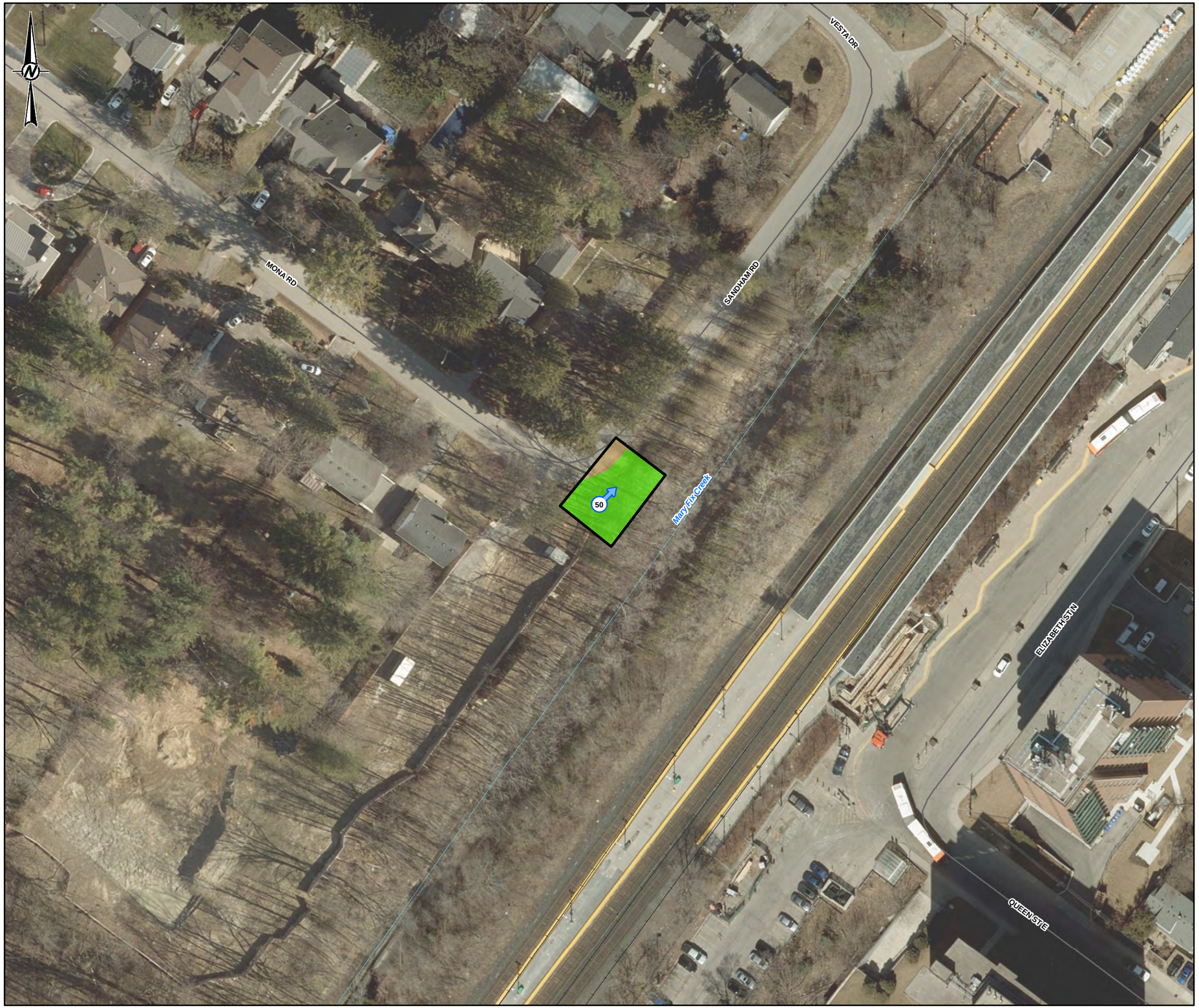
YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	9E

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\1912019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCreekEast\1912019-0014-HA-0009.mxd PRINTED ON: 2023-08-17 AT: 4:10:05 PM



LEGEND

- PHOTO LOCATION AND DIRECTION
- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 1 STUDY AREA
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT RECOMMENDED – TEST PIT SURVEY AT 5 M INTERVALS
- DISTURBED DUE TO MAJOR LANDSCAPING/INFRASTRUCTURE, NO ARCHAEOLOGICAL POTENTIAL

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
ARCHAEOLOGICAL POTENTIAL, PHOTO LOCATIONS AND RECOMMENDATIONS

CONSULTANT

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	9F

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\1912\0019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCredEast\1912019-0014-HA-0009.mxd PRINTED ON: 2023-08-17 AT 4:10:14 PM

LEGEND

- ROAD
- STAGE 1 STUDY AREA
- PREVIOUSLY ASSESSED STAGE 2 ARCHAEOLOGICAL ASSESSMENT (WSP 2018): NO FURTHER ASSESSMENT RECOMMENDED

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 1 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
ARCHAEOLOGICAL POTENTIAL, PHOTO LOCATIONS AND RECOMMENDATIONS

CONSULTANT

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	RH
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0014	0	9G

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

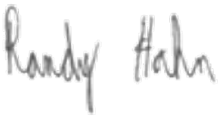
0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\9\9_PRO\1912019_GMBP_SPS_EA\40_PROD\0014_Archaeology_Stage1_PortCredEast\1912019-0014-HA-0009.mxd PRINTED ON: 2023-08-17 AT: 4:10:19 PM

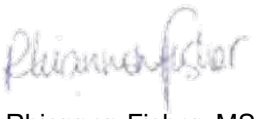
9.0 CLOSURE

We trust that this report meets your current needs. If you have any questions, or if we may be of further assistance, please contact the undersigned.

WSP Canada Inc.



Randy Hahn, PhD
Archaeologist



Rhiannon Fisher, MSc, RPA
Lead Archaeologist

RH/RF/ca

https://golderassociates.sharepoint.com/sites/114195/project files/6 deliverables/3 - archaeology/additional stage 1 archaeological assessment 2021/p468-0081-2021_re_15aug2023.docx

wsp.com

ORIGINAL REPORT

Stage 2 Archaeological Assessment

Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule 'C' Environmental Assessment, Part of Lots 4 and 5, Range 1 Credit River I.R. and Lot C, Broken Front Concession, Township of Toronto, Peel County, now the City of Mississauga, Regional Municipality of Peel

Licensee: Rhiannon Fisher (P468), MSc, RPA
PIF Number: P468-0083-2021

Submitted to:

GM BluePlan Engineering Limited

3300 Highway 7, Suite 402
Vaughan, Ontario L4K 4M2
Attn: Chris Campbell

Submitted by:

WSP Canada Inc.
6925 Century Avenue, Suite 100
Mississauga, Ontario, L5N 7K2, Canada

+1 905 567 4444

19129019-02

August 15, 2023

Distribution List

1 PDF copy - GM BluePlan Engineering Ltd.

1 PDF copy - Ministry of Citizenship and Multiculturalism

1 PDF copy - WSP Canada Inc.

Executive Summary

The Executive Summary highlights key points from the report only; for complete information and findings, as well as the limitations, the reader should examine the complete report.

WSP Canada Inc. (WSP) was retained by GM BluePlan Engineering Limited (GM BluePlan) to conduct a Stage 2 Archaeological Assessment as part of a Schedule 'C' Municipal Class Environmental Assessment (EA) for the proposed Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule 'C' Class EA (the Project). The overall Stage 2 Study Area consists of five distinct areas. Study Area 1 is approximately 0.07 ha and is located approximately 70 m southwest of the Elmwood Sewage Pumping Station (SPS). Study Area 2 is approximately 0.34 ha and surrounds the Elmwood SPS. Both Study Area 1 and 2 are located within the current Tall Oaks Park. Study Area 3 is approximately 0.23 ha in size and surrounds the Hiawatha SPS, within the current Hiawatha Park. Study Area 4 is approximately 0.07 ha and is located approximately 5 m southwest of the Rosemere SPS. Study Area 5 is approximately 0.02 ha and is located south of Mona Road, approximately 185 m northeast of the Rosemere SPS. Cumulatively, the five distinct Study Areas encompass an area approximately 0.73 ha in size. Study Areas 1 to 3 are located within part of Lot C, Broken Front Concession, Study Area 4 is located within part of Lot 5, Range 1 Credit River I.R., and Study Area 5 is located within part of Lot 4, Range 1 Credit River I.R., Township of Toronto, Peel County, now the City of Mississauga, Regional Municipality of Peel.

Golder, now WSP Canada Inc., previously completed a Stage 1 Archaeological Assessment for the Project (Project Information Numbers [PIF] P468-0049-2020 & P468-0050-2020) which assessed the archaeological potential of an area that included road right-of-ways (ROW) as well as the locations of the Rosemere, Elmwood and Hiawatha SPS within an area generally limited by the Credit River in the south, Veronica Drive and just east of Forest Avenue in the west, just south of Enola Avenue in the north, and Lake Ontario in the east (Golder 2021a). Following this previous study, GM BluePlan identified seven additional areas within the greater Project Area requiring Stage 1 Archaeological Assessment. The additional Stage 1 Archaeological Assessment for the Project (PIF P468-0081-2021) was carried out in between the Fall of 2021 and 2023 (WSP 2023). Both Stage 1 assessments determined portions of the Study Area retain archaeological potential for cultural heritage resources and, as such, Stage 2 Archaeological Assessment through test pit survey was recommended.

In November 2021, Golder conducted a Stage 2 Archaeological Assessment within four of the areas recommended for further work identified as Study Areas 1-4 above. These areas were subjected to a test pit survey at 5 m and 10 m intervals depending on conditions encountered. In October 2022, Golder conducted a Stage 1 and 2 Archaeological Assessment within the additional area identified as Study Area 5. Study Area 5 was subjected to a property inspection and test pit survey at 5 m intervals. During the Stage 2 Archaeological Assessment, two archaeological sites were identified: Location 1 and Tall Oaks (AjGv-95), both located within Study Area 2.

Location 1 consists of two pieces of Onondaga chert debitage recovered from two test pits. Cardinal test pits and a test unit were excavated, but there were no further finds. The site is located between the waterfront trail and Lake Ontario and measures approximately 5 m by 5 m. Based on these results, Location 1 does not meet Ministry of Citizenship and Multiculturalism (MCM) criteria for having sufficient cultural heritage value or interest to require Stage 3 Archaeological Assessment.

Tall Oaks (AjGv-95) yielded 30 pieces of Onondaga chert debitage from a single test pit. The site is located northeast of the Elmwood SPS and measures approximately 5 m by 5 m. Given the presence of at least five non-diagnostic pre-contact Indigenous artifacts within a 10 m by 10 m test pit survey area, as per *Section 2.2., Standards 1.a.ii (2)* of the MCM (2011), this site is considered to have further cultural heritage value and interest and a Stage 3 Archaeological Assessment is recommended.

Based on the results of the Stage 2 Archaeological Assessment documented herein, the following recommendations are presented:

1) **Location 1:** In accordance with *Section 2.2, Standard 1.a.ii.* (MCM 2011), Location 1 retains no further cultural heritage value or interest. No further archaeological assessment is recommended.

2) **Tall Oaks (AjGv-95):** Based on the results noted above, Stage 3 Archaeological Assessment is recommended for Tall Oaks (AjGv-95) in accordance with the MCM (2011) prior to any intrusive activity that may result in the destruction or disturbance to the site. The Stage 3 Archaeological Assessment should define the site extent, gather a representative sample of artifacts, and aid in the determination of a Stage 4 mitigation strategy, if required.

   The Stage 3 Archaeological Assessment should commence with the establishment of a site datum prior to beginning test unit excavation following the strategy for small pre-contact sites where it is not yet evident that the level of cultural heritage value or interest will result in a recommendation to proceed to Stage 4 mitigation (MCM 2011; *Section 3.2.3, Table 3.1, Standard 1 and 2)*.

3) Study Areas 1, 3, 4, and 5 retain no further cultural heritage value or interest. No further archaeological assessment is recommended for these areas.

Despite efforts and due diligence, no archaeological assessment can necessarily account for potential archaeological resources. Should deeply buried archaeological resources be identified during ground disturbance activity associated with future development of the Study Area, ground disturbance activities shall be immediately halted, and the Archaeology Division of the Culture Programs Unit of the MCM notified.

The MCM is requested to review and provide a letter indicating their satisfaction with the results and recommendations presented herein, with regard to the 2011 *Standards and Guidelines for Consultant Archaeologists* and the terms and conditions for archaeological licences, and to enter this report into the Ontario Public Register of Archaeological Reports.

Study Limitations

WSP Canada Inc. (WSP) has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the archaeological profession currently practicing under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty expressed or implied is made.

This report has been prepared for the specific site, design objective, developments and purpose described to WSP by GM BluePlan Engineering Limited (the Client). The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location.

The information, recommendations and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without WSP's express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the client, WSP may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to WSP. The report, all plans, data, drawings and other documents as well as all electronic media prepared by WSP are considered its professional work product and shall remain the copyright property of WSP, who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permission of WSP. The Client acknowledges the electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client cannot rely upon the electronic media versions of WSP's report or other work products.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project.

Special risks occur whenever archaeological investigations are applied to identify subsurface conditions and even a comprehensive investigation, sampling and testing program may fail to detect all or certain archaeological resources. The sampling strategies incorporated in this study comply with those identified in the MCM's *Standards and Guidelines for Consultant Archaeologists* (2011).

Project Personnel

Project Director	Heather Melcher, MSc, Director of Ecology, Ontario Earth and Environment
Project Manager	Kalena Lair, Environmental Assessment Specialist
Licensee	Rhiannon Fisher, MSc, RPA (P468), Lead Archaeologist
Licenced Field Director	Martha Tildesley, MA, RPA (P399), Archaeologist
Archaeological Field Technicians	Jessica Figura, Adam Goodlet, William Pettes
Report Production	Martha Tildesley
Technical Review	Rhiannon Fisher
Senior Review	Michael Teal, MA (P364), Archaeology Team Lead, Rhiannon Fisher
GIS/Mapping	Bojan Radojevic, GIS Analyst
Administration	Courtney Adey, Administrative Assistant

Acknowledgments

Proponent Contact	Chris Campbell, GM BluePlan Engineering Limited
Indigenous Communities	Mariah Sault, Mississaugas of the Credit First Nation; Wayne Hill, Haudenosaunee Development Institute; Tanya Hill-Montour, Six Nations of the Grand River First Nation; Huron-Wendat First Nation

Table of Contents

EXECUTIVE SUMMARY ..... **ii**

1.0 PROJECT CONTEXT **1**

1.1 Development Context 1

1.2 Objectives 1

1.3 Historical Context 1

1.3.1 Regional Indigenous Pre-Contact History 2

1.3.2 Post-Contact Regional History 7

1.3.3 Toronto Township, Peel County 8

1.3.3.1 Missinnihe/Credit River 9

1.3.3.2 Port Credit 9

1.3.4 Study Area History 11

1.4 Archaeological Context 11

1.4.1 Study Area Environment 11

1.4.2 Previous Archaeological Assessments 11

1.4.3 Registered Archaeological Sites 13

1.4.4 Cultural Heritage Resources 15

2.0 FIELD METHODS **16**

2.1 Study Area 1 16

2.2 Study Area 2 16

2.3 Study Area 3 17

2.4 Study Area 4 17

2.5 Study Area 5 18

3.0 RECORDS OF FINDS **19**

3.1 Location 1 19

3.2 Tall Oaks (AjGv-95) 19

3.2.1 Pre-Contact Indigenous Artifacts 20

3.2.1.1 Chipped Lithic Tools 20

4.0 ANALYSIS AND CONCLUSIONS 21

4.1 Location 1 21

4.2 Tall Oaks (AjGv-95) 21

5.0 RECOMMENDATIONS 22

6.0 ADVICE ON COMPLIANCE WITH LEGISLATION 23

7.0 BIBLIOGRAPHY 24

8.0 IMAGES 29

9.0 MAPS 42

TABLES

Table 1: Overview of Cultural Chronology of Southern Ontario 2

Table 2: Registered Archaeological Sites within 1 km of the Study Area 14

Table 3: Known Cultural Heritage Resources within 300 m of the Study Area 15

Table 4: Inventory of Documentary Record 19

IMAGES

Image 1: Test pitting at 10 m intervals within Study Area 1, facing east. 29

Image 2: Disturbed test pit within Study Area 1, facing north. 29

Image 3: Disturbed test pit showing evidence of irrigation pipe within Study Area 1, facing north. 30

Image 4: Disturbed test pit with sprinkler head for irrigation at surface, facing north. 30

Image 5: Test pitting at 5 m intervals within Study Area 2, facing east. 31

Image 6: Test pitting at 5 m intervals within Study Area 2, facing northwest. 31

Image 7: Disturbed test pit within Study Area 2, facing north. 32

Image 8: Natural test pit within Study Area 1, facing north. 32

Image 9: Natural test pit within Study Area 2, facing north. 33

Image 10: Excavating test unit over positive test pit within Study Area 2, facing west. 33

Image 11: Location 1 test unit complete within Study Area 2, facing northeast. 34

Image 12: Test pitting at 10 m intervals within Study Area 3, facing southwest. 34

Image 13: Test pitting at 10 m intervals within Study Area 3, facing east. 35

Image 14: Disturbed test pit within Study Area 3, facing north. 35

Image 15: Disturbed test pit with garbage within Study Area 3, facing north. 36

Image 16: Disturbed test it within Study Area 3, facing north. 36

Image 17: Test pitting at 5 m intervals within Study Area 4, facing northeast. 37
Image 18: Test pitting at 5 m intervals within Study Area 4, facing northeast. 37
Image 19: Test pit filling with water within Study Area 4, facing north. 38
Image 20: Disturbed test pit with grey construction layer within Study Area 4, facing north. 38
Image 21: Disturbed test pit within Study Area 4, facing north. 39
Image 22: Test pitting at 5 m intervals within Study Area 5, facing southwest. October 24, 2022. 39
Image 23: Test pit stratigraphy within Study Area 5, facing down. October 24, 2022. 40
Image 24: Sloped area down to creek, facing east. October 24, 2022. 40
Image 25: Onondaga chert debitage recovered from Location 1. 41
Image 26: Sample of Onondaga chert debitage recovered from Tall Oaks (AjGv-95). 41

MAPS

Map 1: Study Area Location Plan 43
Map 2: Site Plan 44
Map 3: 1859 Tremaine's Map County of Peel 45
Map 4: 1877 Map of the Township of Toronto 46
Map 5: Aerial Photography 47
Map 6: Surficial Geology 48
Map 7: Previous Archaeological Assessments within 50 m of the Study Area 49
Map 8: Cultural Heritage Resources 50
Map 9: Stage 1 Archaeological Assessment Results 51
Map 10: Stage 2 Archaeological Assessment Results and Photo Locations 52

APPENDICES

APPENDIX A
Complete Artifact Catalogue for Location 1

APPENDIX B
Complete Artifact Catalogue for Tall Oaks (AjGv-95)

1.0 PROJECT CONTEXT

1.1 Development Context

WSP Canada Inc. (WSP) was retained by GM BluePlan Engineering Limited (GM BluePlan) to conduct a Stage 2 Archaeological Assessment as part of a Schedule 'C' Municipal Class Environmental Assessment (EA) for the proposed Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule 'C' Class EA (the Project). The overall Stage 2 Study Area consists of five distinct areas. Study Area 1 is approximately 0.07 ha and is located approximately 70 m southwest of the Elmwood Sewage Pumping Station (SPS). Study Area 2 is approximately 0.34 ha and surrounds the Elmwood SPS. Both Study Area 1 and 2 are located within the current Tall Oaks Park. Study Area 3 is approximately 0.23 ha in size and surrounds the Hiawatha SPS, within the current Hiawatha Park. Study Area 4 is approximately 0.07 ha and is located approximately 5 m southwest of the Rosemere SPS. Study Area 5 is approximately 0.02 ha and is located south of Mona Road, approximately 185 m northeast of the Rosemere SPS. Cumulatively, the five distinct Study Areas encompass an area approximately 0.73 ha in size (Map 1 and Map 2). Study Areas 1 to 3 are located within part of Lot C, Broken Front Concession, Study Area 4 is located within part of Lot 5, Range 1 Credit River I.R., and Study Area 5 is located within part of Lot 4, Range 1 Credit River I.R., Township of Toronto, Peel County, now the City of Mississauga, Regional Municipality of Peel.

Golder, now WSP Canada Inc., previously completed a Stage 1 Archaeological Assessment for the Project (Project Information Numbers [PIF] P468-0049-2020 & P468-0050-2020) which assessed the archaeological potential of an area that included road right-of-ways (ROW) as well as the locations of the Rosemere, Elmwood and Hiawatha SPS within an area generally limited by the Credit River in the south, Veronica Drive and just east of Forest Avenue in the west, just south of Enola Avenue in the north, and Lake Ontario in the east (Golder 2021a). Following this previous study, GM BluePlan identified seven additional areas within the greater Project Area requiring Stage 1 Archaeological Assessment. The additional Stage 1 Archaeological Assessment for the Project (PIF P468-0081-2021) was carried out between the Fall of 2021 and 2023 (WSP 2023). Both Stage 1 assessments determined portions of the Study Area retain archaeological potential for cultural heritage resources and, as such, Stage 2 Archaeological Assessment through test pit survey was recommended. GM BluePlan identified one additional study area, Study Area 5, which required both Stage 1 and 2 Archaeological Assessment.

The Stage 1 and 2 Archaeological Assessment was conducted under the professional archaeological consultant licensee P468, issued to Rhiannon Fisher of WSP (PIF P468-0083-2021). Permission to access the Study Area and conduct all required archaeological fieldwork activities, including the recovery of artifacts was granted by the Region of Peel.

1.2 Objectives

The objectives of the Stage 2 Archaeological Assessment are as follows:

- To document archaeological resources within the Study Area;
- To determine whether any identified archaeological resources require further assessment; and,
- To recommend appropriate Stage 3 assessment strategies, where required.

1.3 Historical Context

To establish the historical context of the Study Area, a review of Pre-Contact Indigenous and Historic Euro-Canadian settlement history was undertaken. This information is presented below in chronological order.

1.3.1 Regional Indigenous Pre-Contact History

The general culture history of southern Ontario based on Ellis and Ferris (1990), spanning the Pre-Contact Indigenous Period is summarised in Table 1.

Table 1: Overview of Cultural Chronology of Southern Ontario

Period		Time Period (circa)	Characteristics
Paleo	Early	10,950 – 10,350 BP	Gainey, Barnes and Crowfield traditions; Small bands; mobile hunters and gatherers and large territories; Fluted projectiles.
	Late	10,350 – 9950 BP	Holcomb, Hi-Lo and Lanceolate biface traditions; continuing mobility; Campsite/Way-Station sites; Smaller territories are utilized; Non-fluted projectiles.
Archaic	Early	9950 – 7950 BP	Side-notched, corner-notched, and bifurcate base traditions; growing diversity of stone tool types; heavy woodworking tools appear (e.g., ground stone axes and chisels).
	Middle	7950 – 4450 BP	Stemmed, Brewerton side- and corner-notched traditions; reliance on local resources; populations increasing; more ritual activities; fully ground and polished tools; netsinkers common; earliest copper tools.
	Late	4450 – 2900 BP	Narrow Point, Broad Point and Small Point traditions; less mobility; use of fish-weirs; more formal cemeteries appear; stone pipes emerge; long-distance trade.
Woodland	Early	2900 – 2350 BP	Meadowood tradition; cord-roughened ceramics emerge; Meadowood cache blades and side-notched points; bands of up to 35 people.
	Middle	2350 – 1400 BP	Saugeen, Point Peninsula and Couture traditions; stamped ceramics appear; Saugeen projectile points; cobble spall scrapers; seasonal settlements and resource utilization; post holes, hearths, middens, cemeteries, and rectangular structures identified.
	Transitional	1400 – 1050 BP	Princess Point tradition; cord roughening, impressed lines, and punctate designs on pottery; adoption of maize horticulture at the western end of Lake Ontario; oval houses and ‘incipient’ longhouses; first palisades; villages with up to 75 people.
	Early Late Woodland	1050 – 650 BP	Glen Meyer tradition; settled village-life based on agriculture; small villages (0.4 ha) with up to 75-200 people and 4-5 longhouses; semi-permanent settlements.
	Middle Late Woodland	650 – 550 BP	Uren and Middleport traditions; classic longhouses emerge; larger villages (1.2 ha) with up to 600 people; more permanent settlements (30 years).
	Late Woodland	550 – 350 BP	Larger villages (1.7 ha) with examples up to 5 ha and up to 2,500 people; extensive croplands; hamlets, cabins, camps, and cemeteries; potential tribal units; fur trade begins ca. 1580; European trade goods appear.

*(BP) Before Present Era dates are calculated using the year 1950 as the recognized start date of the present era.

Paleo Period

The first human occupation of southern Ontario begins just after the end of the Wisconsin Glacial Period. Although there were a complex series of ice retreats and advances which played a large role in shaping the local topography, south-central Ontario was finally ice free by 12,500 years ago.

The first human settlement can be traced back 11,000 years, when this area was settled by Indigenous groups that had been living south of the Great Lakes. The period of these early Indigenous inhabitants is known as the Paleo Period (Ellis and Deller 1990).

Our current understanding of settlement patterns of Early Paleo peoples suggests that small bands, consisting of probably no more than 25-35 individuals, followed a pattern of seasonal mobility extending over large territories. One of the most thoroughly studied of these groups followed a seasonal round that extended from as far south as Chatham to the Horseshoe Valley north of Barrie. Early Paleo sites tend to be located in elevated locations on well-drained loamy soils. Many of the known sites were located on former beach ridges associated with glacial lakes. There are a few extremely large Early Paleo sites, such as one located close to Parkhill, Ontario, which covered as much as six hectares. It appears that these sites were formed when the same general locations were occupied for short periods of time over the course of many years. Given their placement in locations conducive to the interception of migratory mammals such as caribou, it has been suggested that they may represent communal hunting camps. There are also smaller Early Paleo camps scattered throughout the interior of southwestern and south-central Ontario, usually situated adjacent to wetlands. Research suggests that population densities were very low during the Early Paleo Period (Ellis and Deller 1990: 54). Archaeological examples of Early Paleo sites are rare.

The Late Paleo Period (10,350 – 9950 BP) has been less well researched and is consequently more poorly understood. By this time the environment of south-central Ontario was coming to be dominated by closed coniferous forests with some minor deciduous elements. It seems that many of the large game species that had been hunted in the early part of the Paleo Period had either moved further north, or as in the case of the mastodons and mammoths, became extinct.

Like the Early Paleo peoples, Late Paleo peoples covered large territories as they moved about in response to seasonal resource fluctuations. On a province wide basis Late Paleo projectile points are far more common than Early Paleo materials, suggesting a relative increase in population.

The end of the Late Paleo Period was heralded by numerous technological and cultural innovations that appeared throughout the Archaic Period. These innovations may be best explained in relation to the dynamic nature of the post-glacial environment and region-wide population increases.

Archaic Period

During the Early Archaic Period (9950 – 7950 BP), the jack and red pine forests that characterized the Late Paleo environment were replaced by forests dominated by white pine with some associated deciduous trees (Ellis et al.1990: 68-69). One of the more notable changes in the Early Archaic Period is the appearance of side and corner-notched projectile points. Other significant innovations include the introduction of ground stone tools such as celts and axes, suggesting the beginnings of a simple woodworking industry. The presence of these often large and not easily portable tools suggests there may have been some reduction in the degree of seasonal movement, although it is still suspected that population densities were quite low, and band territories large.

During the Middle Archaic Period (7950 – 4450 BP) the trend to more diverse toolkits continued, as the presence of net-sinkers suggest that fishing was becoming an important aspect of the subsistence economy. It was also at this time that "bannerstones" were first manufactured.

Bannerstones are carefully crafted ground stone devices that served as a counterbalance for atlatls or spear-throwers. Another characteristic of the Middle Archaic is an increased reliance on local, often poor-quality chert resources for the manufacturing of projectile points. It seems that during earlier periods, when groups occupied large territories, it was possible for them to visit a primary outcrop of high-quality chert at least once during their seasonal round. However, during the Middle Archaic, groups inhabited smaller territories that often did not encompass a source of high-quality raw material. In these instances, lower quality materials which had been deposited by the glaciers in the local till and river gravels were utilized.

This reduction in territory size was probably the result of gradual region-wide population growth which led to the infilling of the landscape. This process forced a reorganization of Indigenous subsistence practices, as more people had to be supported from the resources of a smaller area. During the latter part of the Middle Archaic, technological innovations such as fish weirs have been documented as well as stone tools especially designed for the preparation of wild plant foods.

It is also during the latter part of the Middle Archaic Period that long-distance trade routes began to develop, spanning the northeastern part of the continent. In particular, native copper tools manufactured from a source located northwest of Lake Superior were being widely traded (Ellis et al.1990: 66). By 5450 BP the local environment had stabilized in a near modern form (Ellis et al. 1990: 69).

During the Late Archaic (4450 – 2900 BP) the trend towards decreased territory size and a broadening subsistence base continued. Late Archaic sites are far more numerous than either Early or Middle Archaic sites, and it seems that the local population had definitely expanded. It is during the Late Archaic that the first formal cemeteries appear. Before this time individuals were interred close to the location where they died. During the Late Archaic, if an individual died while his or her group happened to be at some distance from their group cemetery, the bones would be kept until they could be placed in the cemetery. Consequently, it is not unusual to find disarticulated skeletons, or even skeletons lacking minor elements such as fingers, toes or ribs, in Late Archaic burial pits.

The appearance of formal cemeteries during the Late Archaic has been interpreted as a response to increased population densities and competition between local groups for access to resources. It is argued that cemeteries would have provided strong symbolic claims over a local territory and its resources. These cemeteries are often located on heights of well-drained sandy/gravel soils adjacent to major watercourses.

This suggestion of increased territoriality is also consistent with the regionalized variation present in Late Archaic projectile point styles. It was during the Late Archaic that distinct local styles of projectile points appear. Also, during the Late Archaic the trade networks which had been established during the Middle Archaic continued to flourish. Native copper from northern Ontario and marine shell artifacts from as far away as the Mid-Atlantic coast are frequently encountered as grave goods. Other artifacts such as polished stone pipes and banded slate gorgets also appear on Late Archaic sites. One of the more unusual and interesting of the Late Archaic artifacts is the birdstone. Birdstones are small, bird-like effigies usually manufactured from green banded slate.

Woodland Period

The Early Woodland Period (2900 – 2350 BP) is distinguished from the Late Archaic Period primarily by the addition of ceramic technology. While the introduction of pottery provides a useful demarcation point for archaeologists, it may have made less difference in the lives of the Early Woodland peoples. The first pots were thick walled and friable. It has been suggested that they were used in the processing of nut oils by boiling crushed nut fragments in water and skimming off the oil. These vessels were not easily portable, and individual pots must not have enjoyed a long use life. There have also been numerous Early Woodland sites located at which no pottery was found, suggesting that ceramic vessels had yet to assume a central position in the day-to-day lives of Early Woodland peoples.

Other than the introduction of this limited ceramic technology, the lifeways of Early Woodland peoples show a great deal of continuity with the preceding Late Archaic Period. For instance, birdstones continue to be manufactured, although the Early Woodland varieties have "pop-eyes" which protrude from the sides of their heads.

Likewise, the thin, well-made projectile points which were produced during the terminal part of the Archaic Period continue in use. However, the Early Woodland variants were side-notched rather than corner-notched, giving them a slightly altered and distinctive appearance.

The trade networks which were established in the Middle and Late Archaic also continued to function, although there does not appear to have been as much traffic in marine shell during the Early Woodland Period. During the last 200 years of the Early Woodland Period, projectile points manufactured from high quality raw materials from the American Midwest begin to appear on sites in southwestern Ontario.

In terms of settlement and subsistence patterns, the Middle Woodland (2350 – 1400 BP) provides a major point of departure from the Archaic and Early Woodland Periods. While Middle Woodland peoples still relied on hunting and gathering to meet their subsistence requirements, fish were becoming an even more important part of the diet.

In addition, Middle Woodland peoples relied much more extensively on ceramic technology. Middle Woodland vessels are often heavily decorated with hastily impressed designs covering the entire exterior surface and upper portion of the vessel interior. Consequently, even very small fragments of Middle Woodland vessels are easily identifiable.

It is also at the beginning of the Middle Woodland Period that rich, densely occupied sites appear along the margins of major rivers and lakes. While these areas had been utilized by earlier peoples, Middle Woodland sites are significantly different in that the same location was occupied off and on for as long as several hundred years and large deposits of artifacts often accumulated. Unlike earlier seasonally utilized locations, these Middle Woodland sites appear to have functioned as base camps, occupied off and on over the course of the year. There are also numerous small upland Middle Woodland sites, many of which can be interpreted as special purpose camps from which localized resource patches were exploited. This shift towards a greater degree of sedentism continues the trend witnessed from at least Middle Archaic times and provides a prelude to the developments that follow during the Late Woodland Period.

The Late Woodland Period began with a shift in settlement and subsistence patterns involving an increasing reliance on corn horticulture (Fox 1990: 185; Smith 1990; Williamson 1990: 312). Corn may have been introduced into southwestern Ontario from the American Midwest as early as 1500 BP or a few centuries before. Corn did not become a dietary staple, however, until at least three to four hundred years later, and then the cultivation of corn gradually spread into south-central and southeastern Ontario.

During the early Late Woodland, particularly within the Princess Point Complex (circa 1450 – 900 BP), a number of archaeological material changes have been noted: the appearance of triangular projectile point styles, first seen during this period begin with the Levanna form; cord-wrapped stick decorated ceramics using the paddle and anvil forming technique replace the mainly coil-manufactured and dentate stamped and pseudo-scallop shell impressed ceramics; and if not appearance, increasing use of maize (Zea mays) as a food source (e.g., Bursey 1995; Crawford et al. 1997; Ferris and Spence 1995: 103; Martin 2004 [2007]; Ritchie 1971: 31-32; Spence et al. 1990; Williamson 1990: 299).

The Late Woodland Period is widely accepted as the beginning of agricultural life ways in south-central Ontario. Researchers have suggested that a warming trend during this time may have encouraged the spread of maize into southern Ontario, providing a greater number of frost-free days (Stothers and Yarnell 1977). Further, shifts in the location of sites have also been identified with an emphasis on riverine, lacustrine and wetland occupations set against a more diffuse use of the landscape during the Middle Woodland (Dieterman 2001).

The first agricultural villages in southern Ontario date to the 10th century. Unlike the riverine base camps of the Middle Woodland Period, these sites are located in the uplands, on well-drained sandy soils. Village sites dating between 1050 – 650 BP share many attributes with the historically reported Late Woodland sites, including the presence of longhouses and sometimes palisades. However, these early longhouses were not all that large, averaging only 12.4 metres in length (Dodd et al. 1990: 349; Williamson 1990: 304-305). It is also quite common to find the outlines of overlapping house structures, suggesting that these villages were occupied long enough to necessitate re-building.

The Jesuits reported that the Huron moved their villages once every 10-15 years, when the nearby soils had been depleted by farming and conveniently collected firewood grew scarce (Pearce 2010). It seems likely that Early Late Woodland peoples occupied their villages for considerably longer, as they relied less heavily on corn than did later groups, and their villages were much smaller, placing less demand on nearby resources.

Judging by the presence of carbonized corn kernels and cob fragments recovered from sub-floor storage pits, agriculture was becoming a vital part of the Early Late Woodland economy. However, it had not reached the level of importance it would in the Middle Late and Late Woodland Periods. There is ample evidence to suggest that more traditional resources continued to be exploited and comprised a large part of the subsistence economy. Seasonally occupied special purpose sites relating to deer procurement, nut collection, and fishing activities, have all been identified. While beans are known to have been cultivated later in the Late Woodland Period, they have yet to be identified on Early Late Woodland sites.

The Middle Late Woodland Period (650 – 550 BP) witnessed several interesting developments in terms of settlement patterns and artifact assemblages. Changes in ceramic styles have been carefully documented, allowing the placement of sites in the first or second half of this 100-year period. Moreover, villages, which averaged approximately 0.6 ha in extent during the Early Late Woodland Period, now consistently range between 1 and 2 ha.

House lengths also change dramatically, more than doubling to an average of 30 m, while houses of up to 45 m have been documented. This increase in longhouse length has been variously interpreted. The simplest possibility is that increased house length is the result of a gradual, natural increase in population (Dodd et al. 1990: 323, 350, 357; Smith 1990). However, this does not account for the sudden shift in longhouse lengths around 650 BP. Other possible explanations involve changes in economic and socio-political organization (Dodd et al. 1990: 357).

One suggestion is that during the middle Late Woodland Period small villages were amalgamating to form larger communities for mutual defense (Dodd et al. 1990, p. 357). If this was the case, the more successful military leaders may have been able to absorb some of the smaller family groups into their households, thereby requiring longer structures. This hypothesis draws support from the fact that some sites had up to seven rows of palisades, indicating at least an occasional need for strong defensive measures. There are, however, other middle Late Woodland villages which had no palisades present (Dodd et al. 1990). More research is required to evaluate these competing interpretations.

The lay-out of houses within villages also changes dramatically by 650 BP. During the early Late Woodland Period villages were haphazardly planned, with houses oriented in various directions. During the Middle Late Woodland Period villages are organized into two or more discrete groups of tightly spaced, parallel aligned, longhouses. It has been suggested that this change in village organization may indicate the initial development of the clans which were a characteristic of the historically known Iroquoian peoples (Dodd et al. 1990: 358).

Initially at least, the late Late Woodland Period (550 – 350 BP) continues many of the trends which have been documented for the proceeding century. For instance, between 500 and 450 BP house lengths continue to grow, reaching an average length of 62 m. One longhouse excavated on a site southwest of Kitchener was an incredible 123 m (Lennox and Fitzgerald 1990: 444-445). After 450 BP, house lengths begin to decrease, with houses dating between 400 – 320 BP averaging 30 m in length.

Why house lengths decrease after 450 BP is poorly understood, although it is believed that the even shorter houses witnessed on historical period sites can be at least partially attributed to the population reductions associated with the introduction of European diseases such as smallpox (Lennox and Fitzgerald 1990:405, 410). Village size also continues to expand throughout the late Late Woodland Period, with many of the larger villages showing signs of periodic expansions. The latter part of the middle Late Woodland Period and the first century of the late Late Woodland Period was a time of village amalgamation. One large village situated just north of Toronto has been shown to have expanded on no fewer than five occasions. These large villages were often heavily defended with numerous rows of wooden palisades, suggesting that defence may have been one of the rationales for smaller groups banding together. Late Late Woodland village expansion has been clearly documented at several sites throughout southwestern and south-central Ontario. The excavations at the Lawson site, a large village located in southwestern Ontario, has shown that the original village was expanded by at least twenty percent to accommodate the construction of nine additional longhouses (Anderson 2009).

1.3.2 Post-Contact Regional History

Following European settlement in North America, the nature of Indigenous settlement size, population distribution, and material culture shifted as settlers began to colonize the land. Despite this shift in Indigenous life ways, “written accounts of material life and livelihood, the correlation of historically recorded villages to their archaeological manifestations, and the similarities of those sites to more ancient sites have revealed an antiquity to documented cultural expressions that confirms a deep historical continuity to Iroquoian systems of ideology and thought” (Ferris 2009: 114). As a result, Indigenous peoples of southern Ontario have left behind archaeologically significant resources throughout southern Ontario which show continuity with past peoples, even if this connection has not been recorded in historical Euro-Canadian documentation.

The Study Area is situated within the former Toronto Township, County of Peel, now City of Mississauga, Regional Municipality of Peel, Ontario. This geographic area was inhabited by the Mississauga First Nation at the time of initial Euro-Canadian contact. This nation subsequently ceded lands to Chief Joseph Brant and the Crown through four separate treaties from 1805 to 1820 (Morris 1943: 22-25). The course and details of these events are summarized briefly below:

- *Treaty No. 13A (The First Purchase):* August 2, 1805 – This treaty comprises the fronts of the Townships of Toronto, Trafalgar and Nelson, except the 3,450 acres granted to Chief Joseph Brant in 1797. It includes 74,000 acres of land excluding a one-mile strip on each side of the Credit River from the waterfront to the base line (modern Eglinton Avenue), which was the Credit Indian Reserve (Heritage Mississauga 2009). It is described as follows (Morris 1943: 22):

  > *Commencing at the eastern bank of the mouth of the River Etobicoke, being in the limit of the western boundary line of the Toronto Purchase, in the year 1787; then north twenty-two degrees west, six miles; thence south 38 degrees west, twenty-six miles more or less, until it intersects a line on the course north 45 degrees west, produced from the outlet of Burlington Bay; then along the said produced line, one mile more or less to the lands granted to Captain Brant; then north 45 degrees east, one mile and a half; then south 45 degrees east, three miles and a half more or less to Lake Ontario; then north easterly along the waters edge of Lake Ontario to the eastern bank of the River Etobicoke being the place of beginning.*

- *Treaty No. 19 (The Second Purchase)*: October 28, 1818 – An agreement reached by the Principal Men of the Mississauga Nation of Indians, inhabiting the River Credit, and Twelve- and Sixteen-Mile Creeks on the north Shore of Lake Ontario. Over 600,000 acres of land, representing most of what is known today as the Region of Peel, were surrendered (Heritage Mississauga 2009). The tract of land was described as follows (Morris 1943: 24):

  > *A tract of land in the Home District called the Mississague Tract, bounded southerly by the purchase made in 1806; on the east by the Townships of Etobicoke, Vaughan and King; on the south west by the Indian Purchase, extending from the outlet of Burlington Bay, north forty-five degrees west, fifty miles; and from thence north seventy-four degrees east or thereabouts, to the north west angle of the Township of King.*

- *Treaty No. 22*: February 28, 1820 – ". . . the Principal Chiefs, Warriors and People of the Mississauga Nation transferred to His Majesty George the Third for the sum of 20 shillings, parts of those tracts of land at Credit River, Sixteen Mile Creek and Twelve Mile Creek, formerly reserved in Treaty 13A . . ." (Morris 1943: 25).

- *Treaty No. 23*: February 28, 1820 – "… the Principal chiefs, Warriors and People of the Mississauga Nation, transferred to His Majesty George the Third for the sum of 50 pounds, parts of those tracts of land at Credit River, Sixteen Mile Creek, and Twelve Mile Creek, formerly reserved in 13A . . ." (Morris 1943: 25).

By 1821, the Mississauga First Nation had surrendered most of the Credit Indian Reserve lands set aside in 1805 in the final two "Credit Treaties." In 1847, the remaining members of the Mississaugas relocated to the New Credit Reserve (now Mississaugas of the Credit First Nation) in Hagersville (Heritage Mississauga 2009). The geographic area now known as the City of Mississauga has since been farmed, settled and developed by families and communities of European descent.

1.3.3 Toronto Township, Peel County

Toronto Township was established during the "Old Survey" of 1806 following the signing of Treaty 13A (Heritage Mississauga 2009); this survey established the southern half of the township (Riendeau 1985: 23). Just over a decade later, after the signing of Treaty 19, the "New Survey" of the area, which occurred in 1819, divided the acquired lands into the Townships of Toronto, Chinguacousy, Caledon, Albion and Toronto Gore (Heritage Mississauga 2009); this survey established the northern half of the Township (Riendeau 1985: 23). Toronto Township was incorporated in 1850 as a primarily rural society (City of Mississauga 2004).

Peel County and its townships were originally settled by British soldiers and their families, many of whom served with the Queen's Rangers, during the late 18th century and into the early 19th century (Bull 1935).
As the number of farmsteads and homesteads within the county grew, several villages and communities were established. Those that thrived into the 20th century and were amalgamated into the City of Mississauga in 1974 include: Clarkson, Cooksville, Dixie, Erindale, Malton, Meadowvale, Port Credit and Streetsville (Heritage Mississauga 2009). These villages assisted in the processing of local natural resources including lumber, grain and other farm products (City of Mississauga 2004). Port Credit, Streetsville and Meadowvale thrived early on given their location on the Credit River, a transportation route and the site of several lumber and grist mills (City of Mississauga 2004).

With the establishment of military headquarters at York, there was a need to develop and maintain reliable ground transportation routes for provisioning both soldiers and supplies throughout Upper Canada. Dundas Street was the first major "highway" constructed in the region, by military engineers (Bull 1935). This main transportation route was subsequently used by various Loyalist settlers following the surveying and establishment of new townships and communities. The existing forests were cut down for the growing of crops and the raising of livestock.

The arrangement of people within Toronto Township changed once again in the mid-19th century with the establishment of the railways. This influenced the development of southern villages including Clarkson and Lorne Park which were affiliated with the Great Western Railway and northern villages such as Malton, which was affiliated with the Grand Trunk Railway (City of Mississauga 2004).

1.3.3.1 Missinnihe/Credit River

The water source known as present-day Credit River was named Missinnihe ("trusting creek") by the Mississaugas. The Mississaugas used the river and its surrounding area for hunting, fishing, gathering, healing, and spiritual purposes (MCFN 2018). A trading post was established at the mouth of the river by the French in the 18th century, which enabled the trade of pelts gathered over the winter for European goods.

The Missinnihe was renamed the Rivière au Crédit by the French, which translated to Credit River, and referred to the traders' practice of extending credit to the Mississaugas in the fall and then being repaid the following spring with the winter's catch of furs. The Mississaugas located at the western end of the lake became known to the Europeans as the Mississaugas of the Credit.

1.3.3.2 Port Credit

Old Port Credit Village was first formally surveyed in 1834, and the first sale of lots being held at a public auction in Toronto in 1835 (Smith 1846: 148). By 1842, a post office was established in the village, at which time the name of the community "officially" became Port Credit. The name had been in use since at least 1835, or slightly before that time (Walton 1837; Rayburn 1997: 276; Scott 1997: 182).

Plans for a formal harbour at Port Credit date back to March 1828, when an act was passed by the government of Upper Canada for the construction of a harbour at the nearby Sixteen Mile Creek in Oakville (9 Geo. IV c. 19). Further legislation was passed in March 1834, which incorporated the "Credit Harbour Company" as a joint-stock company, and provided for a loan to assist with the work then in progress. The work of improving the harbour was undertaken at an estimated cost of £2,500. The Mississaugas acquired a 2/3 interest in this company. Work on the harbour was contracted to E.W. Thomson, and harbour tolls were collected to recoup the investment (Smith 1851: 276; Smith 1987: 157; Robb 2003 9).

During the mid-1840s, a large quantity of farm produce and timber was shipped from Port Credit. The primary goods shipped from Port Credit in 1844 included: wheat, flour, pork, ashes, whiskey, timothy seed, wool, lumber, and oak and pine “squared timber.” As late as 1876, it was recorded that Clarkson and Chisholm bought and shipped 100,000 bushels of wheat from the harbour at Port Credit (Smith 1846: 149; Kirkwood 1967: 257). The population at this time reached 150, and the village had a Methodist church, blacksmith shop, schoolhouse, post office, and other small businesses.

Shipbuilding is said to have been carried on at the mouth of the Credit as early as 1809, but it became a major industry there by the 1840s. Five schooners “of a good class” were then owned by local merchants and businessmen. The community was linked by steamer service to Toronto and Hamilton in the period before the advent of the railways (Smith 1846: 149; Gibson 2002: 180).

By 1851, the population of the village had increased to about 200 inhabitants. It was described as the “shipping place for a large extent of fertile and well-cultivated country” (Smith 1851:276). In 1857, the population of Port Credit had reached 400 inhabitants, and many of the families were connected to the shipbuilding trade. The introduction of the Great Western Railway (GWR) to the area aided communication and travel from Port Credit to both Toronto and Hamilton, however, it also diverted a portion of the shipping activity away from the harbour (Riendeau 1985). The Port Credit rail station was opened in December 1855, near Stavebank Road. (Clarkson 1967). In 1855, the harbour suffered from a fire, causing the shipping activity to be further affected. By the mid-1860s, the population decreased to 350.

The harbour in 1851 was still bordered “by a considerable breadth of marsh” (Smith 1851:276). At that time, a new bridge was under construction. It was considered a necessary work, “the old bridge having been for years in a dangerous state” (Smith 1851: 276). The first wooden bridge at the mouth of the Credit was built in 1820. It was replaced by a second structure of timber truss construction, erected in 1832 at a cost of £50 by local merchants Chisholm and Gamble. This bridge was damaged in a flood in 1850 and replaced by another wooden one that was under construction in 1851. It stood until September 1895, when it was washed away in a storm and later replaced by an “iron bridge”. This bridge was replaced by concrete, bow-string structure in 1919. The concrete bridge is known to have remained in use until at least 1949, but it had been replaced by a more modern, four-lane, concrete structure in 1960-61 (Kirkwood 1967: 257; Gibson 2002: 181; Robb 2003: 23; Hicks 2007: xxxiv-xxxv).

During the 1850s, the “Lake Road” was purchased by the Toronto Road Company, which collected tolls and was responsible for its maintenance. Between 1914 and 1917, Lakeshore Road was cemented under the supervision of the Toronto-Hamilton Highway Commission. It became known as Highway 2 upon the completion of the work on the entire length of this road in 1922 (Gibson 2002: 188; Hicks 2007: xxviii).

By the close of the 19th century, the St. Lawrence Starch Company had located here, as well as a few brickyards. During the 20th century, a few oil refineries also located in the area which provided additional employment opportunities for the village.

By 1900, the population had increased to 650, making Port Credit the largest village in Toronto Township (Riendeau 1985). In 1909, Port Credit became a Police Village as its population had reached 750 residents, and by 1914, Port Credit incorporated as a Village. By 1945, the population of the village had reached 2,325, and it was elevated to a town by an act of the Provincial legislature in 1961. At that time, its population had increased by over 6,500. It was annexed to the City of Mississauga in 1974 (Kirkwood 1967: 258; Rayburn 1997: 276; Gibson 2002: 188; Robb 2003: 17).

1.3.4 Study Area History

A review of the 1859 Historical County Map of Peel County (Tremaine 1859) (Map 3) identifies the Study Areas in relation to the Port Credit Town Plot. A railway is located adjacent to Study Area 4. In 1859, Study Area's 1-3 are located within lands owned by R. & J. Cotton which are adjacent to Lake Ontario. Robert Cotton owned the lands west of the railway where Study Areas 4 and 5 are situated (Tremaine 1859).

The 1877 Map of the Township of Toronto (Walker & Miles 1877) (Map 4) shows Study Areas 1-3 to reside within the lands of Robert Cotton Esq. while Study Areas 4 and 5 reside within the lands of James W. Cotton, who is shown to own the land to the west of the railway.

Robert Cotton emigrated from Ireland to Canada in 1837 where he became a well-known merchant and farmer in Toronto Township (Canadian Historic Places ND). Cotton held several offices in the community including the Justice of Peace in 1850. Cotton purchased land on the west side of Old River Road and had a house built in 1856 (Canadian Historic Places ND). Upon his death in 1885, Robert Cotton transferred the Cotton Homestead to James W. Cotton, his brother. James worked alongside Robert as a postmaster, storemaster and was the owner of a Wharf. The Cotton brothers are considered to be the "Fathers" of Port Credit (Canadian Historic Places ND).

Aerial photographs (Map 5) show the history of the development of the Study Area from the mid-20th century onward. In 1954, the Study Areas 1 and 2 are located within commercial and industrial areas and Study Areas 3-5 are located within undeveloped parkland and agricultural fields. By 1966, the mouth of the Credit River has been substantially altered by the construction of the Port Credit Harbour Marina. Study Areas 1 and 2, which are adjacent to the Elmwood SPS, within the present Tall Oaks Park, appears to have been redeveloped from industrial to residential and parkland during the late 1990s. Study Area 3, located adjacent to the Hiawatha SPS within the current Hiawatha Park does not appear to have undergone significant alterations since the 1950s. Study Area 4, which is adjacent to the Rosemere SPS shows no significant landscape alterations other than the construction of the station. Study Area 5 does not show any significant landscape alterations since the 1950s.

1.4 Archaeological Context

1.4.1 Study Area Environment

The Study Areas are located within the City of Mississauga on the north shore of Lake Ontario. They are situated within the Iroquois Plain physiography region which extends from the western part of Lake Ontario to the Trent River (Chapman and Putnam 1984: 190). The Iroquois Plain physiography region was formed during the last Glaciation when the region was covered by a water body known as Lake Iroquois. Its width varies from several hundred meters up to 13 km. This plain is the remnant shoreline of glacial Lake Iroquois and was smoothed over time by wave action and lacustrine deposits. Now this physiographic region is composed of a thin veneer of glacio-lacustrine sand and silty sand. These sandy soils once supported forests, savannahs, and prairies, populated by species of the Carolinian Ecoregion at close to their northern extent. The Iroquois Plain was a general farming area, with a tendency for horticulture and growth of canning crops. Since World War II, the remaining farms have become larger while much of the land has been put to urban uses.

The surficial geology consists of interbedded flow till in Study Areas 1-3, and foreshore basin deposits entirely within Study Areas 4 and 5 (Map 6).

1.4.2 Previous Archaeological Assessments

Several Archaeological Assessments have previously been conducted within 50 m of the Study Area (Map 7).

ASI conducted Stage 1 and 2 Archaeological Assessment along Mona Road which resulted in the discovery of AjGv-83, an Archaic and Woodland campsite (ASI 2016a; 2016b). The site was subsequently subject to Stage 3 Archaeological Assessment and Stage 4 Mitigation, where by it was fully documented and excavated and concluded to have no further cultural heritage value or interest (ASI 2016c; 2016d). This archaeological work took place approximately 50 m northeast of the current Study Area 4 and adjacent to the current Study Area 5.

In 2017, ASI (2017) undertook a Stage 1 Archaeological Assessment for three SPS upgrades, one of which was the Rosemere SPS. Portions of the Rosemere Road Study Area assessed by ASI were identified as having archaeological potential and recommended for Stage 2 Archaeological Assessment. The Stage 2 Archaeological Assessment found the entire Rosemere SPS Study Area was disturbed and made the following recommendations (ASI 2018:i):

1) *The Study Area for the Mississauga Sewage Pumping Station Upgrades, including the Rosemere Road, Indian Road, and Silver Birch Trail sewage pumping stations, has been fully documented, and no further archaeological assessment is required on these lands; and*

2) *Should the proposed work extend beyond the current Study Area, further archaeological assessment must be conducted to determine the archaeological potential of the surrounding lands.*

The Stage 1 and 2 Archaeological Assessments completed by ASI overlap with the eastern portion of Study Area 4.

In 2018, 4Transit, a joint venture of Hatch, Parsons, and WSP, conducted a Stage 1 Archaeological Assessment as part of the Building Rehab & Elevator Replacement – Port Credit and Port Credit GO Station Parking Structure Joint Development (2018). The Stage 1 Archaeological Assessment determined parts of the project area have archaeological potential requiring a Stage 2 Archaeological Assessment. The western limits of the area assessed as part of the Stage 1 Archaeological Assessment is located approximately 17 m southeast of Study Area 4 and approximately 43 m southeast of Study Area 5.

In 2020, Golder Associates Ltd., now WSP Canada Inc, conducted a Stage 1 Archaeological Assessments as part of a Schedule ‘C’ Municipal Class Environmental Assessment for the proposed Port Credit East Water and Wastewater Servicing Optimization EA (Golder 2021a). The Stage 1 Archaeological Assessments determined portions of the Study Area to have archaeological potential requiring Stage 2 Archaeological Assessment and made the following recommendations:

1) *Stage 2 archaeological assessment is required for the portion of the study area that retains archaeological potential as shown on Map 9. The stage 2 archaeological assessment should be a test pit survey at 5 m intervals following the standards outlined in Section 2.1.2 of the MHSTCI’s (2011) Standards and Guidelines.*

2) *As per Standard 1f of Section 1.4.1 (MHSTCI 2011), no additional archaeological assessment is required for the areas identified as disturbed on Map 9.*

3) *Should development impacts extend beyond the project study area, additional archaeological assessment may be required.*

In 2023, WSP completed a Stage 1 archaeological assessment for 7 additional areas added to the project. WSP (2023) made the following recommendations:

1) *Lands that have been previously subjected to Archaeological Assessment(s) and cleared by the MCM of further archaeological concern are recommended to be exempt from further Archaeological Assessment.*

    a) *The portion of Study Area 4 that consists of the Rosemere SPS was previously assessed and no further assessment was recommended for that area (ASI 2017; Map 9D).*

b) Study Area 7 has been previously assessed and no further assessment was recommended for that area (WSP 2018; Map 9G).

2) The Stage 1 Archaeological Assessment has determined there is potential for the identification of archaeological resources within portions of the Study Area:

a) Study Area 1; Stage 2 test pit survey is recommended within a portion of the Study Area (Map 9A).

b) Study Area 4; Stage 2 test pit survey is recommended within a portion of the Study Area (Map 9D).

c) Study Area 6; Stage 2 test pit survey is recommended within a portion of the Study Area (Map 9F).

Stage 2 test pit survey at 5 m intervals is recommended for these areas prior to ground disturbance activities in accordance with Section 2.1.2 of the MCM's Standards and Guidelines for Consultant Archaeologists (2011). Test pits should be 30 cm in diameter and hand excavated 5 cm into sterile subsoil. If artifacts are recovered their location should be recorded with a GPS unit and test pit intervals reduced to 2.5 m within 5 m of the positive test pit, as well as a 1 m test unit if necessary.

3) Areas of previous disturbance were identified in portions of the Study Area. These areas of disturbance include parking lots, sidewalks/paved public spaces, and landscape design areas (i.e. gardens, grass boulevards) or past disturbance documented in historical aerial photographs. The Stage 1 Archaeological Assessment property inspection determined there is low potential for the identification of archaeological resources in portions of the Study Area:

a) Study Area 1; Low archaeological potential within portions of the Study Area; no further Archaeological Assessment is recommended for these areas (Map 9A).

b) Study Area 2; Low archaeological potential within portions of the Study Area; no further Archaeological Assessment is recommended for these areas (Map 9B).

c) Study Area 3; Low archaeological potential within Study Area; no further Archaeological Assessment is recommended (Map 9C).

d) Study Area 4; Low archaeological potential within portions of the Study Area; no further Archaeological Assessment is recommended for these areas (Map 9D).

e) Study Area 5; Low archaeological potential within the entire Study Area; no further Archaeological Assessment is recommended for these areas (Map 9E).

1.4.3 Registered Archaeological Sites

The Ontario Archaeological Sites Database (OASD) was consulted on November 16, 2022, and it was determined that there are 23 registered archaeological sites located within 1 km of the greater Study Area (Table 2). Of the 23 archaeological sites, two are located within 300 m of Study Area 4, with one located within 300 m of Study Area 5.

Table 2: Registered Archaeological Sites within 1 km of the Study Area

Borden Number	Name	Time Period	Cultural Affiliation	Site Type	Current Development Review Status	Study Area within 1 km
AjGv-1*	Hare	Pre-Contact	Archaic, Woodland, Middle	Campsite	Further CHVI	1, 2, 4, 5
AjGv-4	Stillmeadow	Pre-Contact	Woodland	Camp/campsite	Further CHVI	4, 5
AjGv-5	Glenburny	Pre-Contact	Indigenous	Campsite	No further CHVI	1, 2, 4, 5
AjGv-8	Eley	Pre-Contact	Archaic	Campsite	Further CHVI	1, 2, 4, 5
AjGv-9	Avonbridge	Pre-Contact	Archaic	Campsite	No further CHVI	1, 2, 4, 5
AjGv-10	Stavebank	–	–	–	No further CHVI	1, 2, 4, 5
AjGv-11	Port Street	–	–	–	No further CHVI	1, 2, 4, 5
AjGv-12	Pinewood Trail	–	–	–	–	5
AjGv-13	Fort Toronto	Post-Contact	Mississauga	Village	No further CHVI	4, 5
AjGv-17	Nunan	–	–	–	–	5
AjGv-32	Scott-O'Brien	Pre-Contact	Archaic, Middle, Woodland, Early, Woodland, Middle	–	–	4, 5
AjGv-39	Adamson Estate	Post-Contact	Euro-Canadian	Homestead, other buildings	Further CHVI	1, 2, 3
AjGv-46	–	Pre-Contact	Indigenous	Findspot	–	5
AjGv-47	–	Pre-Contact	Indigenous	Findspot	–	5
AjGv-48	–	Pre-Contact	Indigenous	Findspot	–	5
AjGv-50	Atoka	Pre-Contact	Woodland, Early, Woodland, Middle	Scatter	–	5
AjGv-57	Rewa	Pre-Contact	Woodland, Middle	Burial	Further CHVI	4, 5
AjGv-71	James Taylor	Post-Contact	Euro-Canadian	Warehouse	Further CHVI	1, 2, 4, 5
AjGv-73	AjGv-73	Pre-Contact	Woodland, Middle	Scatter	Further CHVI	4, 5
AjGv-74	AjGv-74	Pre-Contact	Woodland	Short term	Further CHVI	4, 5
AjGv-75	AjGv-75	Pre-Contact	Indigenous	Scatter	No further CHVI	4, 5
AjGv-83**	AjGv-083	Pre-Contact	Archaic, Late Archaic, Middle, Woodland	Camp/campsite	Further CHVI	1, 2, 4, 5
AjGv-84	Kane	Post-Contact	Woodland	Unknown	Further CHVI	4, 5
AjGv-95	Tall Oaks	Pre-Contact	Indigenous	Scatter	Further CHVI	2, 3, 4, 5

– *denotes information was not available on the OASD*
* *denotes site within 300 m of Study Area 4*
** *denotes site within 300 m of Study Area 4 and 5*

The site form on the OASD states that AjGv-1 (Hare) was identified as a pre-contact Indigenous campsite in 1971. The site is located on the bank of the Credit River and has been dated to the Archaic (Laurentian) and Middle Woodland periods. AjGv-1 (Hare) consists of an unknown amount of ceramic material and lithics. It was believed to have been destroyed by development. However, a further investigation by York University found evidence of ceramic material and lithics which proves the site is not destroyed and retains some cultural heritage value or interest. The site is located approximately 200 m west of Study Area 4.

AjGv-83 was identified through Stage 2 test pit survey in 2016 by ASI under PIF no. P046-0158-2016 (ASI 2016b). The site consisted of Indigenous artifacts within an area measuring 5 m by 2 m. The site was subjected to Stage 3 test unit excavation under PIF no. P223-0103-2016 and resulted in the recovery of 61 artifacts in an area measuring 20 m by 15 m (ASI 2016b). The site was recommended for Stage 4 archaeological mitigation, which was also completed in 2016 and which resulted in an additional 832 artifacts being recovered in an area measuring 40 m by 40 m (ASI 2016b). Based on the features uncovered and the artifacts recovered, AjGv-83 is identified as Middle to Late Archaic and Woodland campsite. While the site within the project area underwent full mitigation under PIF no. P223-0107-2016, it was noted in the site record that the MCM concluded the site may extend beyond the subject property ASI investigated and therefore may still have further cultural heritage value or interest. The site is located approximately 100 m north of Study Area 4 and approximately 130 m west of Study Area 5.

1.4.4 Cultural Heritage Resources

According to the City of Mississauga's *Heritage Designation Properties* gallery (2020), the City of Mississauga's *Heritage Register* (2018), the City of Mississauga's *Cultural Heritage Landscape Inventory* (2005), the City of Mississauga's *Cultural Heritage Landscape Project* (ND), and re-utilizing research from a Stage 1 Archaeological Assessment report obtained during a consultation with heritage planning staff at the City of Mississauga, three protected heritage properties designated under Part IV of the *Ontario Heritage Act*, and two cultural heritage landscapes listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* are within the Study Area or within 300 m of its boundaries (Table 3; Map 8). Per Section 1.3 and 1.4 of the *Standards and Guidelines for Consultant Archaeologists* (MCM 2011), property listed on a municipal register or designated under the *Ontario Heritage Act* or that is a federal, provincial, or municipal historic landmark or site is indicative of archaeological potential.

Table 3: Known Cultural Heritage Resources within 300 m of the Study Area

Civic Address or Location	Description	Cultural Heritage Status	Study Area within or within 300 m
40 Stavebank Road	Port Credit Memorial Arena, constructed 1959	Protected heritage property designated under Part IV of the *OHA* (By-law 261-2011)	4, 5
29 Stavebank Road North	Cenotaph Park, Cenotaph constructed in 1925	Protected heritage property designated under Part IV of the *OHA* (By-law 118-84)	4, 5
Old Port Credit	Located west of the Credit River and straddling Lakeshore Road	Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes*	4, 5
141 Lakeshore Road East	St. Lawrence Starch Limited Administration Building, constructed in 1932	Protected heritage property designated under Part IV of the *OHA* (By-law 446-93)	1,2
Mineola Neighbourhood	Located north of Lakeshore Road bounded by the Credit River on the west and Hurontario on the east	Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes*	4, 5

2.0 FIELD METHODS

The Stage 2 Archaeological Assessment was conducted on November 8 and 9, 2021 and October 24, 2022, under the professional archaeological consulting licence P468 issued to Rhiannon Fisher of WSP (PIF: P468-0083-2021). WSP archaeological field supervisor Martha Tildesley (P399) acted as the licensed field director during the Stage 2 Archaeological Assessment as per *Section 12* of the MCM' *Terms and Conditions for Archaeological Licences*, issued in accordance with clause 48(4)(d) of the *Ontario Heritage Act*. The weather during the survey was mainly sunny with some cloud cover, slight breeze, and a temperature high of 16°C. The weather and lighting conditions during the Stage 2 fieldwork permitted good visibility of all parts of the Study Area and were conducive to the identification and recovery of archaeological resources.

The Stage 2 Archaeological Assessment employed strategies defined by the MCM in the 2011 *Standards and Guidelines for Consultant Archaeologists*. The overall Stage 2 Study Area encompassed five distinct areas. Study Areas 1 and 2 are within the current Tall Oaks Park. Study Area 1 is located within an open, manicured lawn with saplings and walking paths and is situated along the waterfront of Lake Ontario. Study Area 2 is located northeast of Study Area 1 and surrounds the Elmwood SPS building. The area consists of manicured lawns, large oak trees, a small overgrown brush area, walking paths and is also situated along the waterfront of Lake Ontario. Study Area 3 is also a park setting, within the current Hiawatha Park and consists of manicured lawns and large trees. Only a portion of the park was recommended for testing (Map 9). The Hiawatha SPS is located within the north western portion the Study Area. There is a walking path that runs from the road to the waterfront. Study Area 4 is a small, manicured lawn adjacent to the Rosemere SPS. The area is mostly sloped down toward the Kenollie Creek and up to the roadway. There is a small, flat grass area between the fence and the slope to the road. Study Area 5 is a small, manicured lawn located at the southeast end of Mona Road, adjacent to the roadway. Photo documentation of the Stage 2 fieldwork conducted within the Study Area is provided in Images 1-24 (pp. 29-40). and Map 10.

2.1 Study Area 1

The Study Area located within the current Tall Oaks Park is approximately 0.07 ha and was assessed by means of archaeological test pit survey. The test pit survey was conducted at 5 m intervals to start. However, the soils were not natural, and evidence of disturbance was identified above the natural subsoil. The test pit survey was then conducted at 10 m along survey transects as per *Section 2.1.8. Standard 2* (Image 1, p. 29). Each test pit was at least 30 cm in diameter and hand excavated by shovel and trowel. Where possible, test pits were excavated at least 5 cm into the subsoil which ranged in depth from 40 to 50 cm. Study Area 1 was observed to exhibit disturbance and amounts to 100% of the Study Area (Map 10A). The disturbed pits exhibited disturbance in the form of medium brown clay mottled with asphalt and gravel above yellow brown sandy loam (Image 2, p. 29) and irrigation pipes and sprinklers were found throughout (Image 3 and Image 4, p. 30). These areas were subject to test pit survey at 10 m intervals. Soil from all test pits was screened through a 6 mm hardware mesh to facilitate the identification and recovery of archaeological resources. All test pits were examined for stratigraphy, cultural features, and evidence of fill. Following excavation, all test pits were backfilled to original grade.

2.2 Study Area 2

Study Area 2 is approximately 0.34 ha and is located within the current Tall Oaks Park and surrounds the Elmwood SPS. This area consists of large oak trees, manicured lawns, an overgrown brush area, and a waterfront trail. The test pit survey involved the hand excavation of test pits every 5 m along survey transects spaced 5 m from each other creating a 5 m grid of test pits (Images 5 and 6, p. 31). Each test pit was at least 30 cm in diameter and hand excavated by shovel and trowel. Where possible, test pits were excavated at least 5 cm into the subsoil which ranged in depth from 24-34 cm. Portions of Study Area 2 were observed to exhibit

disturbance over natural subsoil and amounts to 30% (0.1 ha) of the Study Area (Image 7, p. 32; Map 10A). The remaining portion of Study Area 2 (0.24 ha) had a natural soil of medium brown sandy loam and the subsoil was a yellow-brown sandy loam (Image 8 and 9, pp. 32-33). The disturbed pits exhibited disturbance in the form of medium brown clay mottled with asphalt and gravel and were significantly deeper (~50 cm). These areas were subject to test pit survey at 10 m intervals as per *Section 2.1.8 Standard 2*. Areas of natural soil were subject to test pit survey at 5 m intervals. Soil from all test pits was screened through a 6 mm hardware mesh to facilitate the identification and recovery of archaeological resources. During the Stage 2 test pit survey, two findspots were found, Location 1 and Tall Oaks (AjGv-95). Location 1 had a single piece of Onondaga chert debitage in a positive test pit. When an artifact was recovered, the survey interval was maintained to determine the size of the artifact scatter and artifact recovery frequency. Recovered artifacts were inventoried by findspot locations and their location in 1983 North American Datum (NAD 83) coordinates were recorded in the field using a Garmin Etrex 10 handheld GPS with a minimal accuracy reading of 3 metres. Once the 5 m survey interval was completed, 8 test pits were excavated 2.5 m in each cardinal direction from the findspot, except for the northeast, east, and southeast test pits. These test pits were placed 1.5 m from the original positive test pit due to the location of a utility. A test unit was placed overtop of the original positive test pit (Image 10-11, pp. 33-34). The total depth was 24 cm, and zero artifacts were recovered. The second findspot, Tall Oaks (AjGv-95) consisted of 30 pieces of Onondaga chert debitage within a single positive test pit. When an artifact was recovered, the survey interval was maintained to determine the size of the artifact scatter and artifact recovery frequency. Recovered artifacts were inventoried by findspot locations and their location in 1983 North American Datum (NAD 83) coordinates were recorded in the field using a Garmin Etrex 10 handheld GPS with a minimal accuracy reading of 3 metres. As per *Section 2.2., Standards 1.a.ii (2)* of the MCM (2011), the recovery of at least 10 non-diagnostic pre-contact Indigenous artifacts within a 10 m by 10 m test pit survey area meets the criteria requiring Stage 3 Archaeological Assessment, therefore cardinal test pits and a test unit were not excavated. Following excavation, all test pits and units were backfilled to original grade.

2.3 Study Area 3

The Study Area located within the current Hiawatha Park is approximately 0.23 ha and was assessed by means of archaeological test pit survey. The test pit survey was conducted at 5 m intervals to start (Image 12, p. 34). However, the soils were not natural, and evidence of disturbance was identified over the natural subsoil. The test pit survey was then conducted at 10 m along survey transects as per *Section 2.1.8 Standard 2* (Image 13, p. 35). Each test pit was at least 30 cm in diameter and hand excavated by shovel and trowel. Where possible, test pits were excavated at least 5 cm into the subsoil which ranged in depth from 35 to 100 cm (Image 14-16, pp. 35-36). The entirety of Study Area 2 was observed to exhibit disturbance (Map 10B). The soil was a medium brown clay silt mottled with grey clay and subsoil was yellow-brown clay silt. Following excavation, all test pits were backfilled to original grade.

2.4 Study Area 4

The Study Area located adjacent to the Rosemere SPS is approximately 0.07 ha and was assessed by means of archaeological test pit survey. The test pit survey involved the hand excavation of test pits every 5 m along survey transects spaced 5 m from each other creating a 5 m grid of test pits (Image 17-18, p. 37). Each test pit was at least 30 cm in diameter and hand excavated by shovel and trowel. Where possible, test pits were excavated at least 5 cm into the subsoil which ranged in depth from 27-40 cm. There was a drainage pipe emptying into a low lying section and pits within this area filled with water and were too waterlogged, amounting to approximately 12% (0.008 ha) the Study Area (Image 19, p. 38). Test pit survey was moved to 10 m intervals as per *Section 2.1.8 Standard 2* when evidence of disturbance in the form of a medium brown clay with a yellow-brown subsoil mottled with grey clay throughout was revealed (Image 20-21, pp. 38-39). Previous assessments nearby indicated the

area had been affected by the construction of the Rosemere SPS (ASI 2017). This area has also likely been disturbed by the construction of infrastructure nearby (Map 10C). Following excavation, all test pits were backfilled to original grade.

2.5 Study Area 5

The Study Area located south of Mona Road and approximately 185 m northeast of the Rosemere SPS is 0.02 ha and was assessed by means of archaeological test pit survey (Map 10D). The test pit survey involved the hand excavation of test pits every 5 m along survey transects spaced 5 m from each other creating a 5 m grid of test pits (Images 22 to 23, pp 39-40). Each test pit was at least 30 cm in diameter and hand excavated by shovel and trowel. Where possible, test pits were excavated at least 5 cm into the subsoil which ranged in depth from 24-35 cm. Following excavation, all test pits were backfilled to original grade. A portion of the Study Area is sloped down to the creek (Image 24, p. 40) and could not be tested.

3.0 RECORDS OF FINDS

The Stage 2 Archaeological Assessment was conducted employing the methods described in Section 2.0. A *Garmin etrex 10* GPS device was employed, and the World Geodetic System (WGS) 84 Canadian Spatial Reference System (CSRS) was utilized to record all GPS readings to an accuracy of less than 3 m. A total of 32 artifacts, constituting two locations (Location 1 and Tall Oaks) were identified during the Stage 2 Archaeological Assessment of the Study Area.

All recovered artifacts have been washed, catalogued, and analysed, and are stored in one banker's boxes at WSP's office in Mississauga, Ontario. Table 4 provides an inventory of the documentary record generated in the field. A complete catalogue of the artifacts recovered during the Stage 2 Archaeological Assessment is provided below in Appendix A and B and detailed site location information is provided within the Supplementary Documentation.

Table 4: Inventory of Documentary Record

Document Type	Current Location of Document	Additional Comments	Quantity
Field Notes	WSP office in Mississauga	In hard copy and electronic project folders	9 pages
Hand Drawn Maps	WSP office in Mississauga	Created digitally and saved in electronic project folders	1 map
Maps Provided by Client	WSP office in Mississauga	Stored digitally in electronic project folder	1 map
Digital Photographs	WSP office in Mississauga	All photos are stored digitally in electronic project folder.	59 photos

3.1 Location 1

The Stage 2 Archaeological Assessment resulted in the recovery of two pre-contact Indigenous lithic artifacts at Location 1, which is located to the east of the Elmwood SPS within Study Area 2, between the Waterfront trail and Lake Ontario. A single piece of chert debitage was recovered from a grid test pit. Cardinal test pits were excavated, and a second piece of chert debitage was recovered from the cardinal test pit to the east. Aa test unit was dug over the original positive test pit, but no further finds were recovered. The GPS readings of the locations of the positive test pits were recorded and are provided within the Supplementary Documentation. Both pieces of chert debitage were Onondaga chert, which is a high-quality raw material that outcrops along the north shore of Lake Erie near the mouth of the Grand River. This material can also be recovered from secondary, glacial deposits across much of southwestern Ontario, east of Chatham (Eley and von Bitter 1989; Fox 2009).

The catalogue of artifacts from Location 1 is provided in Appendix A. A photograph of the artifacts recovered is provided as Image 25 (p. 41). A map detailing the location is provided within the Supplementary Documentation.

3.2 Tall Oaks (AjGv-95)

Tall Oaks (AjGv-95) is northeast of the Elmwood SPS within Study Area 2, approximately 30 m northwest from Location 1. Tall Oaks (AjGv-95) yielded 30 pre-contact Indigenous artifacts from a single positive test pit. All artifacts were collected and the GPS reading of the positive test pit was recorded and is provided in the Supplementary Documentation.

The catalogue of artifacts from Tall Oaks (AjGv-95) is provided in Appendix B. A photograph of a representative sample of artifacts is provided as Image 26 (p. 41). A map detailing the location of Tall Oaks (AjGv-95) is provided within the Supplementary Documentation.

3.2.1 Pre-Contact Indigenous Artifacts

The Stage 2 Archaeological Assessment resulted in the recovery of 30 pre-contact Indigenous lithic artifacts from a single positive test pit. All lithic material in the assemblage is Onondaga chert, which is a high-quality raw material that outcrops along the north shore of Lake Erie near the mouth of the Grand River. This material can also be recovered from secondary, glacial deposits across much of southwestern Ontario, east of Chatham (Eley and von Bitter 1989; Fox 2009).

Chert type identifications were accomplished visually using reference materials located in WSP's Mississauga office and published source material referenced in this regard includes: DeRegnaucourt and Georgiady 1998; Eley and von Bitter 1989; and Fox 2009). Also, the complete flake assemblage was subject to morphological analysis following the classification scheme described by Lennox et al. (1986) and expanded upon by Fisher (1997), with the exception that no attempt was made to distinguish "primary" from "primary bipolar" flakes.

3.2.1.1 Chipped Lithic Tools

The Stage 2 Archaeological Assessment produced 30 pieces of chert debitage from Tall Oaks (AjGv-95). All 30 flakes were of Onondaga chert, of which 7 pieces were heat-altered. The majority of the debitage assemblage was categorized as tertiary reduction flakes (59.4%, n=19), followed by broken flakes at 34.4% (n=11), and secondary flakes at 6.25% (n=2). Chert debitage is a waste product from the production of lithic tools and is the most commonly recovered artifact on pre-contact Indigenous archaeological sites in Ontario. A sample of debitage from Tall Oaks (AjGv-95) can be seen in Image 26 (p. 41) of Section 8.0.

4.0 ANALYSIS AND CONCLUSIONS

The Stage 2 Archaeological Assessment of the Study Area resulted in 3 positive test pits spread over two locations, Location 1, and Tall Oaks (AjGv-95). All recovered artifacts are pre-contact Indigenous in affiliation. Location 1 resulted in the recovery of 2 pieces of Onondaga chert debitage from two positive test pits. Tall Oaks (AjGv-95) resulted in the recovery of 30 pieces of Onondaga chert debitage from a single positive test pit.

4.1 Location 1

Based on the results of the Stage 2 Archaeological Assessment, Location 1 is concluded to be a findspot located within the eastern portion of Study Area 2, between the waterfront trail and Lake Ontario. The artifacts recovered were two pieces of Onondaga chert debitage. As the recovered assemblage consists of two non-diagnostic artifacts recovered within a less than 10 m by 10 m test pit area, Location 1 does not meet MCM criteria for having sufficient cultural heritage value or interest to require Stage 3 Archaeological Assessment.

4.2 Tall Oaks (AjGv-95)

Tall Oaks (AjGv-95) is a pre-contact Indigenous site located in the northern portion of Study Area 2, on the northwestern side of the waterfront trail, approximately 30 m from Location 1, and approximately 60 m from the shoreline of Lake Ontario. A total of 30 pre-contact Indigenous artifacts were recovered at Tall Oaks (AjGv-95) from one positive test pit. The pre-contact material consisted entirely of Onondaga chert debitage and did not include any diagnostic artifacts. Chipped lithic debitage is the waste product from the production of lithic tools and is the most commonly recovered artifact on pre-contact Indigenous archaeological sites in southern Ontario.

Tall Oaks (AjGv-95) likely represents the remains of a small temporary campsite; the lack of diagnostic artifacts prevents the location being assigned a temporal period.

Given the nature and frequency of pre-contact Indigenous artifacts recovered from Tall Oaks (AjGv-95), the site meets the criteria identified in Section 2.2, Standard 1a.ii.2 of the *Standards and Guidelines for Consultant Archaeologists* (MCM 2011) for having a level of cultural heritage value or interest that requires Stage 3 Archaeological Assessment.

The location of Tall Oaks (AjGv-95) is illustrated on mapping provided in the Supplementary Document.

5.0 RECOMMENDATIONS

The Stage 2 Archaeological Assessment resulted in the identification of two archaeological sites within the Study Area. Location 1 consists of two pieces of Onondaga chert debitage from two positive test pits. Cardinal test pits and a test unit were excavated, but there were no further finds. The site is located between the waterfront trail and Lake Ontario and measures approximately 5 m x 5 m. Based on these results, Location 1 does not meet MCM criteria for having sufficient cultural heritage value or interest to require Stage 3 Archaeological Assessment.

Tall Oaks (AjGv-95) yielded 30 pieces of Onondaga chert debitage from a single test pit. The site is located northeast of the Elmwood SPS and measures approximately 5 m x 5 m. Given the presence of at least 10 non-diagnostic pre-contact Indigenous artifacts within a 10 m by 10 m test pit survey area, as per *Section 2.2., Standards 1.a.ii (2)* of the MCM (2011), this site is considered to have further cultural heritage value and interest and a Stage 3 Archaeological Assessment is recommended.

Based on the results of the Stage 2 Archaeological Assessment documented herein, the following recommendations are presented:

1) **Location 1:** In accordance with *Section 2.2, Standard 1* (MCM 2011), Location 1 retains no further cultural heritage value or interest. No further archaeological assessment is recommended.

2) **Tall Oaks (AjGv-95):** Based on the above results, a Stage 3 Archaeological Assessment is recommended for Tall Oaks (AjGv-95) in accordance with the MCM (2011) prior to any intrusive activity that may result in the destruction or disturbance to the site. The Stage 3 Archaeological Assessment should define the site extent, gather a representative sample of artifacts, and aid in the determination of a Stage 4 mitigation strategy, if required.

   The Stage 3 Archaeological Assessment should commence with the establishment of a site datum prior to beginning test unit excavation following the strategy for small pre-contact sites where it is not yet evident that the level of cultural heritage value or interest will result in a recommendation to proceed to Stage 4 mitigation (MCM 2011; *Section 3.2.3, Table 3.1, Standard 1 and 2)*.

3) Study Areas 1, 3, 4, and 5 retain no further cultural heritage value or interest. No further archaeological assessment is recommended for these areas.

Despite efforts and due diligence, no archaeological assessment can necessarily account for potential archaeological resources. Should deeply buried archaeological resources be identified during ground disturbance activity associated with future development of the Study Area, ground disturbance activities shall be immediately halted, and the Archaeology Division of the Culture Programs Unit of the Ministry of Citizenship and Multiculturalism (MCM) notified.

The MCM is requested to review, and provide a letter indicating their satisfaction with the results and recommendations presented herein, with regard to the 2011 *Standards and Guidelines for Consultant Archaeologists* and the terms and conditions for archaeological licences, and to enter this report into the Ontario Public Register of Archaeological Reports.

6.0 ADVICE ON COMPLIANCE WITH LEGISLATION

This report is submitted to the Minister of Citizenship and Multiculturalism, as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection, and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Heritage, Sport, Tourism, Cultural Industries, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.

It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest , and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the *Ontario Heritage Act*.

The *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33, requires that any person discovering or having knowledge of a burial site shall immediately notify the police or coroner. It is recommended that the Registrar of Cemeteries at the Ontario Ministry of Consumer Services is also immediately notified.

7.0 BIBLIOGRAPHY

4Transit
2018 Stage 1 Archaeological Assessment, Port Credit GO Station, Metrolinx, Part of Lot 2 through 5, Range 1 Credit River I.R., and part of Port Credit Town Plot, in the City of Mississauga, former Township of Toronto, Former County of Peel, Regional Municipality of Peel, in the Province of Ontario. Aurora, Ontario. PIF P394-0065-2018.

Anderson, Jacob
2009 The Lawson Site: An Early Sixteenth Century Neutral Iroquoian Fortress. Museum of Ontario Archaeology, Special Publication No. 2. London.

Archaeological Services Incorporated (ASI)
2016a Stage 1 Archaeological Assessment of 1142 Mona Road (Part of Lots 99 And 100, Registered Plan 323), Part of Lots 4 And 5, Range 1, Credit Indian Reserve, Geographic Township of Toronto, Former Peel County, City of Mississauga, R.M. Peel, Ontario. PIF P046-0139-2016.

2016b Stage 2 Archaeological Assessment of 1142 Mona Road (Part of Lots 99 And 100, Registered Plan 323), Part of Lots 4 And 5, Range 1, Credit Indian Reserve, Geographic Township of Toronto, Former Peel County, City of Mississauga, R.M. Peel, Ontario. PIF P046-0158-2016.

2016c Stage 3 Archaeological Assessment Site AjGv-083 1142 Mona Road (Part of Lots 99 And 100, Registered Plan 323), Part of Lots 4 And 5, Range 1, Credit Indian Reserve, Geographic Township of Toronto, Former Peel County, City of Mississauga, R.M. Peel, Ontario. PIF P223-0103-2016.

2016d Stage 4 Archaeological Mitigation Site AjGv-083 1142 Mona Road (Part of Lots 99 And 100, Registered Plan 323), Part of Lots 4 And 5, Range 1, Credit Indian Reserve, Geographic Township of Toronto, Former Peel County, City of Mississauga, R.M. Peel, Ontario. PIF P223-0107-2016.

2017 Stage 1 Archaeological Assessment Assignment 1: Sewage Pumping Station Upgrades in Mississauga Part of Lots 5 and 7, Range 1 Credit Indian Reserve, Part of Lot 6 Range 2 Credit Indian Reserve, and Part of Lot 23, Concession 3 South of Dundas Street (Former Township of Toronto, County of Peel), City of Mississauga, Regional Municipality of Peel, Ontario. PIF P1066-0029-2017.

2018 Stage 2 Archaeological Assessment Assignment 1: Sewage Pumping Station Upgrades in Mississauga Part of Lots 5 and 7, Range 1 Credit Indian Reserve, Part of Lot 6 Range 2 Credit Indian Reserve, and Part of Lot 23, Concession 3 South of Dundas Street (Former Township of Toronto, County of Peel), City of Mississauga, Regional Municipality of Peel, Ontario. PIF P094-0248-2017.

Bull, Wm. Perkins
1935 From Brock to Currie: the military development and exploits of Canadians in general and of the men of Peel in particular, 1791 to 1930, Toronto: The Perkins Bull Foundation, George J. McLeod Ltd.

Bursey, Jeffrey
1995 The Transition from the Middle to Late Woodland Periods: A Re-Evaluation. In Origins of the People of the Longhouse: Proceedings of the 21st, Annual Symposium of the Ontario Archaeological Society, edited by André Bekerman and Gary Warrick, pp. 43-54. Ontario Archaeological Society, Toronto.

Canada's Historic Places
ND Cotton-Hawksworth House. https://www.historicplaces.ca/en/rep-reg/place-lieu.aspx?id=14973&pid=0. Accessed October 21, 2021.

City of Mississauga
2004 Mississauga: The Evolution of a City. Mississauga: Planning and Building Department, Policy Planning Division.

Chapman, L.J. and D.F. Putnam
1984 The Physiography of Southern Ontario. 3rd edition. Ontario Geological Survey Special Volume 2. Ontario Ministry of Natural Resources, Toronto.

Clarkson, Betty
1967 Credit Valley Gateway: The Story of Port Credit. University of Toronto Press, Toronto.

Crawford, Gary and David Smith
1996 Migration in prehistory: Princess Point and the Northern Iroquoian case. American Antiquity 61(4):782-790.

Crawford, Gary, David Smith and Vandy Bowyer
1997 Dating the entry of corn (*Zea mays*) into the Lower Great Lakes region. American Antiquity 62(1):112-119.

Crawford, Gary, David Smith, Joseph Desloges and Anthony Davis
1998 Floodplains and Agricultural Origins: A Case Study in South-Central Ontario, Canada. Journal of Field Archaeology 25:125-137.

DeRegnaucourt, Tony and Jeff Georgiady.
1998. *Prehistoric Chert Types of the Midwest*. Occasional Monographs Series, No. 7. Upper Miami Valley Archaeological Research Museum, Arcanum, OH.

Dieterman, Frank
2001 Princess Point: the landscape of place. Unpublished Ph.D. dissertation, Department of Anthropology, University of Toronto.

Dodd, Christine F., Dana R. Poulton, Paul A. Lennox, David G. Smith and Gary A. Warrick
1990 The Middle Ontario Iroquoian Stage. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:321-360.

Eley, Betty and Peter von Bitter.
1989. C*herts of Southern Ontario*. Royal Ontario Museum, Toronto.

Ellis, Chris J. and D. Brian Deller
1990 Paleo-Indians. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:37-64.

Ellis, Chris J. and Neal Ferris (eds)
1990 The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5.

Ellis, Chris, Ian T. Kenyon and Michael W. Spence
1990 The Archaic. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:65-124.

Ferris, Neal
2009 The Archaeology of Native-Lived Colonialism: Challenging History in the Great Lakes. University of Arizona Press, Tucson.

Ferris, Neal and Michael Spence
1995 The Woodland traditions in southern Ontario. Revista de Arqueología Americana 9:83-138.

Fox, William
1990 The Middle Woodland to Late Woodland Transition. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:171-188.

Fox WA.
2009. Ontario Cherts Revisited. Painting With A Broad Brush. Papers in Honour of James Valliere Wright Ed. David L. Keenlyside and Jean-Luc Pilon. Mercury Series Archaeology Paper 170: 339-354. Canadian Museum of Civilization. Gatineau.

Gibson, M.M.
2002. Changes at the River's Mouth: The Port Credit Community. In *Mississauga: The First Ten Thousand Years.* F.A. Dieterman. Eastend Books, Toronto.

Golder Associates Ltd.
2021a. Stage 1 Archaeological Assessment Port Credit East Wastewater Servicing Optimization Strategy Schedule 'C' Environmental Assessment, Part of Lots 2 to 6, A and D, Range 1 Credit River, Port Credit Town Plot, Lots B and C, Broken Front Concession, and Part of Lot 12, Concession 3 South of Dundas Street, Township of Toronto, Peel County, now the City of Mississauga, Municipality of Peel. PIF P468-0049-2020 and P468-0050-2020.

Heritage Mississauga
2009 History of Mississauga. http://www.heritagemississauga.com/page/History. Accessed 13 October 2021.

Hicks, K.A.
2007 Port Credit: Past to Present. Mississauga Library System, Mississauga.

Kirkwood, H.
1967 Town of Port Credit. In A History of Peel County, To Mark Its Centenary as a Separate County, 1867-1967, pp. 256-258. Printed by Charters Publishing Company Ltd. Brampton, for the Corporation of the County of Peel.

Lennox, P. A. and Fitzgerald, W.R.
1990 The Culture History and Archaeology of the Neutral Iroquoians. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:405-456.

Martin, Scott
2004 [2007] Lower Great Lakes Region Maize and Enchainment in the First Millennium AD. Ontario Archaeology 77/78:135-159.

MCM (Ministry of Citizenship and Multiculturalism)
2011 Standards and Guidelines for Consultant Archaeologists.

Mississaugas of the New Credit First Nation
2018 Past and Present. http://mncfn.ca/wp-content/uploads/2018/10/MississaugasoftheNewCreditFirstNation-PastPresentBooklets-PROOFv4-1.pdf. Accessed 22 May 2020.

Morris, J.L.
1943 Indians of Ontario. 1964 reprint. Department of Lands and Forests, Government of Ontario.

Pearce, Robert J.
2010 Southwestern Ontario: The First 12,000 Years. Electronic Document: http://www.diggingontario.uwo.ca.

Pope, J.H.
1877 Illustrated Historical Atlas of the County of Peel, Ont.: Compiled and Drawn from Official Plans and Special Surveys by J.H. Pope. Walker & Miles: Toronto.

Rayburn, A.
1997 Place Names of Ontario. University of Toronto Press, Toronto.

Riendeau, Roger E.
1985 Mississauga: An Illustrated History. Windsor Publications, Northridge, CA.

Ritchie, William
1971 A Typology and Nomenclature for New York Projectile Points. Revised Edition. New York State Museum and Science Service, Bulletin Number 384. The University of the State of New York, The State Education Department, Albany, New York.

Robb, George (et. al).
2003 Heritage Conservation Feasibility Study of Old Port Credit Village, Stage 1 Report. Prepared for the City of Mississauga, November 28, 2003.

Schmalz, Peter S.
1991 The Ojibwa of Southern Ontario. University of Toronto Press, Toronto.

Scott, D.F.
1997 Ontario Place Names: The Historical, Offbeat or Humorous Origins of More Than 1,000 Communities. Lone Pine Publishing, Edmonton.

Shen, Chen
1997 Towards a Comprehensive Understanding of the Lithic Production System of the Princess Point Complex, Southwestern Ontario. Ph.D. Dissertation, Graduate Department of Anthropology, University of Toronto.

2000 Tool use-patterning at the Grand Banks site of the Princess Point Complex, southwestern Ontario. Northeast Anthropology 60:63-87.

Smith, David G.
1990 Iroquoian Societies in Southern Ontario: Introduction and Historic Overview. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:279-290.

1997 Recent Investigations of Late Woodland Occupations at Cootes Paradise, Ontario. Ontario Archaeology 63:4-16.

Smith, W.H.
1846 Smith's Canadian Gazetteer, Comprising Statistical and General Information Respecting All Parts of the Upper Province, or Canada West. H. & W. Rowsell, Toronto.

1851 Canada: Past, Present and Future, Being a Historical, Geographical, Geological and Statistical Account of Canada West, volume 1. Thomas Maclear, Toronto.

Spence, Michael, Robert Pihl and Carl Murphy
1990 Cultural Complexes of the Early and Middle Woodland periods. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Papers of the London Chapter, Ontario Archaeological Society, Number 5:125-169.

Stothers, David and Richard Yarnell
1977 An agricultural revolution in the lower Great Lakes. In: Geobotany, edited by R. C. Romans. Plenum, New York, pp. 209-232.

Tremaine, G.R. and G.M. Tremaine
1859 Tremaine's Map of the County of Peel, Canada West: Compiled and Drawn by Geo. M. Tremaine. Toronto.

Walker & Miles
1877 Illustrated Historical Atlas of the County of Peel, Ontario. Walker & Miles, Toronto. Reprinted by Cumming Atlas Reprints, Stratford.

Walton, G.
1837 *The City of Toronto and the Home District Commercial Directory and Register with Almanack and Calendar for 1837*. T. Dalton and W.J. Coates, Toronto.

Williamson, Ronald F.
1990 The Early Iroquoian Period of Southern Ontario. In: The Archaeology of Southern Ontario to A.D. 1650. Occasional Publication of the London Chapter, Ontario Archaeological Society, Number 5:291-320.

WSP
2023 Stage 1 Archaeological Assessment Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule ‘C’ Environmental Assessment, Part of Lots A, 4, 5 and 6, Range 1 Credit River I.R., Lot C, Broken Front Concession, and Port Credit Town Plot, Township of Toronto, Peel County, now the City of Mississauga, Municipality of Peel. PIF P468-0081-2021.

8.0 IMAGES

Image 1: Test pitting at 10 m intervals within Study Area 1, facing east.

Image 2: Disturbed test pit within Study Area 1, facing north.

Image 3: Disturbed test pit showing evidence of irrigation pipe within Study Area 1, facing north.

Image 4: Disturbed test pit with sprinkler head for irrigation at surface, facing north.

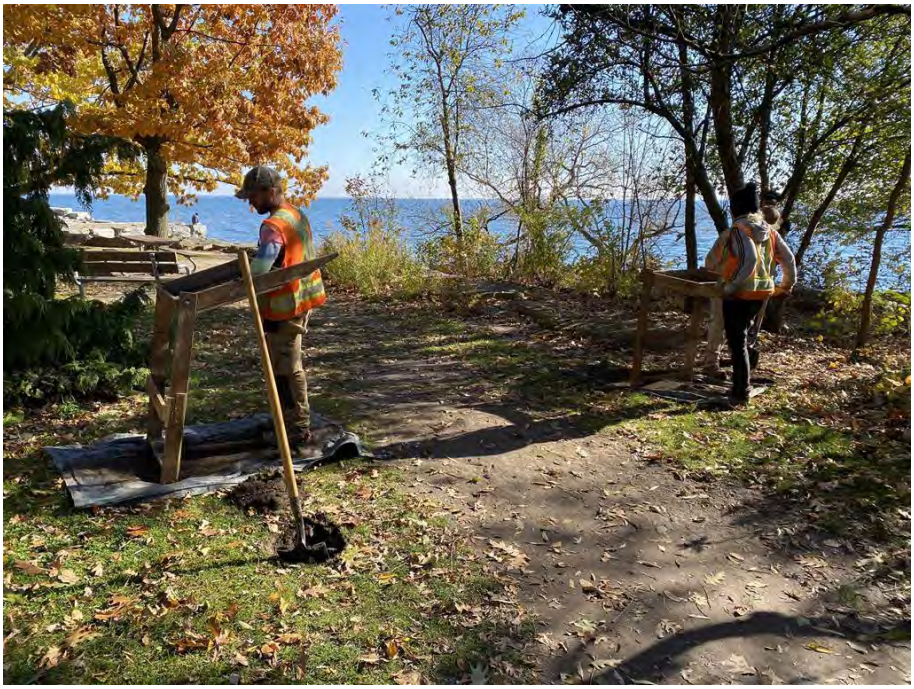


Image 5: Test pitting at 5 m intervals within Study Area 2, facing east.

Image 6: Test pitting at 5 m intervals within Study Area 2, facing northwest.

Image 7: Disturbed test pit within Study Area 2, facing north.

Image 8: Natural test pit within Study Area 1, facing north.

Image 9: Natural test pit within Study Area 2, facing north.

Image 10: Excavating test unit over positive test pit within Study Area 2, facing west.

Image 11: Location 1 test unit complete within Study Area 2, facing northeast.

Image 12: Test pitting at 10 m intervals within Study Area 3, facing southwest.

Image 13: Test pitting at 10 m intervals within Study Area 3, facing east.

Image 14: Disturbed test pit within Study Area 3, facing north.

Image 15: Disturbed test pit with garbage within Study Area 3, facing north.

Image 16: Disturbed test it within Study Area 3, facing north.

Image 17: Test pitting at 5 m intervals within Study Area 4, facing northeast.

Image 18: Test pitting at 5 m intervals within Study Area 4, facing northeast.

Image 19: Test pit filling with water within Study Area 4, facing north.

Image 20: Disturbed test pit with grey construction layer within Study Area 4, facing north.

Image 21: Disturbed test pit within Study Area 4, facing north.

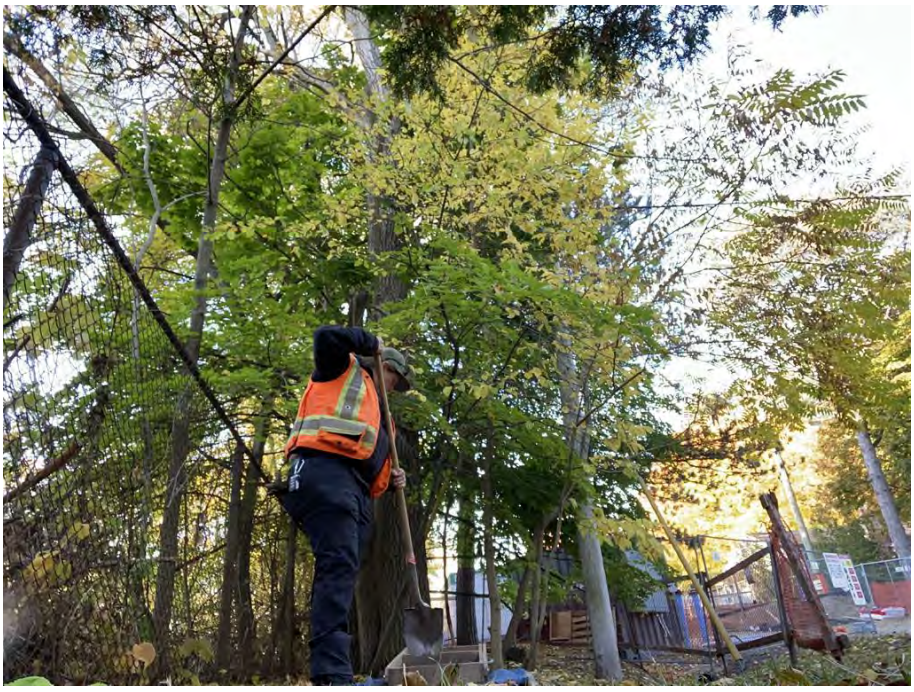


Image 22: Test pitting at 5 m intervals within Study Area 5, facing southwest. October 24, 2022.

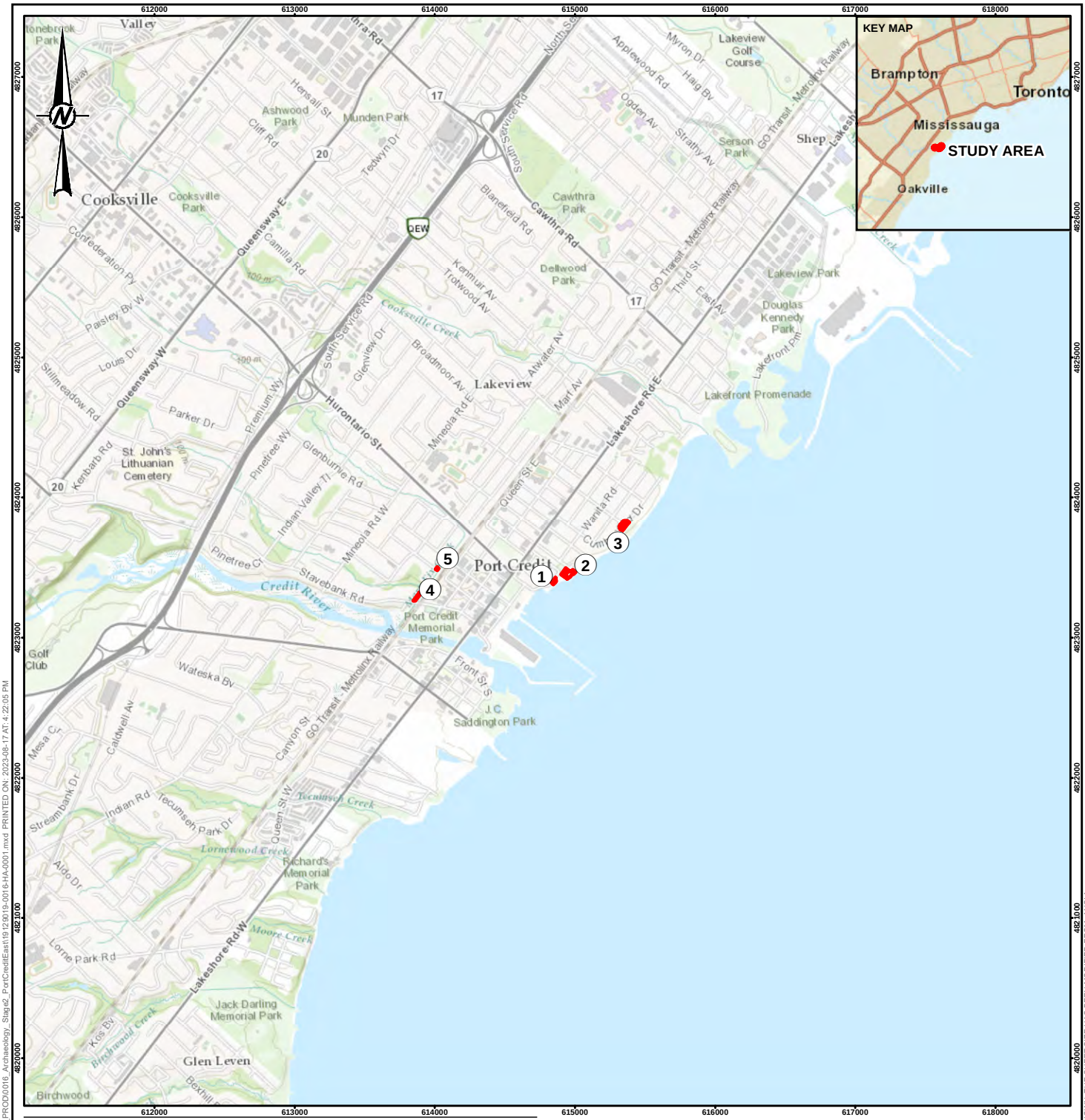
Image 23: Test pit stratigraphy within Study Area 5, facing down. October 24, 2022.

Image 24: Sloped area down to creek, facing east. October 24, 2022.

Image 25: Onondaga chert debitage recovered from Location 1.

Image 26: Sample of Onondaga chert debitage recovered from Tall Oaks (AjGv-95).

9.0 MAPS



LEGEND

STAGE 2 STUDY AREA

0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

1. SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
2. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	BR
REVIEWED	MT
APPROVED	RF

PROJECT
STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
STUDY AREA LOCATION PLAN

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\19 129019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreditEast\19129019-0016-HA-0001.mxd PRINTED ON: 2023-08-17 AT 4:22:05 PM

LEGEND

- SPS STATION
- TRAIL
- RAILWAY
- ROAD
- WATERCOURSE
- BUILDING FOOTPRINT
- STAGE 2 STUDY AREA
- PARCEL BOUNDARY

0 50 100 150 200

1:5,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

SITE PLAN

CONSULTANT

wsp

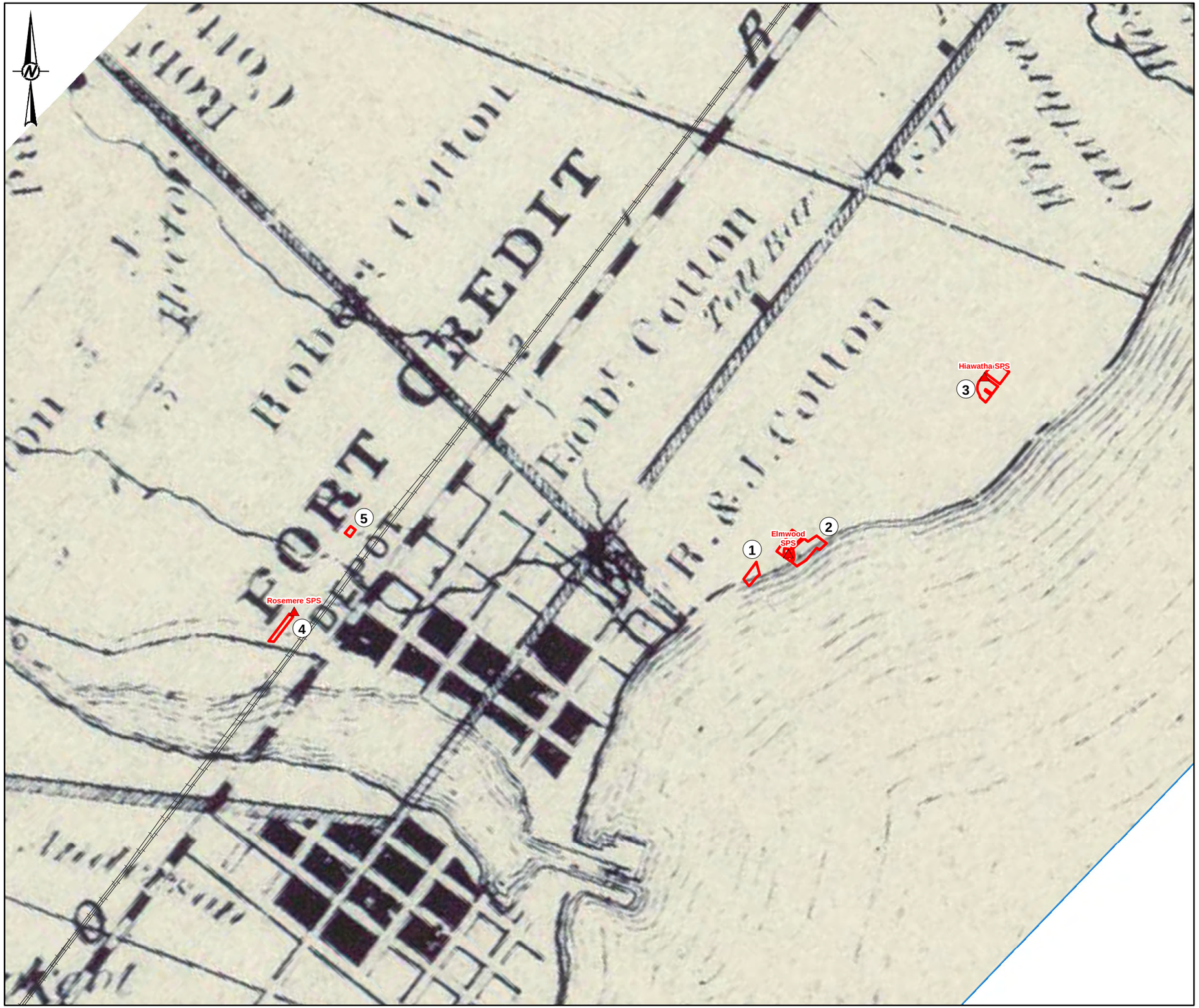
YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCredEast\1912019-0016-HA-0002.mxd PRINTED ON: 2023-08-17 AT 4:24:12 PM



LEGEND

- SPS STATION
- RAILWAY
- STAGE 2 STUDY AREA

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

1859 TREMAINE'S MAP COUNTY OF PEEL

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreditEast\1912019-0016-HA-0003.mxd PRINTED ON: 2023-08-17 AT: 4:23:46 PM

LEGEND

- SPS STATION
- RAILWAY
- STAGE 2 STUDY AREA

0 100 200 300 400

1:8,500 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

1877 MAP OF THE TOWNSHIP OF TORONTO

CONSULTANT

wsp

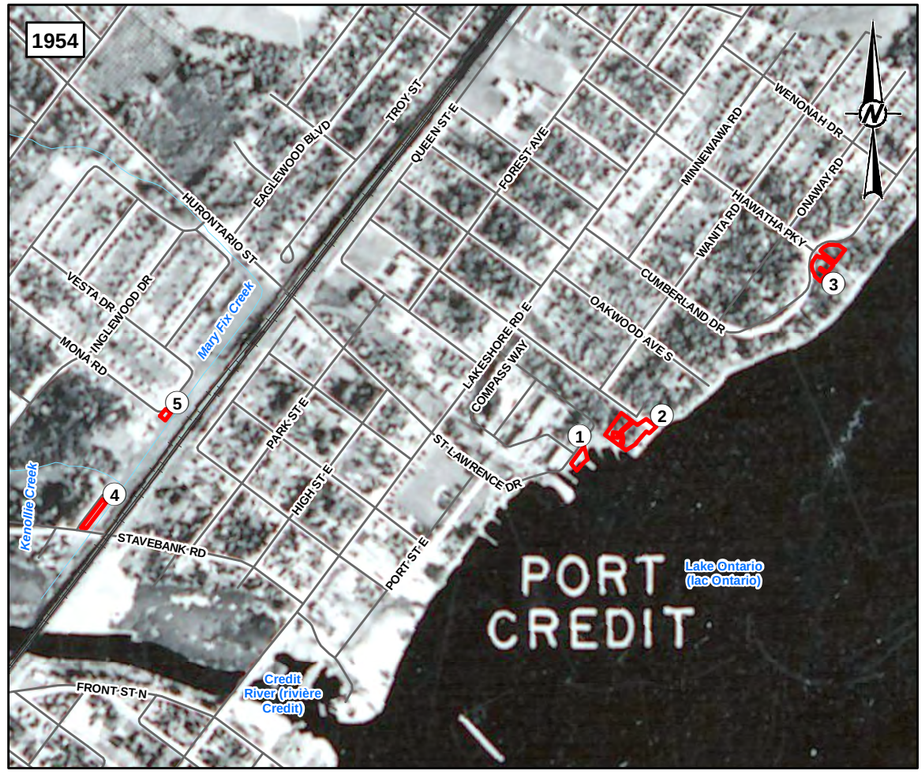
YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreditEast\19129019-0016-HA-0004.mxd PRINTED ON: 2023-08-17 AT: 4:23:25 PM



LEGEND

- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 2 STUDY AREA

0 200 400 600 800

1:12,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. HISTORICAL AIRPHOTOS OBTAINED FROM HTTP://WWW6.MISSISSAUGA.CA/MISSMAPS/#MAP=12/-8864609.44/5404848.32/0.9075712110370514
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

AERIAL PHOTOGRAPHY

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	5

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\1912019\19_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PostCredit\East\1912019-0016-HA-0005.mxd PRINTED ON: 2023-08-17 AT: 4:22:53 PM

LEGEND

- SPS STATION
- STAGE 2 STUDY AREA
- RAILWAY
- ROAD
- WATERCOURSE

SURFICIAL GEOLOGY

- 3: PALEOZOIC BEDROCK
- 8B: INTERBEDDED FLOW TILL, RAINOUT DEPOSITS AND SILT AND
- 9C: FORESHORE-BASINAL DEPOSITS
- 19: MODERN ALLUVIAL DEPOSITS

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

SURFICIAL GEOLOGY

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

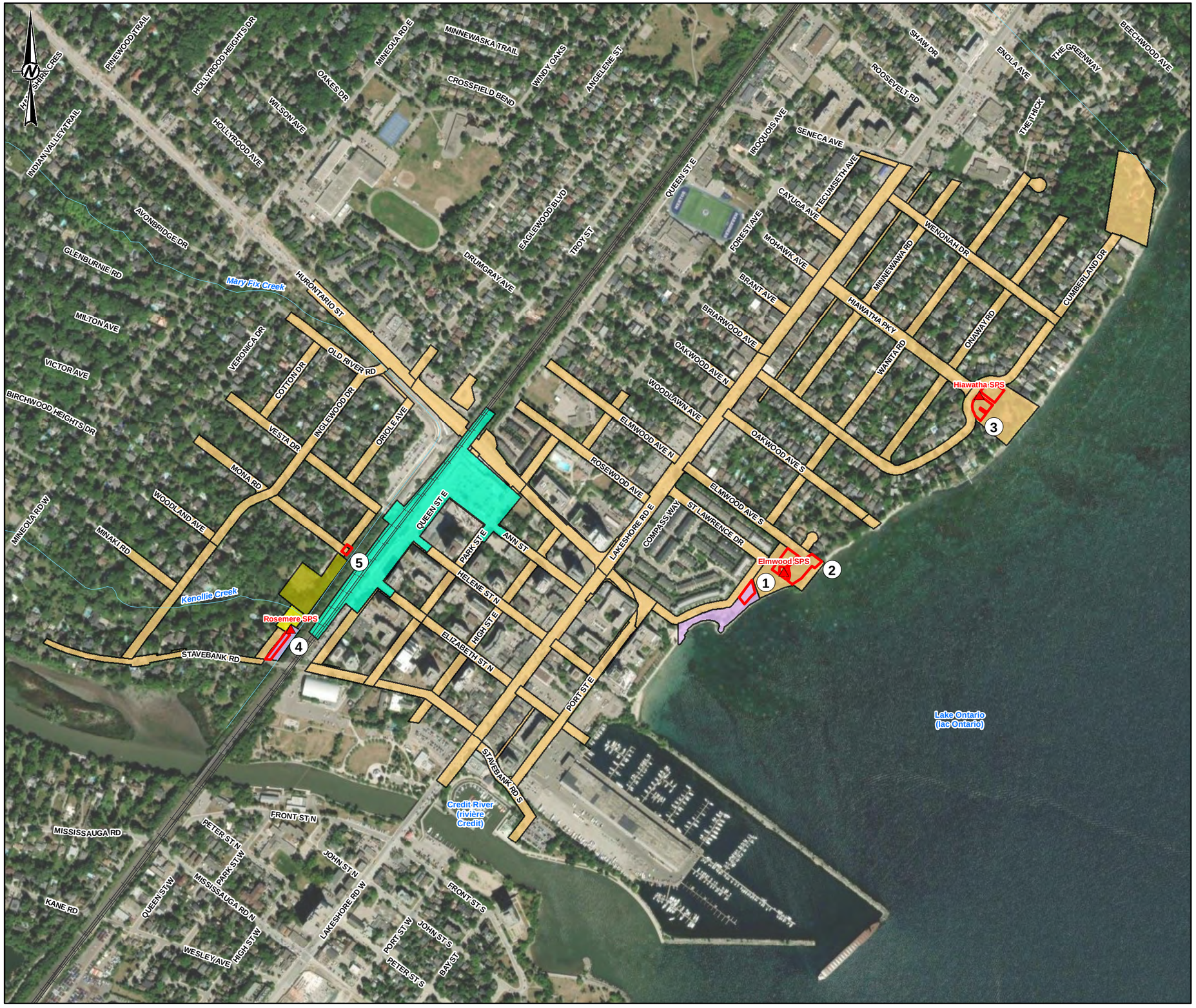
PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\9\9_PRO\1912019.19_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PostCreekEast\1912019-0016-HA-0006.mxd PRINTED ON: 2023-08-17 AT 4:21:08 PM



LEGEND

- SPS STATION
- RAILWAY
- WATERCOURSE
- STAGE 2 STUDY AREA
- PREVIOUSLY ASSESSED STAGE 1-4 ARCHAEOLOGICAL ASSESSMENT (ASI 2016, P046-0139-2016, P046-0158-2016, P223-0103-2016, P223-0107-2016)
- PREVIOUSLY ASSESSED STAGE 1-2 ARCHAEOLOGICAL ASSESSMENT (ASI 2017, P1066-0029-2017, P094-0248-2017)
- PREVIOUSLY ASSESSED STAGE 1 ARCHAEOLOGICAL ASSESSMENT (4TRANSIT 2018, P394-0065-2018)
- PREVIOUSLY ASSESSED STAGE 1 ARCHAEOLOGICAL ASSESSMENT (GOLDER ASSOCIATES LTD. 2021A, P468-0049-2020 & P468-0050-2020)
- PREVIOUSLY ASSESSED STAGE 1 ARCHAEOLOGICAL ASSESSMENT (GOLDER ASSOCIATES LTD. 2021B, P468-0081-2021)

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
PREVIOUS ARCHAEOLOGICAL ASSESSMENTS WITHIN 50 M OF THE STUDY AREA

CONSULTANT
wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	7

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\9.0_PRO\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreekEast\1912019-0016-HA-0007.mxd PRINTED ON: 2023-08-17 AT: 4:27:23 PM

LEGEND

- SPS STATION
- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 2 STUDY AREA
- PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)

CULTURAL HERITAGE LANDSCAPE

- OLD PORT CREDIT CULTURAL HERITAGE LANDSCAPE
- MINEOLA NEIGHBOURGOOD RESIDENTIAL LANDSCAPE

0 100 200 300 400

1:8,000 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

CULTURAL HERITAGE RESOURCES

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	8

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\9\9_PRO\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreekEast\1912019-0016-HA-0008.mxd PRINTED ON: 2023-08-17 AT: 4:26:54 PM

LEGEND

- SPS STATION
- ROAD
- STAGE 2 STUDY AREA
- STAGE 1 STUDY AREA
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT RECOMMENDED – TEST PIT SURVEY AT 5 METRE INTERVALS
- DISTURBED DUE TO MAJOR LANDSCAPING/INFRASTRUCTURE, NO ARCHAEOLOGICAL POTENTIAL
- LOW-LYING WET, NO ARCHAEOLOGICAL POTENTIAL
- ARCHAEOLOGICAL POTENTIAL NOT ASSESSED
- PARCEL BOUNDARY

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
STAGE 1 ARCHAEOLOGICAL ASSESSMENT RESULTS

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	9A

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: S:\Clients\Region of Peel\Elmwood, Hiawatha SPS\9Deliverables\RPO_1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreekEast\1912019-0016-HA-0009.mxd PRINTED ON: 2023-08-17 AT 4:26:20 PM

LEGEND

- SPS STATION
- ROAD
- STAGE 2 STUDY AREA
- STAGE 1 STUDY AREA
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT RECOMMENDED – TEST PIT SURVEY AT 5 METRE INTERVALS
- DISTURBED DUE TO MAJOR LANDSCAPING/INFRASTRUCTURE, NO ARCHAEOLOGICAL POTENTIAL
- ARCHAEOLOGICAL POTENTIAL NOT ASSESSED
- PARCEL BOUNDARY

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

STAGE 1 ARCHAEOLOGICAL ASSESSMENT RESULTS

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

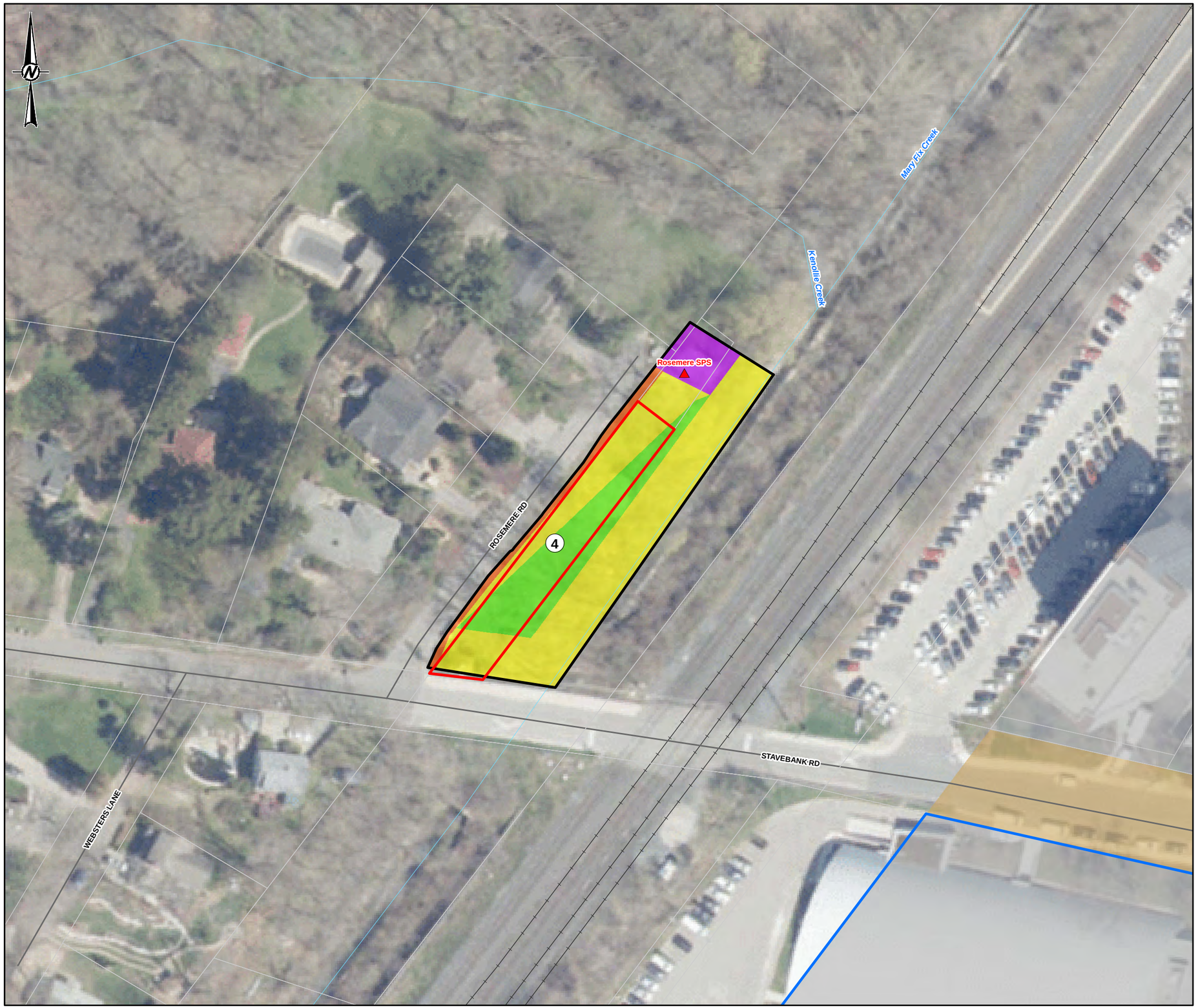
PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	9B

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\9b_PRO\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreekEast\1912019-0016-HA-0009.mxd PRINTED ON: 2023-08-17 AT 4:26:24 PM



LEGEND

- SPS STATION
- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 2 STUDY AREA
- STAGE 1 STUDY AREA
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT RECOMMENDED – TEST PIT SURVEY AT 5 METRE INTERVALS
- PREVIOUSLY ASSESSED STAGE 1-2 ARCHAEOLOGICAL ASSESSMENT (GOLDER 2021); NO FURTHER ASSESSMENT RECOMMENDED
- PREVIOUSLY ASSESSED STAGE 1-2 ARCHAEOLOGICAL ASSESSMENT (ASI 2017); NO FURTHER ASSESSMENT RECOMMENDED
- DISTURBED DUE TO MAJOR LANDSCAPING/INFRASTRUCTURE, NO ARCHAEOLOGICAL POTENTIAL
- SLOPE > 20 DEGREES, LOW ARCHAEOLOGICAL POTENTIAL
- ARCHAEOLOGICAL POTENTIAL NOT ASSESSED
- PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)
- PARCEL BOUNDARY

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
STAGE 1 ARCHAEOLOGICAL ASSESSMENT RESULTS

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

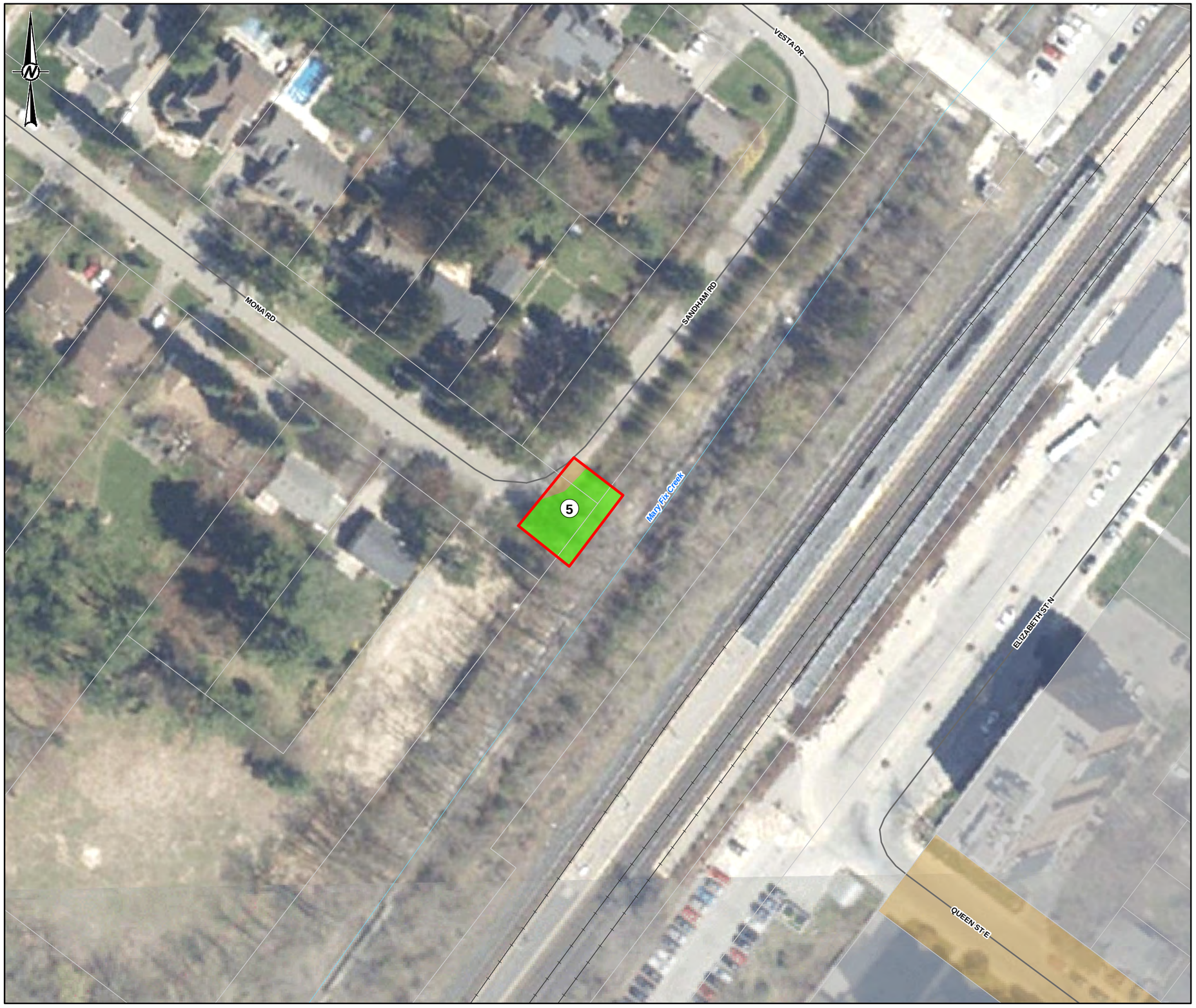
PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	9C

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: S:\Clients\Region of Peel\Elmwood, Hawatha, SPS\09_PRO\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreekEast\19120019-0016-HA-0009.mxd PRINTED ON: 2023-08-17 AT: 4:26:27 PM



LEGEND

- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 2 STUDY AREA
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT RECOMMENDED – TEST PIT SURVEY AT 5 METRE INTERVALS
- DISTURBED DUE TO MAJOR LANDSCAPING/INFRASTRUCTURE, NO ARCHAEOLOGICAL POTENTIAL
- ARCHAEOLOGICAL POTENTIAL NOT ASSESSED
- PARCEL BOUNDARY

0 10 20 30 40

1:800 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
STAGE 1 ARCHAEOLOGICAL ASSESSMENT RESULTS

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	9D

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region of Peel\Elmwood, Hawatha, SPS\09_PRO\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreekEast\19120019-0016-HA-0009.mxd PRINTED ON: 2023-08-17 AT: 4:26:31 PM

LEGEND

- PHOTO LOCATION AND DIRECTION
- SPS STATION
- ROAD
- STAGE 2 STUDY AREA
- STAGE 2 TEST PIT ASSESSMENT CONDUCTED AT 5 METRE INTERVALS
- STAGE 2 TEST PIT ASSESSMENT CONDUCTED AT 10 METRE INTERVALS
- PARCEL BOUNDARY

0 10 20 30 40

1:600 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
STAGE 2 ARCHAEOLOGICAL ASSESSMENT RESULTS AND PHOTO LOCATIONS

CONSULTANT
wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	10A

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\90_PRO\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreekEast\1912019-0016-HA-0010.mxd PRINTED ON: 2023-08-17 AT 4:25:28 PM

LEGEND

- PHOTO LOCATION AND DIRECTION
- SPS STATION
- ROAD
- STAGE 2 STUDY AREA
- STAGE 2 TEST PIT ASSESSMENT CONDUCTED AT 10 METRE INTERVALS
- PARCEL BOUNDARY

0 10 20 30 40

1:600 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
STAGE 2 ARCHAEOLOGICAL ASSESSMENT RESULTS AND PHOTO LOCATIONS

CONSULTANT

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	10B

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\09_PRO\1912019_CMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreekEast\1912019-0016-HA-0010.mxd PRINTED ON: 2023-08-17 AT 4:25:32 PM

LEGEND

- PHOTO LOCATION AND DIRECTION
- SPS STATION
- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 2 STUDY AREA
- STAGE 2 TEST PIT ASSESSMENT CONDUCTED AT 10 METRE INTERVALS
- PERMANENTLY WET
- PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)
- PARCEL BOUNDARY

0 10 20 30 40

1:600 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
STAGE 2 ARCHAEOLOGICAL ASSESSMENT RESULTS AND PHOTO LOCATIONS

CONSULTANT

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	10C

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hawatha_SPS\09_PRO\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreekEast\1912019-0016-HA-0010.mxd PRINTED ON: 2023-08-17 AT 4:25:37 PM

LEGEND

- PHOTO LOCATION AND DIRECTION
- RAILWAY
- ROAD
- WATERCOURSE
- STAGE 2 STUDY AREA
- STAGE 2 TEST PIT ASSESSMENT CONDUCTED AT 5 METRE INTERVALS
- DISTURBED DUE TO MAJOR LANDSCAPING/INFRASTRUCTURE, NO ARCHAEOLOGICAL POTENTIAL
- PARCEL BOUNDARY

0 10 20 30 40

1:600 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA OPEN DATA, 2020. CREDIT VALLEY CONSERVATION, 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

STAGE 2 ARCHAEOLOGICAL ASSESSMENT PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

STAGE 2 ARCHAEOLOGICAL ASSESSMENT RESULTS AND PHOTO LOCATIONS

CONSULTANT

wsp

YYYY-MM-DD	2023-08-17
DESIGNED	MT
PREPARED	PR/BR
REVIEWED	MT
APPROVED	RF

PROJECT NO.	CONTROL	REV.	MAP
1912019	0016	0	10D

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: S:\Clients\Region of Peel\Elmwood, Hiawatha, SPS\90_PRO\1912019_GMBP_SPS_EA\40_PROD\0016_Archaeology_Stage2_PortCreekEast\1912019-0016-HA-0010.mxd PRINTED ON: 2023-08-17 AT 4:25:40 PM

Closure

We trust that this report meets your current needs. If you have any questions, or if we may be of further assistance, please contact the undersigned.

WSP Canada Inc.

Martha Tildesley, MA, RPA
Archaeologist

Rhiannon Fisher, MSc, RPA
Lead Archaeologist

MT/RH/RF/ca

https://golderassociates.sharepoint.com/sites/114195/project files/6 deliverables/3 - archaeology/stage 2/p468-0083-2021_re_15aug2023.docx

APPENDIX A

Complete Artifact Catalogue for Location 1

Cat. #	Context	Lot	Depth (cm)	Material 1	Material 2	Object	Fragment	Alteration	# of Artifacts
1	TP1	1	0-27	chert	Onondaga	chipping detritus	broken	n/a	1
2	TP2	1	0-25	chert	Onondaga	chipping detritus	secondary	n/a	1

APPENDIX B

Complete Artifact Catalogue for Tall Oaks (AjGv-95)

Cat. #	Context	Lot	Depth (cm)	Material 1	Material 2	Object	Fragment	Alteration	# of Artifacts
1	TP3	1	0-34	chert	Onondaga	chipping detritus	secondary		2
2	TP3	1	0-34	chert	Onondaga	chipping detritus	tertiary		14
3	TP3	1	0-34	chert	Onondaga	chipping detritus	tertiary	heat altered	5
4	TP3	1	0-34	chert	Onondaga	chipping detritus	broken		9
5	TP3	1	0-34	chert	Onondaga	chipping detritus	broken	heat altered	2

wsp.com

2E

Region of Peel

APPENDIX 2E

CULTURAL HERITAGE REPORTS

REPORT

Cultural Heritage Screening Report

Port Credit East Wastewater Servicing Optimization Strategy Schedule C Class Environmental Assessment

Submitted to:

Chris Campbell, MTP, MCIP, RPP, MRTPI

GM BluePlan Engineering Limited
Royal Centre, 3300 Highway No. 7, Suite 402 Vaughan ON L4K 4M3

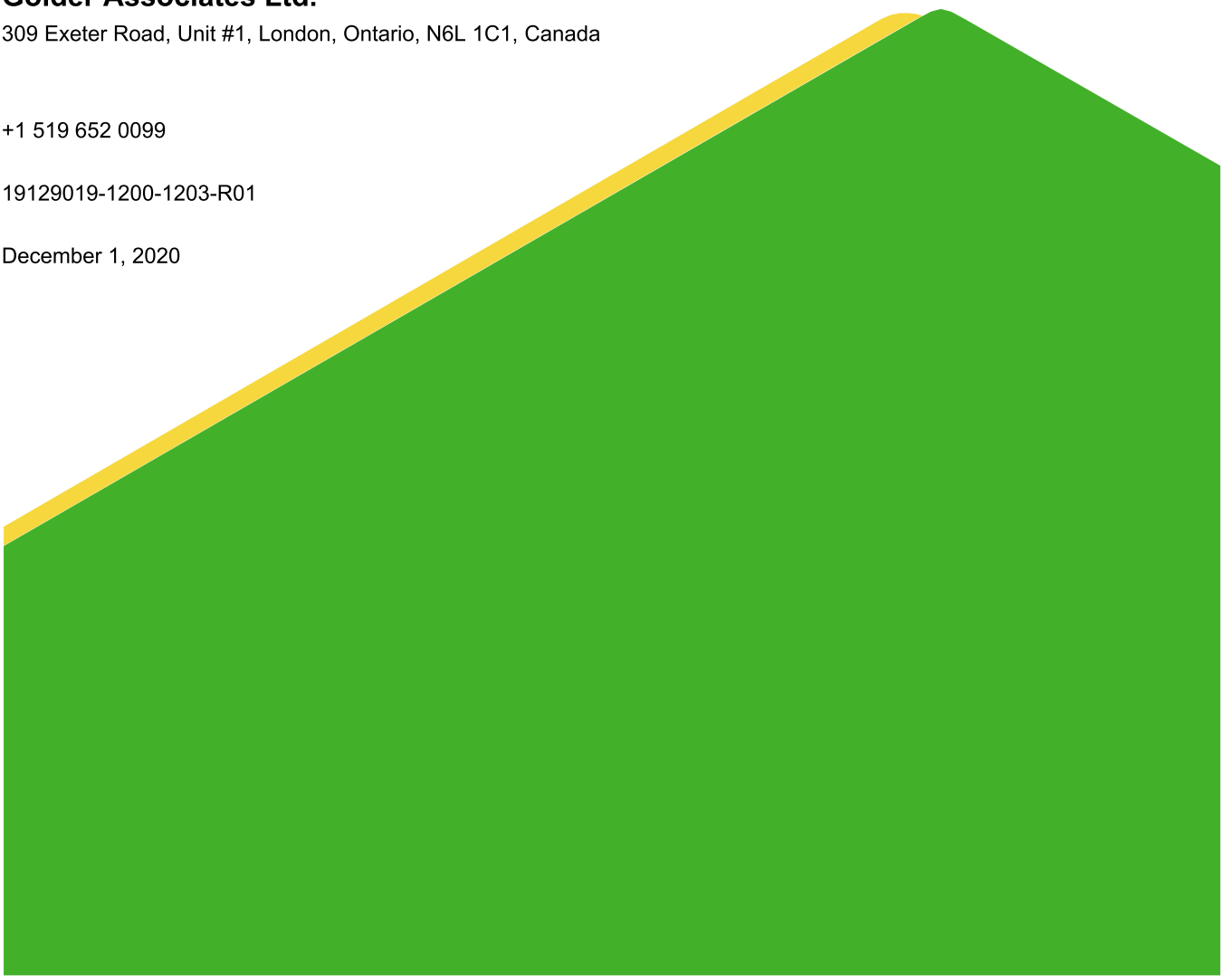
Submitted by:

Golder Associates Ltd.
309 Exeter Road, Unit #1, London, Ontario, N6L 1C1, Canada

+1 519 652 0099

19129019-1200-1203-R01

December 1, 2020



Distribution List

2 e-copies - GM BluePlan Engineering Limited

1 e-copy - Golder Associates Ltd.

Executive Summary

Background

In March 2020, GM BluePlan Engineering Limited (GM BluePlan) retained Golder Associates Ltd. (Golder) to conduct a Cultural Heritage Screening Report (CHSR) as part of a Schedule C Municipal Class Environmental Assessment (MCEA) for the Port Credit East Wastewater Servicing Optimization Strategy (the Project) in the City of Mississauga, Region of Peel, Ontario. The purpose of the Project is to investigate alternative wastewater strategies for the Rosemere, Hiawatha, and Elmwood sewage pumping station (SPS) servicing areas and develop an integrated servicing strategy that supports existing servicing needs and projected growth.

The study area (as defined by GMBP) is generally limited by the Credit River in the south, Veronica Drive and just east of Forest Avenue in the west, just south of Enola Avenue in the north, and Lake Ontario in the east.

The objectives of the CHSR was to identify from desktop sources all known and potential cultural heritage resources within or crossed by the study area and determine if the Project will require subsequent cultural heritage studies such as a Cultural Heritage Existing Conditions and Preliminary Impact Assessment (CHECPIA) or site-specific Cultural Heritage Evaluation Reports (CHERs) or Heritage Impact Assessments (HIAs).

Results

Background research and desktop analysis of the study area based on the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes (2016) checklist identified:

- 8 protected heritage properties designated under Part IV of the *Ontario Heritage Act*
- 1 protected heritage property designated under Part V of the *Ontario Heritage Act*
- 67 properties listed (not designated) on the City of Mississauga's *Heritage Register*
- 4 cultural heritage landscapes listed (not designated) on the City of Mississauga's *Inventory of Cultural Heritage Landscapes*
- 648 properties with buildings or structures 40 or more years old of potential cultural heritage value or interest (CHVI)
- 1 potential cultural heritage landscape

Recommendations

Due to the high number of known and potential built heritage resources and cultural heritage landscapes in the study area, Golder recommends to:

- site and route all infrastructure to avoid the cultural heritage resources identified in this CHSR:
  - listed (not designated) heritage properties or cultural heritage landscapes (CHL), properties of potential CHVI, and the potential CHL can be avoided by limiting all construction to within public rights-of-way; and,

  - however, construction adjacent to any of the protected heritage properties designated under Part IV or Part V of the *OHA* will require an impact assessment compliant with the *City of Mississauga Heritage Impact Assessment Terms of Reference* (2014) prior to detailed design to recommend the appropriate mitigations.

- if a listed (not designated) heritage property or cultural heritage landscape (CHL), properties of potential CHVI property, or the potential CHL cannot be feasibly avoided, consult the City of Mississauga to determine if a Cultural Heritage Evaluation Report (CHER) is required:
  - if required, the CHER should determine if the property meets the criteria for CHVI prescribed in *Ontario Regulation 9/06.* If the CHER finds that the resource has CHVI, conduct an HIA prior to detailed design to recommend the appropriate mitigations.
- if a protected heritage property designated under Part IV or Part V of the *OHA* cannot be feasibly avoided (including work on adjacent parcels or rights-of-way), conduct a Heritage Impact Assessment (HIA) that is compliant with the *City of Mississauga Heritage Impact Assessment Terms of Reference* (2014) prior to detailed design to recommend the appropriate mitigations.

If multiple known and potential built heritage resources and cultural heritage landscapes identified in this CHSR cannot be feasibly avoided, Golder recommends to:

- conduct a Cultural Heritage Existing Conditions and Preliminary Impact Assessment (CHECPIA) prior to detailed design. The CHECPIA should:
  - evaluate at a preliminary level the listed (not designated) heritage properties, properties of potential CHVI, and the potential CHL to determine if they meet the criteria for CHVI prescribed in *Ontario Regulation 9/06;*
  - identify impacts to the protected heritage properties designated under Part IV or Part V of the *OHA*, listed (not designated) heritage properties or cultural heritage landscapes, and the properties and landscapes evaluated to have CHVI; and,
  - recommend the appropriate mitigations to avoid or reduce adverse impacts to all built heritage resources and cultural heritage landscapes.

Study Limitations

Golder has prepared this report in a manner consistent with the guidelines developed by the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) and City of Mississauga, subject to the time limits and physical constraints applicable to this report.

This report has been prepared for the specific site, design objective, developments, and purpose described to Golder by GM BluePlan Engineering Limited (the Client). The factual data, interpretations, and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location.

The information, recommendations, and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without Golder's express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the Client, Golder may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to Golder. The report, all plans, data, drawings, and other documents as well as electronic media prepared by Golder are considered its professional work product and shall remain the copyright property of Golder, who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permissions of Golder. The Client acknowledges the electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client cannot rely upon the electronic media versions of Golder's report or other work products.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project.

Table of Contents

1.0 INTRODUCTION 1

2.0 KEY LEGISLATION & POLICIES 3

2.1 Environmental Assessment Act 3

2.2 Planning Act and Provincial Policy Statement 2020 3

2.3 Ontario Heritage Act and *Ontario Regulation 9/06* 4

3.0 SCOPE & METHOD 6

4.0 STUDY RESULTS 7

4.1 Overview of Study Results 7

4.2 Results of Engagement 8

4.3 Identified Known and Potential Built Heritage Resources & Cultural Heritage Landscapes 9

4.3.1 Quadrant 1 9

4.3.2 Quadrant 2 12

4.3.3 Quadrant 3 15

4.3.4 Quadrant 4 19

4.3.5 Quadrant 5 23

4.3.6 Quadrant 6 27

4.3.7 Quadrant 7 30

4.3.8 Quadrant 8 37

4.3.9 Quadrant 9 45

4.3.10 Quadrant 10 47

4.3.11 Quadrant 11 52

4.3.12 Quadrant 12 59

5.0 RECOMMENDATIONS 64

TABLES

Table 1: Municipal engagement 8

Table 2: Known and potential properties of CHVI identified through desktop analysis in Quadrant 1 9

Table 3: Known and potential properties of CHVI identified through desktop analysis in Quadrant 2 12
Table 4: Known and potential properties of CHVI identified through desktop analysis in Quadrant 3 15
Table 5: Known and potential properties of CHVI identified through desktop analysis in Quadrant 4 19
Table 6: Known and potential properties of CHVI identified through desktop analysis in Quadrant 5 23
Table 7: Known and potential properties of CHVI identified through desktop analysis in Quadrant 6 27
Table 8: Known and potential properties of CHVI identified through desktop analysis in Quadrant 7 30
Table 9: Known and potential properties of CHVI identified through desktop analysis in Quadrant 8 37
Table 10: Known and potential properties of CHVI identified through desktop analysis in Quadrant 9 45
Table 11: Known and potential properties of CHVI identified through desktop analysis in Quadrant 10 47
Table 12: Known and potential properties of CHVI identified through desktop analysis in Quadrant 11 52
Table 13: Known and potential properties of CHVI identified through desktop analysis in Quadrant 12 59

FIGURES

Figure 1: Location Plan 2
Figure 2: Known and potential properties of CHVI identified in Quadrant 1 11
Figure 3: Known and potential properties of CHVI identified in Quadrant 2 14
Figure 4: Known and potential properties of CHVI identified in Quadrant 3 18
Figure 5: Known and potential properties of CHVI identified in Quadrant 4 22
Figure 6: Known and potential properties of CHVI identified in Quadrant 5 26
Figure 7: Known and potential properties of CHVI identified in Quadrant 6 29
Figure 8: Known and potential properties of CHVI identified in Quadrant 7 36
Figure 9: Known and potential properties of CHVI identified in Quadrant 8 44
Figure 10: Known and potential properties of CHVI identified in Quadrant 9 46
Figure 11: Known and potential properties of CHVI identified in Quadrant 10 51
Figure 12: Known and potential properties of CHVI identified in Quadrant 11 58
Figure 13: Known and potential properties of CHVI identified in Quadrant 12 63

APPENDICES

APPENDIX A
MHSTCI Checklist

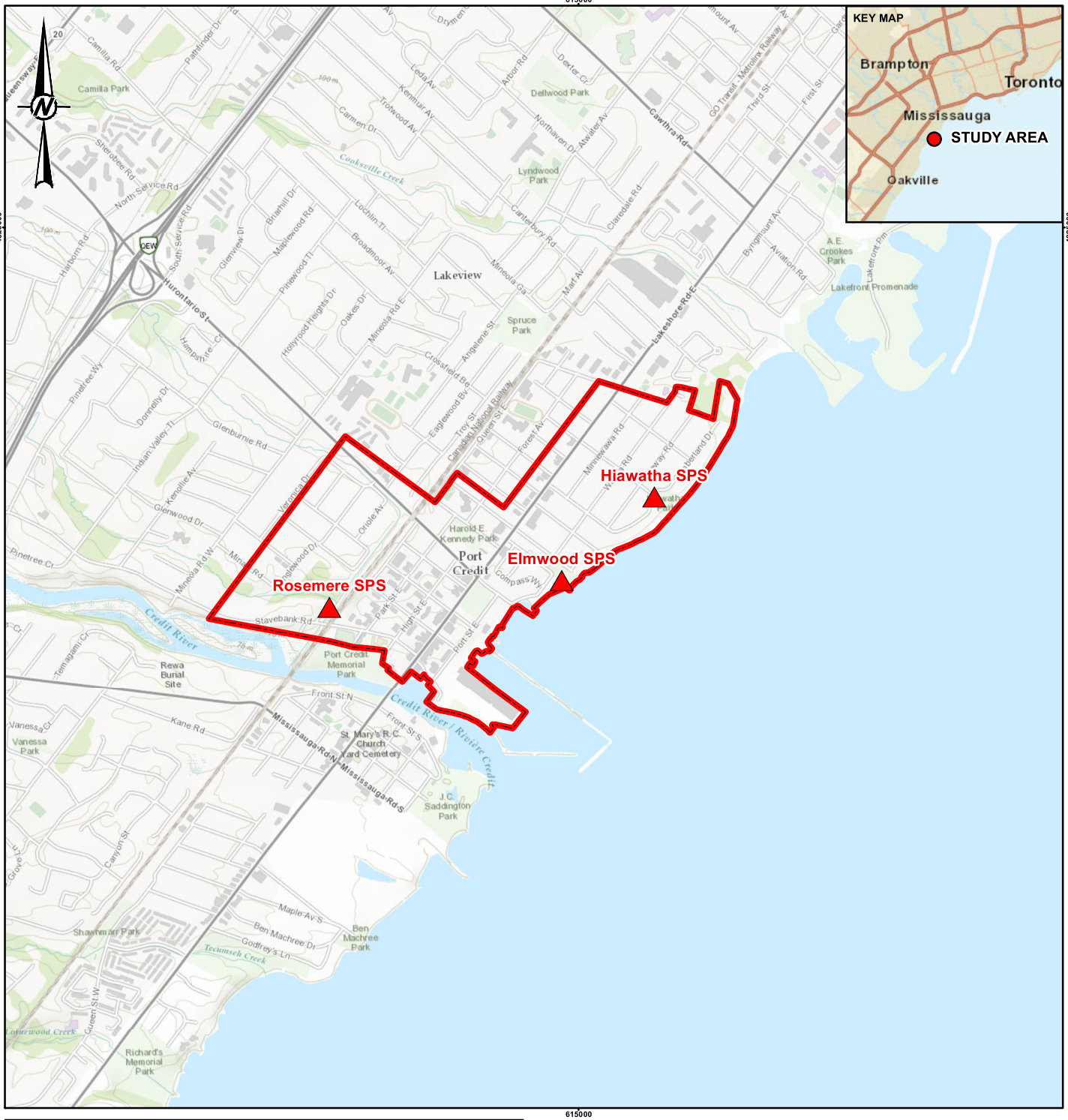
APPENDIX B
Supplementary Documentation

1.0 INTRODUCTION

In March 2020, GM BluePlan Engineering Limited (GM BluePlan) retained Golder Associates Ltd. (Golder) to conduct a Cultural Heritage Screening Report (CHSR) as part of a Schedule C Municipal Class Environmental Assessment (MCEA) for the Port Credit East Wastewater Servicing Optimization Strategy (the Project) in the City of Mississauga, Region of Peel, Ontario. The purpose of the Project is to investigate alternative wastewater strategies for the Rosemere, Hiawatha, and Elmwood sewage pumping station (SPS) servicing areas and develop an integrated servicing strategy that supports existing servicing needs and projected growth.

The study area (as defined by GMBP) is generally limited by the Credit River in the south, Veronica Drive and just east of Forest Avenue in the west, just south of Enola Avenue in the north, and Lake Ontario in the east. (Figure 1).

The objectives of this CHSR are to identify from desktop sources all known and potential cultural heritage resources within or crossed by the study area and determine if the Project will require subsequent cultural heritage studies such as a Cultural Heritage Existing Conditions and Preliminary Impact Assessment (CHECPIA) or site-specific Cultural Heritage Evaluation Reports (CHERs) or Heritage Impact Assessments (HIAs). This CHSR follows the *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* checklist published by the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) in 2016.



LEGEND

- SPS STATION
- STUDY AREA

0 500 1,000

1:25,000 METRES

REFERENCE(S)

1. SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
2. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
SITE LOCATION PLAN

PROJECT NO.	CONTROL	REV.	FIGURE
1912019	0012	B	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A

25mm

0

PATH: S:\Clients\Region of Peel\Elmwood Hiawatha SPS\99 PROJ\19-29019 GMBP SPS EA\40 PROD\0012 Cultural Heritage PortCreditEast\19129019-0012-HA-0001.mxd PRINTED ON: 2020-12-01 AT: 12:46:23 PM

2.0 KEY LEGISLATION & POLICIES

In Ontario, several provincial and municipal policies and legislation guide identifying, protecting, and managing cultural heritage resources.

2.1 Environmental Assessment Act

The *Environmental Assessment Act (EAA)* was drafted to ensure that Ontario's environment is protected, conserved, and wisely managed. Under the *EAA,* "environment" includes not only natural elements such as air, land, water and plant and animal life, but also the "social, economic and cultural conditions that influence the life of humans or a community", and "any building, structure, machine or other device or thing made by humans". To determine the potential environmental effects of a new development, the Environmental Assessment (EA) process was created to standardize decision-making.

2.2 Planning Act and Provincial Policy Statement 2020

The Ontario *Planning Act* (1990) and associated *Provincial Policy Statement* 2020 (PPS 2020) mandate heritage conservation in land use planning. Under the *Planning Act*, conservation of "features of significant architectural, cultural, historical, archaeological or scientific interest" are a "matter of provincial interest" and integrates this at the provincial and municipal levels through the PPS 2020. Issued under Section 3 of the *Planning Act*, PPS 2020 recognizes that cultural heritage and archaeological resources "provide important environmental, economic, and social benefits", and that "encouraging a sense of place, by promoting well-designed built form and cultural planning, and by conserving features that help define character, including *built heritage resources* and *cultural heritage landscapes*" supports long-term economic prosperity (PPS 2020:6,22).

The importance of identifying and evaluating built heritage and cultural heritage landscapes is recognized in two policies of PPS 2020:

- Section 2.6.1 – *Significant built heritage resources* and *significant heritage landscapes* shall be conserved
- Section 2.6.3 – Planning authorities shall not permit *development* and *site alteration* on *adjacent lands* to *protected heritage property* except where the proposed *development* and *site alteration* has been evaluated and it has been demonstrated that the *heritage attributes* of the *protected heritage property* will be conserved

Each of the italicised terms is defined in Section 6.0 of PPS 2020:

- ***Adjacent lands*:** for the purposes of policy 2.6.3, those lands contiguous to a *protected heritage property* or as otherwise defined in the municipal official plan.
- ***Built heritage resource:*** means a building, structure, monument, installation or any manufactured or constructed part or remnant that contributes to a property's cultural heritage value or interest as identified by a community, including an Indigenous community. *Built heritage resources* are located on property that may be designated under Parts IV or V of the *Ontario Heritage Act*, or that may be included on local, provincial, federal and/or international registers.

- ***Conserved*:** means the identification, protection, management and use of built heritage resources, cultural heritage landscapes, and archaeological resources in a manner that ensures their cultural heritage value or interest is retained. This may be achieved by the implementation of recommendations set out in a conservation plan, archaeological assessment, and/or heritage impact assessment that has been approved, accepted, or adopted by the relevant planning authority and/or decision-maker. Mitigative measures and/or alternative development approaches can be included in these plans and assessments.
- ***Cultural heritage landscape:*** means a defined geographical area that may have been modified by human activity and is identified as having cultural heritage value or interest by a community, including an Indigenous community. The area may include features such as buildings, structures, spaces, views, archaeological sites, or natural elements that are valued together for their interrelationship, meaning, or association. Cultural heritage landscapes may be properties that have been determined to have cultural heritage value or interest under the *Ontario Heritage Act*; or have been included on federal and/or international registers, and/or protected through official plan, zoning by-law, or other land use planning mechanisms.
- ***Development*:** means the creation of a new lot, a change in land use, or the construction of buildings and structures requiring approval under the Planning Act.
- ***Heritage attributes:*** the principal features or elements that contribute to a protected heritage property's cultural heritage value or interest, and may include the property's built, constructed, or manufactured elements, as well as natural landforms, vegetation, water features, and its visual setting (e.g., significant views or vistas to or from a protected heritage property).
- ***Protected heritage property:*** property designated under Parts IV, V, or VI of the *Ontario Heritage Act*; property subject to a heritage conservation easement under Parts II or IV of the *Ontario Heritage Act*; property identified by the Province and prescribed public bodies as provincial heritage property under the Standards and Guidelines for Conservation of Provincial Heritage Properties; property protected under federal legislation, and UNESCO World Heritage Sites.
- ***Significant*:** means, in regard to cultural heritage and archaeology, resources that have been determined to have cultural heritage value or interest. Processes and criteria for determining cultural heritage value or interest are established by the Province under the authority of the *Ontario Heritage Act*.

Importantly, the definition for *significant* includes a caveat that "criteria for determining significance…are recommended by the Province, but municipal approaches that achieve or exceed the same objective may also be used", and that "while some significant resources may already be identified and inventoried by official sources, the significance of others can only be determined after evaluation."

For municipalities, PPS 2020 is implemented through an Official Plan, which may outline further heritage policies.

2.3 Ontario Heritage Act and *Ontario Regulation 9/06*

The *Ontario Heritage Act (OHA)* enables the Province and municipalities to conserve significant individual properties and areas. For provincially owned, administered, or occupied heritage properties, compliance with the MHSTCI S&Gs is mandatory under Part III of the *OHA* and holds the same authority for ministries and prescribed public bodies as a Management Board or Cabinet directive. For municipalities, Part IV, and Part V of the *OHA* enables council to "designate" individual properties (Part IV), or properties within a heritage conservation district

(HCD) (Part V), as being of "cultural heritage value or interest" (CHVI). Evaluation for CHVI under the *OHA* (or *significance* under PPS 2020) is guided by *Ontario Regulation 9/06* (*O. Reg. 9/06*), which prescribes the *criteria for determining cultural heritage value or interest*. *O. Reg. 9/06* has three categories of absolute or non-ranked criteria, each with three sub-criteria:

1) The property has ***design value or physical value*** because it:

   i) Is a rare, unique, representative or early example of a style, type, expression, material or construction method;

   ii) Displays a high degree of craftsmanship or artistic merit; or,

   iii) Demonstrates a high degree of technical or scientific achievement.

2) The property has historic value or associative value because it:

   i) Has direct associations with a theme, event, belief, person, activity, organization, or institution that is significant to a community;

   iv) Yields, or has the potential to yield information that contributes to an understanding of a community or culture; or,

   v) Demonstrates or reflects the work or ideas of an architect, artist, builder, designer, or theorist who is significant to a community.

3) The property has ***contextual value*** because it:

   i) Is important in defining, maintaining or supporting the character of an area;

   vi) Is physically, functionally, visually or historically linked to its surroundings; or,

   vii) Is a landmark.

A property needs to meet only one criterion of *O. Reg. 9/06* to be considered for designation under Part IV of the *OHA*. If found to meet one or more criterion, the property's CHVI is then described with a Statement of Cultural Heritage Value or Interest (SCHVI) that includes a brief property description, a succinct statement of the property's cultural heritage significance, and a list of its heritage attributes. In the *OHA* heritage attributes are defined slightly differently to the PPS 2020 and directly linked to real property[1]; therefore, in most cases a property's CHVI applies to the entire land parcel, not just individual buildings or structures. Once a municipal council decides to designate a property, it is recognized through by-law and added to a "Register" maintained by the municipal clerk. A municipality may also "list" a property on the Register to indicate it as having potential cultural heritage value or interest.

[1] The *OHA* definition "heritage attributes means, in relation to real property, and to the buildings and structures on the real property, the attributes of the property, buildings and structures that contribute to their cultural heritage value or interest."

3.0 SCOPE & METHOD

The scope for a CHSR is outlined in the MHSTCI *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes: A Checklist for the Non-Specialist* (2016; the MHSTCI *Checklist*). The MHSTCI *Checklist* provides a tool to identify from desktop sources all known or recognized cultural heritage resources in a study area, as well as commemorative plaques, cemeteries, Canadian Heritage River watersheds, properties with buildings 40 or more years old, or potential cultural heritage landscapes. Since cultural heritage is linked to real property under the *OHA*, the desktop analysis included all parcels within or crossed by the study area boundaries.

To complete the MHSTCI *Checklist*, Golder undertook the following tasks:

- **Task 1:** Review of federal, provincial, and municipal heritage registers, inventories, databases, historical maps, and aerial imagery to identify known or potential cultural heritage resources within the study area. These sources include:
  - *Canadian Register of Historic Places* (https://www.historicplaces.ca/en/pages/about-apropos.aspx)
  - *Parks Canada Directory of Federal Heritage Designations* (http://www.pc.gc.ca/apps/dfhd/search-recherche_eng.aspx) and *Directory of Heritage Railway Stations* (https://www.pc.gc.ca/en/culture/clmhc-hsmbc/pat-her/gar-sta/on)
  - *Ontario Heritage Trust Ontario Places of Worship Inventory* (https://www.heritagetrust.on.ca/en/places-of-worship/places-of-worship-database/search) and *Plaque Database* (http://www.heritagetrust.on.ca/en/online-plaque-guide)
  - *Canadian Heritage Rivers System* (https://chrs.ca/en)
  - *Ontario Historical County Maps Project* Web Map Application (http://utoronto.maps.arcgis.com/apps/webappviewer/index.html?id=8cc6be34f6b54992b27da17467492d2f)
  - *Historic Topographic Map Digitization Project* (https://ocul.on.ca/topomaps/collection/)
  - City of Mississauga
    - *Heritage Register* (https://www.mississauga.ca/wp-content/uploads/2020/06/10135918/2018-07-01_Mississauga_Heritage_Register_Web.pdf)
    - *Cultural Heritage Landscape Inventory* (http://www5.mississauga.ca/pdfs/Cultural_Landscape_Inventory_Jan05.pdf)
    - *Cultural Heritage Landscape Project* (https://yoursay.mississauga.ca/cultural-heritage-landscape-project/maps/phase-2-map)
    - *Old Port Credit Heritage Conservation District Plan 2018* (https://www7.mississauga.ca/documents/culture/heritage/Final_Version_HCD_Plan_January_2020.pdf)
    - *Interactive Online Mapping Service* pre-1980 aerial imagery (http://www6.mississauga.ca/missmaps/maps.aspx)

  - *Open Data: City Heritage Properties* (https://data.mississauga.ca/datasets/city-heritage-properties?geometry=-79.948%2C43.503%2C-79.294%2C43.590)
  - *Open Data: City Cemeteries* (https://data.mississauga.ca/datasets/city-cemeteries?geometry=-80.344%2C43.528%2C-79.037%2C43.702)
- Google Street View©

- **Task 2:** Contact heritage planning staff at the City of Mississauga
- **Task 3:** Map all identified known and potential built heritage resources and cultural heritage landscapes and recommended further studies based on the MHSTCI *Checklist*
  - To reduce complexity in mapping and description, the study area was divided into twelve quadrants, numbered from Quadrant 1 in the northwest to Quadrant 12 in the southeast.

4.0 STUDY RESULTS

4.1 Overview of Study Results

Tasks 1 to 3 identified:

- 8 protected heritage properties designated under Part IV of the *Ontario Heritage Act*
- 1 protected heritage property designated under Part V of the *Ontario Heritage Act*
- 67 properties listed (not designated) on the City of Mississauga's *Heritage Register*
- 4 cultural heritage landscapes listed (not designated) on the City of Mississauga's *Inventory of Cultural Heritage Landscapes*
- 648 properties with buildings or structures 40 or more years old of potential cultural heritage value or interest (CHVI)
- 1 potential cultural heritage landscape

These are identified by quadrant in the following sub-sections. the completed MHSTCI *Checklist* and supplementary documentation is provided in APPENDIX A and APPENDIX B.

4.2 Results of Engagement

Table 1 lists the results of engagement with City of Mississauga heritage planning staff.

Table 1: Municipal engagement

Contact	Information Request	Response Received
John Dunlop, Supervisor, Heritage Planning, City of Mississauga	Query sent via email on April 16, 2020 to confirm that the City's registry of designated properties, listed properties, and cultural heritage landscapes is up to date. Golder also inquired if there were any cemeteries or commemorative plaques within the Elmwood and Hiawatha areas, and if the City had any cultural heritage concerns.	Response received via email on April 20, 2020 providing a map of all heritage properties located within the Elmwood and Hiawatha areas. A link to the municipal map portal was also provided for further information on cemeteries, and it was noted that there are Ontario Heritage Trust plaques near the Elmwood and Hiawatha areas and several underwater archaeological resources in Lake Ontario. The City requested that Golder include mention of the Adamson Estates.
	Voicemail on November 25, 2020 to inquire if there are any cultural heritage constraints in the north extension of the study area.	Telephone conversation on November 26, 2020 noting that the north extension includes the Mineola Neighbourhood Cultural Heritage Landscape and the presence of a mature "tree of note" at 40 Oriole Avenue. Also noted was the high potential for archaeological sites along the Credit River.

4.3 Identified Known and Potential Built Heritage Resources & Cultural Heritage Landscapes

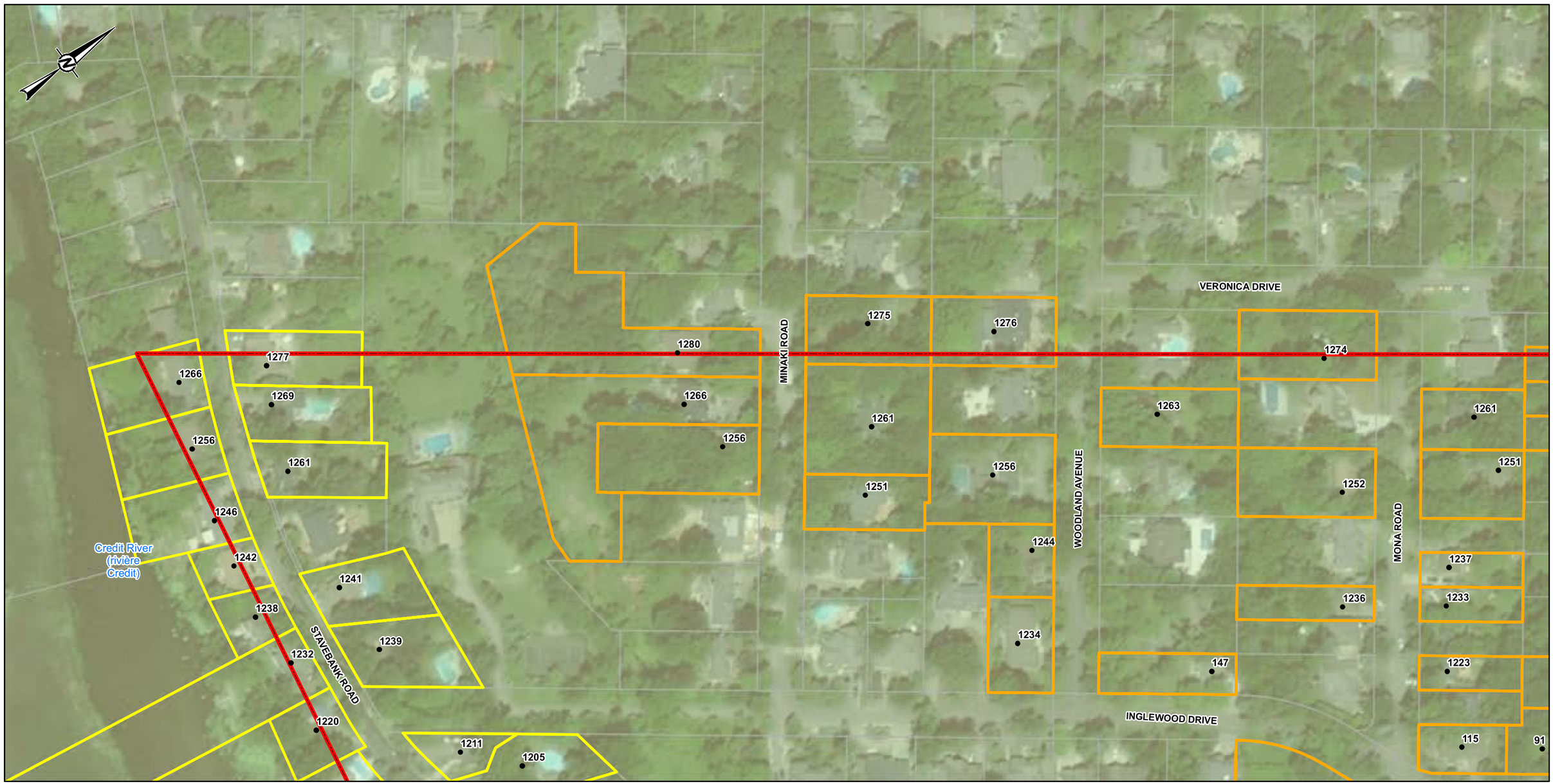
4.3.1 Quadrant 1

Table 2 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 1 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 2.

Table 2: Known and potential properties of CHVI identified through desktop analysis in Quadrant 1

Civic Address or Location	Description	Cultural Heritage Status
Covers entire quadrant	**Mineola Neighbourhood Cultural Heritage Landscape**	**Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* (L-RES-6)**
91 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
115 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
147 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1251 Minaki Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1256 Minaki Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1261 Minaki Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1266 Minaki Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1275 Minaki Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1280 Minaki Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1223 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1233 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1236 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1237 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1251 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1252 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1261 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1274 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
1205 Stavebank Road	**Early 20th century, Edwardian two-and-a-half storey residence**	**Heritage property listed (not designated) on the City *Heritage Register***
1211 Stavebank Road	**Storey-and-a-half dwelling built before 1971**	**Heritage property listed (not designated) on the City *Heritage Register***
1232 Stavebank Road	**Anderson Residence**	**Heritage property listed (not designated) on the City *Heritage Register***
1239 Stavebank Road	**One storey bungalow built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***
1241 Stavebank Road	**Storey-and-a-half dwelling built circa early 1900s**	**Heritage property listed (not designated) on the City *Heritage Register***
1256 Stavebank Road	**One storey bungalow built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***
1261 Stavebank Road	**One storey bungalow built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***
1266 Stavebank Road	**One storey bungalow built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***
1269 Stavebank Road	**One storey bungalow built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***
1277 Stavebank Road	**One storey bungalow built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***
1234 Woodland Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
1244 Woodland Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
1256 Woodland Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
1263 Woodland Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
1276 Woodland Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI



LEGEND

200 CIVIC ADDRESS

STUDY AREA

PARCEL BOUNDARY

CULTURAL HERITAGE STATUS

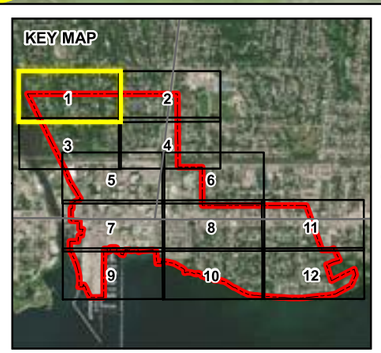
PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)

HERITAGE PROPERTY LISTED (NOT DESIGNATED) ON THE CITY HERITAGE REGISTER

CULTURAL HERITAGE LANDSCAPE

MINEOLA NEIGHBOURGOOD RESIDENTIAL LANDSCAPE

KEY MAP



0 50 100

1:1,700 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

CONSULTANT

GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

TITLE

KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 1

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	2

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PRO\0012_Cultural_Heritage_Port\Credit\East\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:46:10 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

4.3.2 Quadrant 2

Table 3 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 2 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 3.

Table 3: Known and potential properties of CHVI identified through desktop analysis in Quadrant 2

Civic Address or Location	Description	Cultural Heritage Status
Covers west portion of quadrant	**Mineola Neighbourhood Cultural Heritage Landscape**	**Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* (L-RES-6)**
36 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
39 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
45 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
48 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
51 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
54 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
58 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
59 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
64 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
65 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
70 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
71 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
74 Cotton Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1252 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1262 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1276 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
31 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
39 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
45 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
51 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
63 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
75 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
89 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
91 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1219 Old River Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1220 Old River Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1231 Old River Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1234 Old River Road	**Cotton-Hawksworth House, two storey log and clapboard house constructed circa 1856**	**Protected heritage property designated under Part IV of the *OHA* (By-law 516-85)**
1235 Old River Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
44 Veronica Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
70 Veronica Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
74 Veronica Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
86 Veronica Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1224 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1235 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1255 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1260 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1266 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1272 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI

LEGEND

200 CIVIC ADDRESS

STUDY AREA

PARCEL BOUNDARY

CULTURAL HERITAGE STATUS

PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)

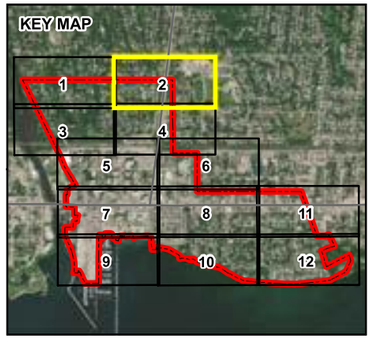
HERITAGE PROPERTY LISTED (NOT DESIGNATED) ON THE CITY HERITAGE REGISTER

PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)

CULTURAL HERITAGE LANDSCAPE

MINEOLA NEIGHBOURGOOD RESIDENTIAL LANDSCAPE

KEY MAP



0 50 100

1:1,700 METRES

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 2

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0012_Cultural_Heritage_PortCreekEast\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:46:18 PM

4.3.3 Quadrant 3

Table 4 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 3 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 4.

Table 4: Known and potential properties of CHVI identified through desktop analysis in Quadrant 3

Civic Address or Location	Description	Cultural Heritage Status
Covers entire quadrant	**Mineola Neighbourhood Cultural Heritage Landscape**	**Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* (L-RES-6)**
Linear corridor east-west in south portion of quadrant	Former Hamilton and Toronto Railway line, opened 1856.	Potential cultural heritage landscape
91 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
115 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1148 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1153 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1163 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1166 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1173 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1176 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1182 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1198 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1206 Mona Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
32 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1150 Stavebank Road	**Single storey dwelling built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***
1159 Stavebank Road	**Two storey dwelling built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***
1168 Stavebank Road	**Single storey dwelling built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***

Civic Address or Location	Description	Cultural Heritage Status
1171 Stavebank Road	Storey-and-a-half dwelling built before 1980	Heritage property listed (not designated) on the City *Heritage Register*
1174 Stavebank Road	Single storey dwelling built before 1980	Heritage property listed (not designated) on the City *Heritage Register*
1180 Stavebank Road	Single storey dwelling built before 1980	Heritage property listed (not designated) on the City *Heritage Register*
1181 Stavebank Road	Single storey dwelling built before 1980	Heritage property listed (not designated) on the City *Heritage Register*
1183 Stavebank Road	Single storey dwelling built before 1980	Heritage property listed (not designated) on the City *Heritage Register*
1186 Stavebank Road	Single storey dwelling built before 1980	Heritage property listed (not designated) on the City *Heritage Register*
1190 Stavebank Road	Two storey dwelling built after 1980	Heritage property listed (not designated) on the City *Heritage Register*
1196 Stavebank Road	Two storey brick dwelling built pre-1910	Heritage property listed (not designated) on the City *Heritage Register*
1204 Stavebank Road	Single storey dwelling built before 1980	Heritage property listed (not designated) on the City *Heritage Register*
1205 Stavebank Road	Two storey dwelling built after 1980	Heritage property listed (not designated) on the City *Heritage Register*
1210 Stavebank Road	Single storey bungalow built before 1980	Heritage property listed (not designated) on the City *Heritage Register*
1211 Stavebank Road	Single storey dwelling built before 1980	Heritage property listed (not designated) on the City *Heritage Register*
1220 Stavebank Road	Single storey bungalow built before 1980	Heritage property listed (not designated) on the City *Heritage Register*
1238 Stavebank Road	Single storey dwelling built circa 1910	Heritage property listed (not designated) on the City *Heritage Register*
1242 Stavebank Road	Single storey bungalow built before 1980	Heritage property listed (not designated) on the City *Heritage Register*

Civic Address or Location	Description	Cultural Heritage Status
1246 Stavebank Road	**Single to two-storey bungalow built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***
224 Webster's Lane	**Single storey dwelling built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***
232 Webster's Lane	Property with buildings or structures 40 or more years old	Property of potential CHVI
236 Webster's Lane	**Single storey dwelling built before 1980**	**Heritage property listed (not designated) on the City *Heritage Register***

LEGEND

200 CIVIC ADDRESS

SPS STATION

STUDY AREA

PARCEL BOUNDARY

CULTURAL HERITAGE STATUS

PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)

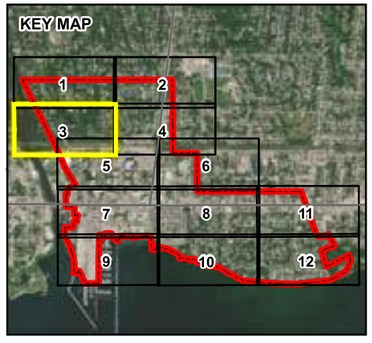
HERITAGE PROPERTY LISTED (NOT DESIGNATED) ON THE CITY HERITAGE REGISTER

PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)

CULTURAL HERITAGE LANDSCAPE

MINEOLA NEIGHBOURGOOD RESIDENTIAL LANDSCAPE

KEY MAP



0 50 100

1:1,700 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

CONSULTANT

GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

TITLE

KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 3

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	4

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0012_Cultural_Heritage_PortCreditEast\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:46:27 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

4.3.4 Quadrant 4

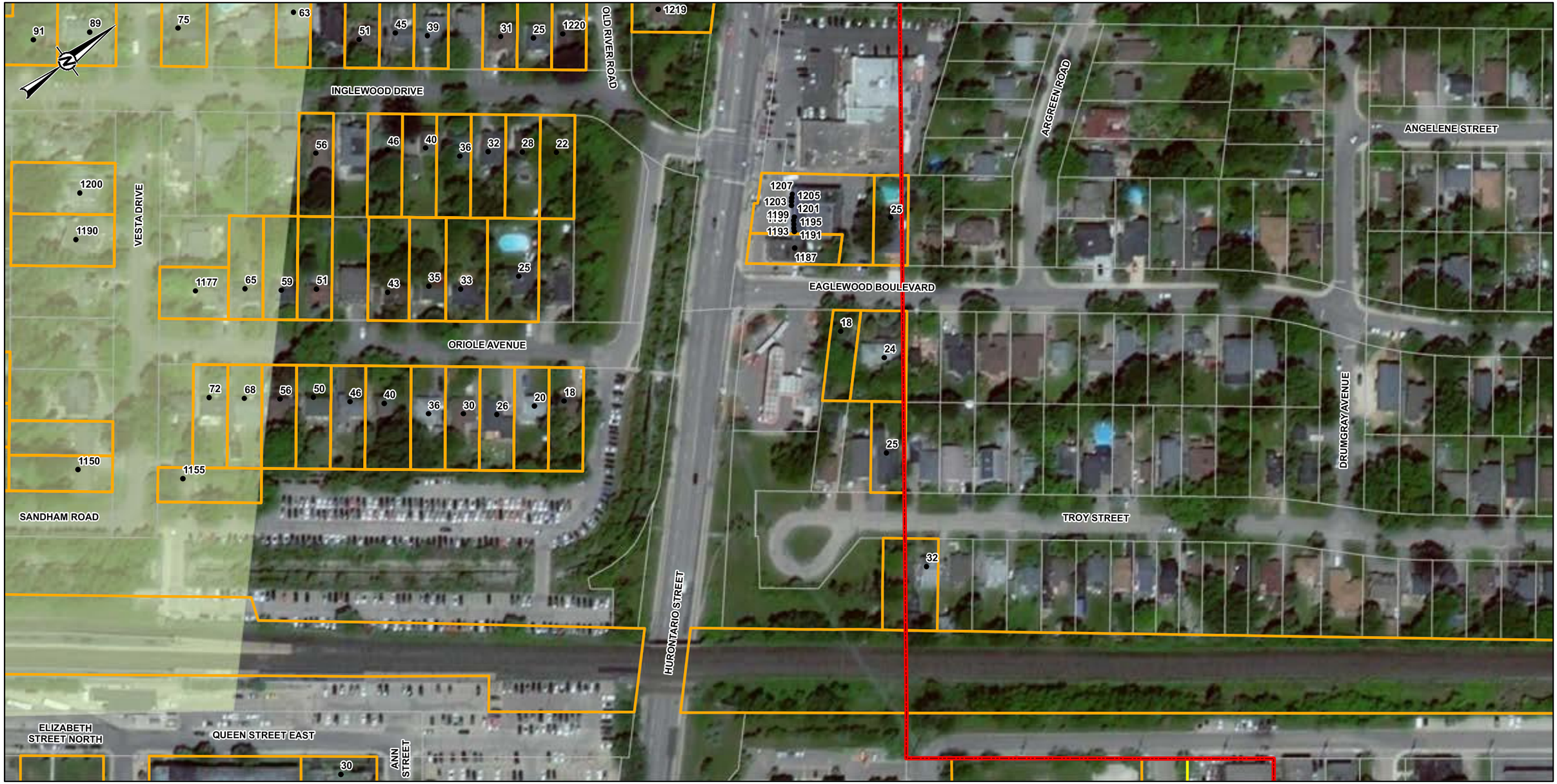
Table 5 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 4 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 5.

Table 5: Known and potential properties of CHVI identified through desktop analysis in Quadrant 4

Civic Address or Location	Description	Cultural Heritage Status
Covers west portion of quadrant	**Mineola Neighbourhood Cultural Heritage Landscape**	**Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* (L-RES-6)**
Linear corridor east-west in south portion of quadrant	Former Hamilton and Toronto Railway line, opened 1856.	Potential cultural heritage landscape
30 Ann Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
18 Eaglewood Blvd	Property with buildings or structures 40 or more years old	Property of potential CHVI
24 Eaglewood Blvd	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Eaglewood Blvd	Property with buildings or structures 40 or more years old	Property of potential CHVI
1187 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1191 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1193 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1195 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1197 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1199 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1201 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1203 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1205 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1207 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
22 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
28 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
31 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
32 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
36 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
39 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
40 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
45 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
46 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
51 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
56 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
63 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
75 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
89 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
91 Inglewood Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1219 Old River Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1220 Old River Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
18 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
20 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
26 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
30 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
33 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
35 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
36 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
40 Oriole Avenue	Property with buildings or structures 40 or more years old and mature tree of note.	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
43 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
46 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
50 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
51 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
56 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
59 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
65 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
68 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
72 Oriole Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
129 Queen Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Troy Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1150 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1155 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1177 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1190 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
1200 Vesta Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI



LEGEND

200 CIVIC ADDRESS

STUDY AREA

PARCEL BOUNDARY

CULTURAL HERITAGE STATUS

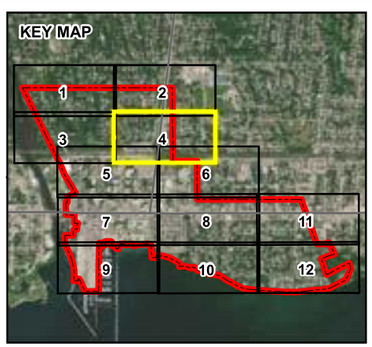
PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)

HERITAGE PROPERTY LISTED (NOT DESIGNATED) ON THE CITY HERITAGE REGISTER

CULTURAL HERITAGE LANDSCAPE

MINEOLA NEIGHBOURGOOD RESIDENTIAL LANDSCAPE

KEY MAP



0 50 100

1:1,700 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT

GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

PROJECT

PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE

KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 4

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	5

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\19129019_GMBP_SPS_EA40_PROD\0012_Cultural_Heritage_PortCreekEast\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:46:35 PM

4.3.5 Quadrant 5

Table 6 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 5 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 6.

Table 6: Known and potential properties of CHVI identified through desktop analysis in Quadrant 5

Civic Address or Location	Description	Cultural Heritage Status
Covers northwest portion of quadrant	**Mineola Neighbourhood Cultural Heritage Landscape**	**Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* (L-RES-6)**
Covers southwest portion of quadrant	**Old Port Credit Cultural Heritage Landscape**	**Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* (L-HS-1)**
Linear corridor east-west in south portion of quadrant	Former Hamilton and Toronto Railway line, opened 1856.	Potential cultural heritage landscape
17 Ann Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Ann Street	**John Thomson House, constructed circa 1889**	**Heritage property listed (not designated) on the City *Heritage Register***
22 Ann Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
24 Ann Street	**Storey-and-a-half Gothic Revival farmhouse built circa 1870**	**Heritage property listed (not designated) on the City *Heritage Register***
26 Ann Street	**Single-storey Spanish Colonial Revival circa 1930**	**Heritage property listed (not designated) on the City *Heritage Register***
28 Ann Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
30 Ann Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
15 Elizabeth Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
20 Elizabeth Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
23 Elizabeth Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
28 Elizabeth Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
23 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
27 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
28 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
29 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
31 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
30 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
50 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
66 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
68 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
72 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
80 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
84 High Street	**Charles Hamilton House constructed circa 1912 by architects Chadwick and Beckett**	**Protected heritage property designated under Part IV of the *OHA* (By-law 206-2007)**
90 High Street	**William Thomas Gray House constructed in 1909 by architect John Francis Brown**	**Protected heritage property designated under Part IV of the *OHA* (By-law 385-2005)**
12 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
26 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
33 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
41 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
42 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
44 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
45 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
46 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
52 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
55 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
65 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
70 Park Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
78 Park Street	**Storey-and-a-half gabled ell farmhouse built circa 1870**	**Heritage property listed (not designated) on the City *Heritage Register***
19 Stavebank Road	**William Shaw House, constructed 1854**	**Heritage property listed (not designated) on the City *Heritage Register***
20 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
22 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
24 Stavebank Road	**Saint Andrew's Memorial Presbyterian Church, constructed 1890**	**Heritage property listed (not designated) on the City *Heritage Register***
26 Stavebank Road	**Trinity Anglican Church, constructed in 1867; additions and alterations 1926, 1949, 1952. The church is associated with a cemetery.**	**Heritage property listed (not designated) on the City *Heritage Register***
29 Stavebank Road	**Cenotaph Park and Cenotaph, constructed in 1925**	**Protected heritage property designated under Part IV of the *OHA* (By-law 118-84)**
30 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
35 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
39 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
40 Stavebank Road	**Port Credit Memorial Arena, constructed 1959**	**Protected heritage property designated under Part IV of the *OHA* (By-law 261-2011)**

STAVEBANK ROAD
PARK STREET EAST
QUEEN STREET EAST
HURONTARIO STREET
ELIZABETH STREET NORTH
HELENE STREET NORTH
ANN STREET
HIGH STREET EAST

LEGEND

- **200** CIVIC ADDRESS
- SPS STATION
- STUDY AREA
- PARCEL BOUNDARY

CULTURAL HERITAGE STATUS

- PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)
- HERITAGE PROPERTY LISTED (NOT DESIGNATED) ON THE CITY HERITAGE REGISTER
- PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)

CULTURAL HERITAGE LANDSCAPE

- OLD PORT CREDIT CULTURAL HERITAGE LANDSCAPE
- MINEOLA NEIGHBOURGOOD RESIDENTIAL LANDSCAPE

KEY MAP

0 50 100
1:1,700 METRES

REFERENCE(S)
1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 5

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\19129019_GMBP_SPS_EA\40_PROD\0012_Cultural_Heritage_PortCredit\Mxd\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:46:43 PM

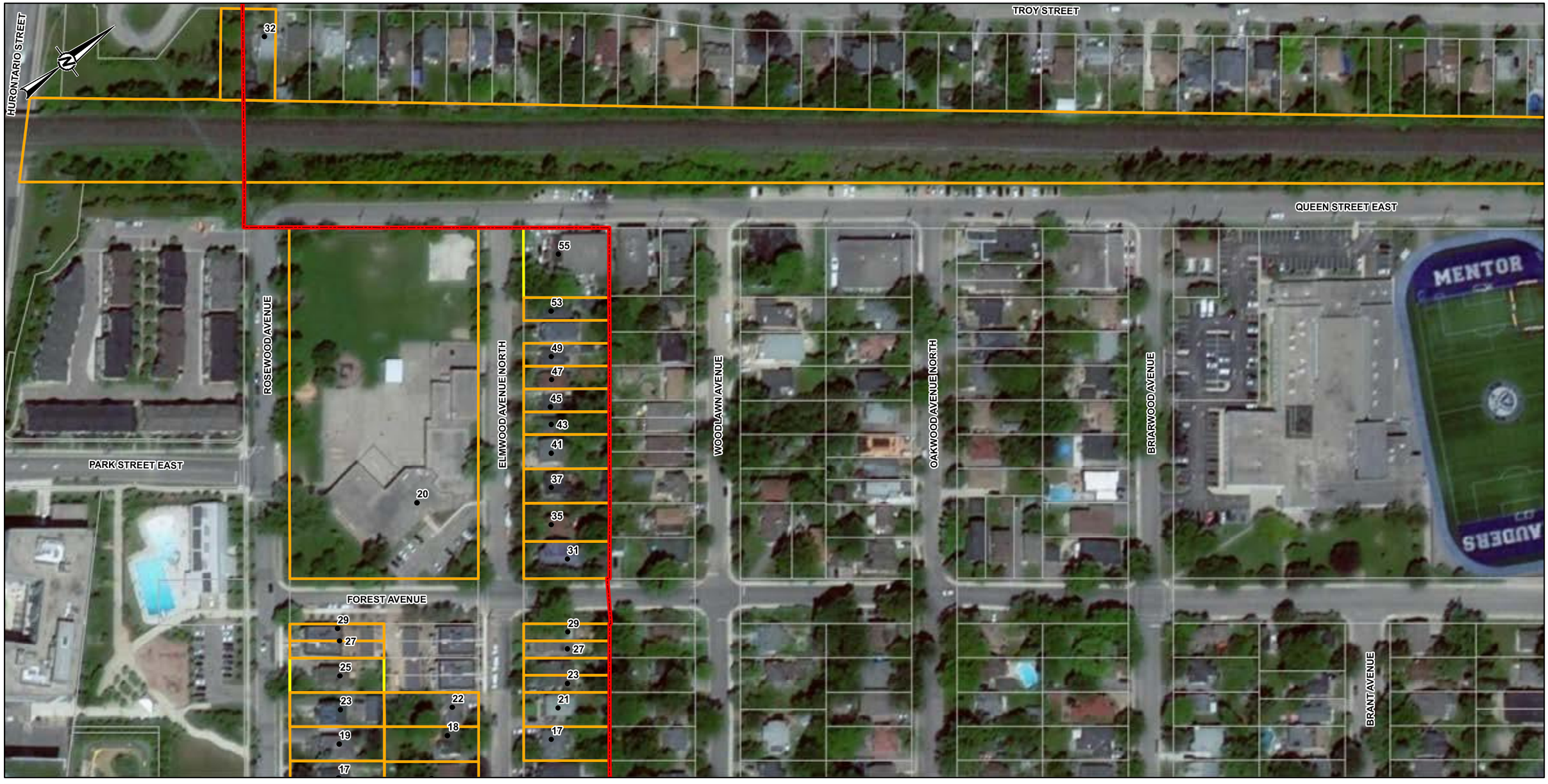
4.3.6 Quadrant 6

Table 7 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 6 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 7.

Table 7: Known and potential properties of CHVI identified through desktop analysis in Quadrant 6

Civic Address or Location	Description	Cultural Heritage Status
Linear corridor east-west in south portion of quadrant	Former Hamilton and Toronto Railway line, opened 1856.	Potential cultural heritage landscape
17 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
18 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
21 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
22 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
23 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
27 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
29 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
31 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
35 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
37 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
41 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
43 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
45 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
47 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
49 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
53 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
55 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
20 Forest Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Rosewood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
23 Rosewood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Rosewood Avenue	Wainwright Residence, constructed 1910	Heritage property listed (not designated) on the City *Heritage Register*
27 Rosewood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
29 Rosewood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
32 Troy Street	Property with buildings or structures 40 or more years old	Property of potential CHVI



LEGEND

200 CIVIC ADDRESS

STUDY AREA

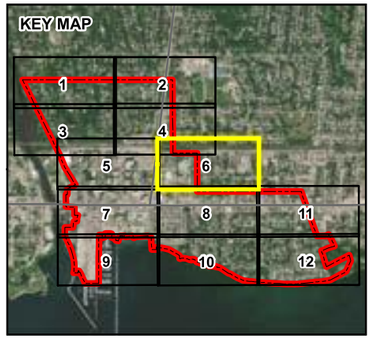
PARCEL BOUNDARY

CULTURAL HERITAGE STATUS

PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)

HERITAGE PROPERTY LISTED (NOT DESIGNATED) ON THE CITY HERITAGE REGISTER

KEY MAP



0 50 100

1:1,700 METRES

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

REFERENCE(S)
1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 6

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	7

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0012_Cultural_Heritage_PortCreditEast\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:46:51 PM

4.3.7 Quadrant 7

Table 8 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 7 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 8.

Table 8: Known and potential properties of CHVI identified through desktop analysis in Quadrant 7

Civic Address or Location	Description	Cultural Heritage Status
Small section of Lakeshore Road East in the west central portion of the quadrant	**Old Port Credit Village Heritage Conservation District**	**Protected heritage property designated under Part V of the *OHA* (By-law 0272-2004)**
Covers northwest portion of quadrant	**Old Port Credit Cultural Heritage Landscape**	**Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* (L-HS-1)**
Covers southwest portion of quadrant	**Port Credit Harbour Cultural Heritage Landscape**	**Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* (L-PA-1)**
5 Ann Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
6 Elizabeth Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Elizabeth Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
6 Helene Street	**Joseph Naish House, constructed circa 1870**	**Heritage property listed (not designated) on the City *Heritage Register***
7 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
8 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Helene Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
31 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
69 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
71 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
71 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
89 High Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
6 Hurontario Street	Property with buildings or structures 40 or more years old	Property of potential CHVI

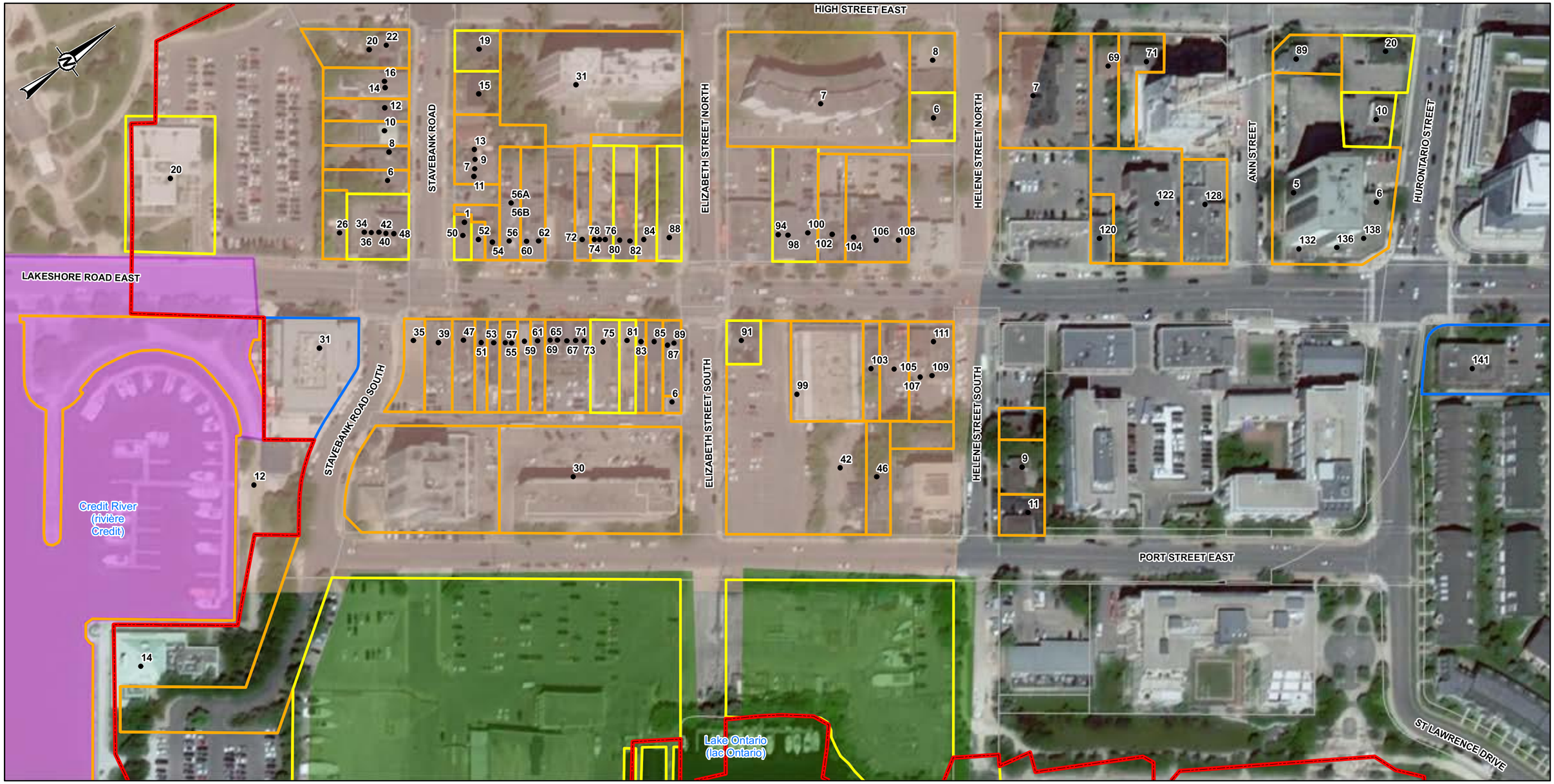
Civic Address or Location	Description	Cultural Heritage Status
10 Hurontario Street	**Gummerson Property, building constructed 1919**	**Heritage property listed (not designated) on the City *Heritage Register***
20 Hurontario Street	**Heary House, constructed 1912**	**Heritage property listed (not designated) on the City *Heritage Register***
20 Lakeshore Road	**Port Credit Memorial Park and Library**	**Heritage property listed (not designated) on the City *Heritage Register***
26 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
31 Lakeshore Road	**Port Credit Post Office, Customs House, and Armoury**	**Protected heritage property designated under Part IV of the *OHA* (By-law 067-2013)**
34 Lakeshore Road	**Two storey commercial block**	**Heritage property listed (not designated) on the City *Heritage Register***
35 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
36 Lakeshore Road	**Two storey commercial block**	**Heritage property listed (not designated) on the City *Heritage Register***
39 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
40 Lakeshore Road	**Brick building constructed circa 1930**	**Heritage property listed (not designated) on the City *Heritage Register***
42 Lakeshore Road	**Two storey red brick commercial block**	**Heritage property listed (not designated) on the City *Heritage Register***
47 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
48 Lakeshore Road	**Two storey red brick commercial block**	**Heritage property listed (not designated) on the City *Heritage Register***
50 Lakeshore Road	**Two storey red brick commercial block**	**Heritage property listed (not designated) on the City *Heritage Register***
51 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
52 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
53 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
54 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
55 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
56 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
57 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
59 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
60 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
61 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
62 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
65 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
67 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
69 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
71 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
72 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
73 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
74 Lakeshore Road	**Commercial building constructed 1900**	**Heritage property listed (not designated) on the City *Heritage Register***
75 Lakeshore Road	**Vogue Movie Theatre, constructed in 1936, E.L. Farrow & Sons (architect)**	**Heritage property listed (not designated) on the City *Heritage Register***
76 Lakeshore Road	**Commercial building constructed 1900**	**Heritage property listed (not designated) on the City *Heritage Register***
78 Lakeshore Road	**Commercial building constructed 1900**	**Heritage property listed (not designated) on the City *Heritage Register***
80 Lakeshore Road	**Kosmas Residence, constructed circa 1890**	**Heritage property listed (not designated) on the City *Heritage Register***
81 Lakeshore Road	**Shortwave Electronics, constructed circa 1890**	**Heritage property listed (not designated) on the City *Heritage Register***
82 Lakeshore Road	**Kosmas Residence, constructed circa 1890**	**Heritage property listed (not designated) on the City *Heritage Register***

Civic Address or Location	Description	Cultural Heritage Status
83 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
84 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
85 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
87 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
88 Lakeshore Road	**Toronto Dominion Bank, constructed in 1948**	**Heritage property listed (not designated) on the City *Heritage Register***
89 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
91 Lakeshore Road	**James Building, constructed in 1880**	**Heritage property listed (not designated) on the City *Heritage Register***
94 Lakeshore Road	**Red brick commercial building constructed in 1900**	**Heritage property listed (not designated) on the City *Heritage Register***
98 Lakeshore Road	**Red brick commercial building constructed in 1900**	**Heritage property listed (not designated) on the City *Heritage Register***
99 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
100 Lakeshore Road	**Red brick commercial building constructed in 1900**	**Heritage property listed (not designated) on the City *Heritage Register***
102 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
103 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
104 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
105 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
106 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
107 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
108 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
109 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
111 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
120 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
122 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
122 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
128 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
128 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
132 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
136 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
138 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
141 Lakeshore Road	**Street. Lawrence Starch Limited Administration Building, constructed in 1932**	**Protected heritage property designated under Part IV of the *OHA* (By-law 446-93)**
56a Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
56b Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
30 Port Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
42 Port Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
46 Port Street	Property with buildings or structures 40 or more years old	Property of potential CHVI
1 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
6 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
8 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
13 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
14 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
15 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
16 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Stavebank Road	**William Shaw House, constructed 1854**	**Heritage property listed (not designated) on the City *Heritage Register***
20 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
22 Stavebank Road	Property with buildings or structures 40 or more years old	Property of potential CHVI



LEGEND

- **200** CIVIC ADDRESS
- STUDY AREA
- PARCEL BOUNDARY

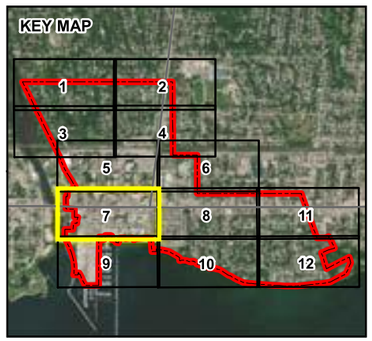
CULTURAL HERITAGE STATUS

- PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)
- HERITAGE PROPERTY LISTED (NOT DESIGNATED) ON THE CITY HERITAGE REGISTER
- PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)
- OLD PORT CREDIT VILLAGE HERITAGE CONSERVATION DISTRICT

CULTURAL HERITAGE LANDSCAPE

- OLD PORT CREDIT CULTURAL HERITAGE LANDSCAPE
- PORT CREDIT HARBOUR CULTURAL HERITAGE LANDSCAPE

KEY MAP



0 50 100

1:1,700 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 7

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	8

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0012_Cultural_Heritage_PortCreditEast\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:47:00 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

4.3.8 Quadrant 8

Table 9 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 8 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 9.

Table 9: Known and potential properties of CHVI identified through desktop analysis in Quadrant 8

Civic Address or Location	Description	Cultural Heritage Status
3 Brant Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
6 Brant Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Brant Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Brant Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Brant Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Brant Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Brant Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
1 Briarwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Briarwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Briarwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Briarwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Briarwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
14 Briarwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
3 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
5 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
6 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
13 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
14 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
16 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
21 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
24 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
15 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
16 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
17 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
18 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Elmwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
2 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
6 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
8 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
14 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
16 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
18 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
22 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI

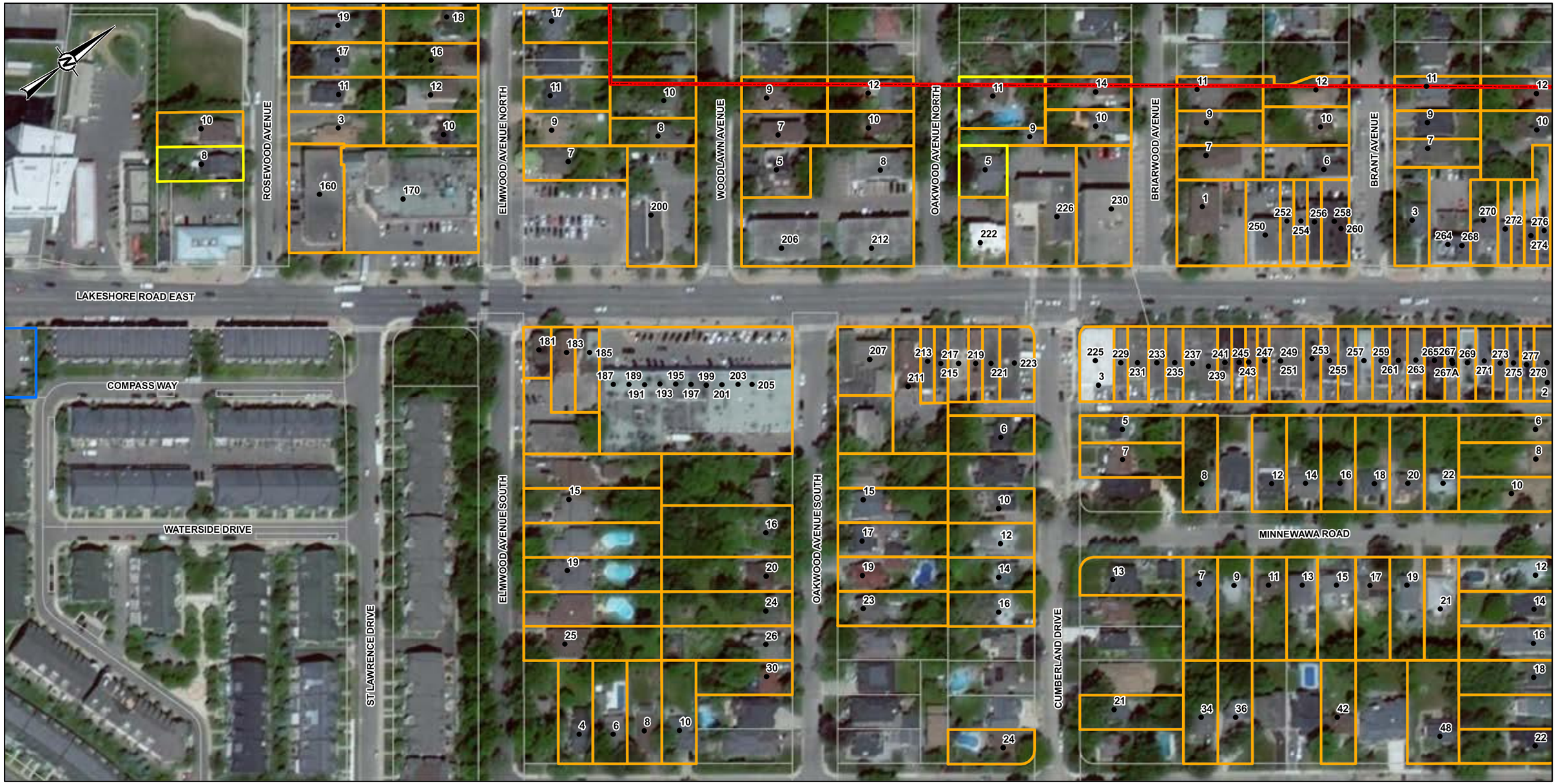
Civic Address or Location	Description	Cultural Heritage Status
160 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
170 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
181 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
183 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
185 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
187 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
189 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
191 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
193 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
195 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
197 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
199 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
200 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
201 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
203 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
205 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
206 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
207 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
211 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
212 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
213 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
215 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
217 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
219 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
221 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
222 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
223 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
225 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
226 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
229 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
230 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
231 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
233 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
235 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
237 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
239 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
241 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
243 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
245 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
247 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
249 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
250 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
251 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
252 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
253 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
254 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
255 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
256 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
257 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
258 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
259 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
260 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
261 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
263 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
264 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
265 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
267 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
268 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
269 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
270 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
271 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
272 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
273 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
274 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
275 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
276 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
277 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
279 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
8 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
12 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
13 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
14 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
15 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
16 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
17 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
18 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
20 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
21 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
22 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Mohawk Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Mohawk Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
5 Oakwood Avenue	**Single storey Tudor Revival**	**Heritage property listed (not designated) on the City *Heritage Register***
8 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Oakwood Avenue	**Two storey Edwardian Classicism**	**Heritage property listed (not designated) on the City *Heritage Register***
12 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
15 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
16 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
17 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
20 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
23 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
24 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
26 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
30 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
3 Rosewood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
8 Rosewood Avenue	**Deane Residence, constructed circa 1910**	**Heritage property listed (not designated) on the City *Heritage Register***
10 Rosewood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Rosewood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
17 Rosewood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Rosewood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
4 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
6 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
8 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
34 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
36 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
42 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
48 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
5 Woodlawn Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Woodlawn Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
8 Woodlawn Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Woodlawn Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Woodlawn Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI

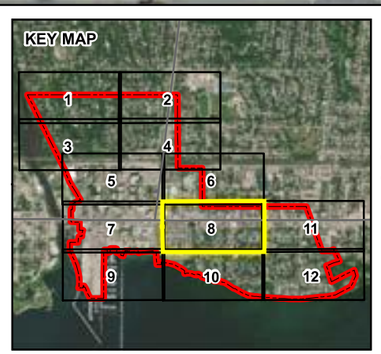


LEGEND

- **200** CIVIC ADDRESS
- STUDY AREA
- PARCEL BOUNDARY

CULTURAL HERITAGE STATUS

- PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)
- HERITAGE PROPERTY LISTED (NOT DESIGNATED) ON THE CITY HERITAGE REGISTER
- PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)



0 50 100

1:1,700 METRES

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 8

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	9

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

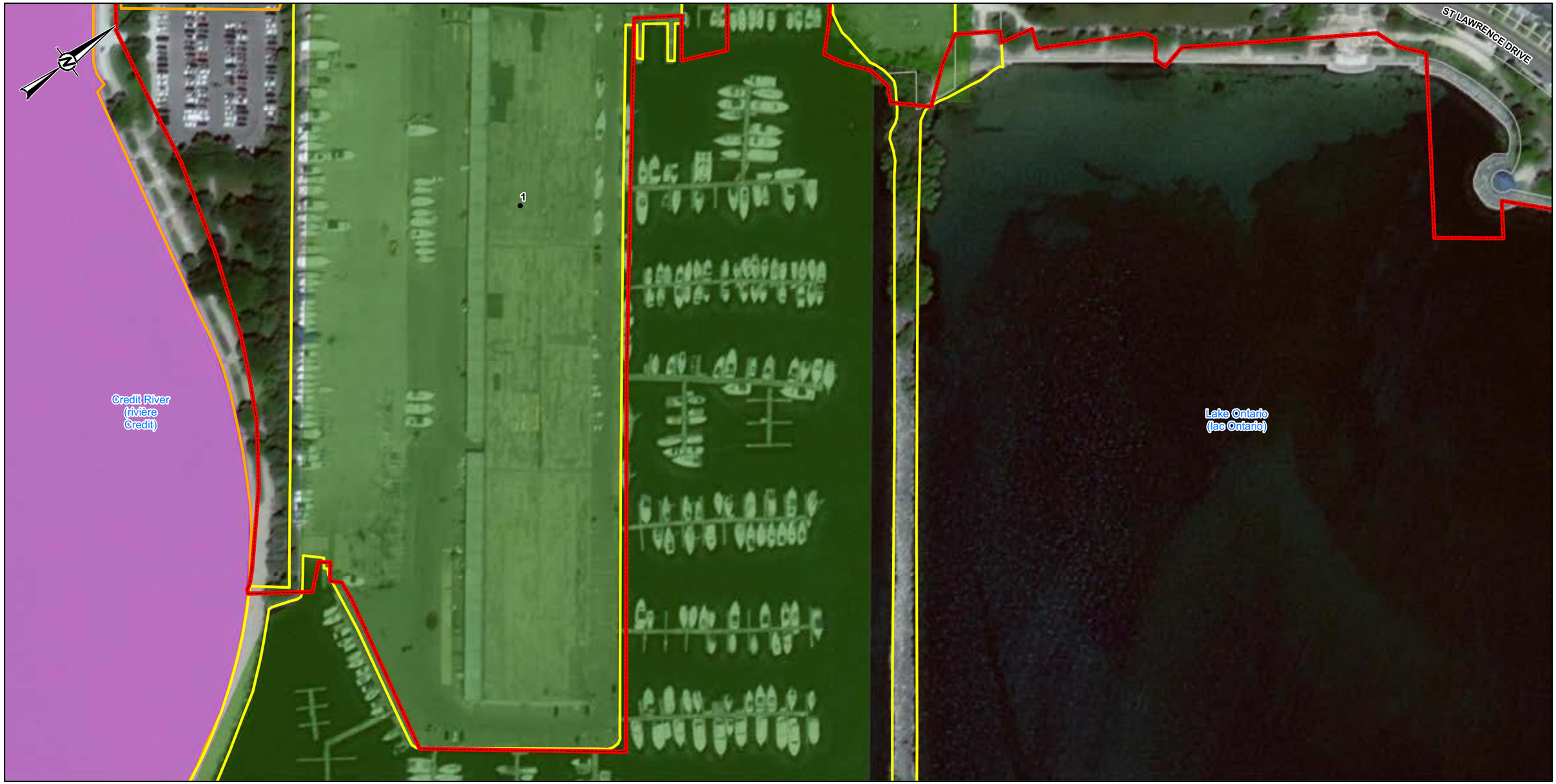
PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\69_PROJ\19129019_GMBP_SPS_EA\46_PROD\0012_Cultural_Heritage_Port\Cred\East\19129019-0012-HIA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:47:09 PM

4.3.9 Quadrant 9

Table 10 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 9 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 10.

Table 10: Known and potential properties of CHVI identified through desktop analysis in Quadrant 9

Civic Address or Location	Description	Cultural Heritage Status
Covers south-central portion of quadrant	**Port Credit Harbour Cultural Heritage Landscape**	**Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* (L-PA-1)**
1 Port Street	**Three storey International style office block**	**Heritage property listed (not designated) on the City *Heritage Register***



LEGEND

200 CIVIC ADDRESS

STUDY AREA

PARCEL BOUNDARY

CULTURAL HERITAGE STATUS

PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)

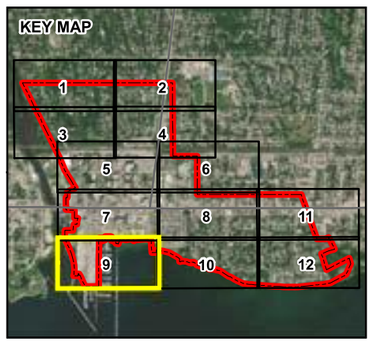
HERITAGE PROPERTY LISTED (NOT DESIGNATED) ON THE CITY HERITAGE REGISTER

OLD PORT CREDIT VILLAGE HERITAGE CONSERVATION DISTRICT

CULTURAL HERITAGE LANDSCAPE

OLD PORT CREDIT CULTURAL HERITAGE LANDSCAPE

PORT CREDIT HARBOUR CULTURAL HERITAGE LANDSCAPE



0 50 100

1:1,700 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

CONSULTANT

GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

TITLE

KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 9

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	10

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PRO\0012_Cultural_Heritage_PortCredEast\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:47:18 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

4.3.10 Quadrant 10

Table 11 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 10 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 11.

Table 11: Known and potential properties of CHVI identified through desktop analysis in Quadrant 10

Civic Address or Location	Description	Cultural Heritage Status
2 Carlis Place	Property with buildings or structures 40 or more years old	Property of potential CHVI
3 Carlis Place	Property with buildings or structures 40 or more years old	Property of potential CHVI
4 Carlis Place	Property with buildings or structures 40 or more years old	Property of potential CHVI
5 Carlis Place	Property with buildings or structures 40 or more years old	Property of potential CHVI
6 Carlis Place	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Carlis Place	Property with buildings or structures 40 or more years old	Property of potential CHVI
8 Carlis Place	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Carlis Place	Property with buildings or structures 40 or more years old	Property of potential CHVI
24 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
26 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
27 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
28 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
30 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
31 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
33 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
34 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
35 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
36 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
38 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
40 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
44 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
46 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
48 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
50 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
54 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
55 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
59 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
60 Cumberland Drive	**Two storey dwelling**	**Heritage property listed (not designated) on the City *Heritage Register***
63 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
65 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
68 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
70 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
22 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
24 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
26 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
28 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
38 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
40 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
37 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
41 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
42 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
44 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
45 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
46 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
48 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
55 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
56 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
57 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
59 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
60 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
61 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
63 Oakwood Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
14 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
15 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
16 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
17 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
20 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
22 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
24 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
1 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
3 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
5 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
33 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
35 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
37 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
39 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
47 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
48 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

COMPASS WAY
ST LAWRENCE DRIVE
ELMWOOD AVENUE SOUTH
CARLIS PLACE
OAKWOOD AVENUE SOUTH
WANITA ROAD
ONAWAY ROAD
CUMBERLAND DRIVE
Elmwood SPS
Lake Ontario
(lac Ontario)

LEGEND

- **200** CIVIC ADDRESS
- SPS STATION
- STUDY AREA
- PARCEL BOUNDARY

CULTURAL HERITAGE STATUS

- PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)
- HERITAGE PROPERTY LISTED (NOT DESIGNATED) ON THE CITY HERITAGE REGISTER

KEY MAP

0 50 100
1:1,700 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 10

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	11

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0012_Cultural_Heritage_PortCreditEast\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:47:26 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

4.3.11 Quadrant 11

Table 12 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 11 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 12.

Table 12: Known and potential properties of CHVI identified through desktop analysis in Quadrant 11

Civic Address or Location	Description	Cultural Heritage Status
10 Cayuga Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Cayuga Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
1 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
2 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
5 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
6 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
8 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
13 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
14 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
16 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
17 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
18 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
21 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
22 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
274 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
276 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
277 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
279 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
280 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
281 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
282 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
283 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
284 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
285 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
286 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
287 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
288 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
289 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
291 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
293 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
295 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
297 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
298 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
299 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
301 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
303 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
304 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
307 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
308 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
309 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
312 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
314 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
315 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
316 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
319 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
320 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
321 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
323 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
324 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
325 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
327 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
328 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
329 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
331 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
332 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
333 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
334 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
335 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
339 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
341 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
343 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
345 Lakeshore Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
36 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
38 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
39 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
40 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
42 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
43 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
44 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
45 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
46 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
47 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
48 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
50 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
61 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
62 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
63 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
64 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
65 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
66 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
67 Minnewawa Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Mohawk Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Mohawk Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
10 Mohawk Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Mohawk Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
1 Tecumseth Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
3 Tecumseth Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
7 Tecumseth Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
17 Tecumseth Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Tecumseth Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
23 Tecumseth Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Tecumseth Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
27 Tecumseth Avenue	Property with buildings or structures 40 or more years old	Property of potential CHVI
62 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
64 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
66 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
68 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
70 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
72 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
74 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
76 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
90 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
92 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
94 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
5 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
7 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
9 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
11 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
12 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
13 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
14 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
16 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
18 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
19 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
20 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
21 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI

TECUMSETH AVENUE
MOHAWK AVENUE
CAYUGA AVENUE
SENECA AVENUE
ROOSEVELT ROAD
SHAW DRIVE
ENOLA AVENUE
LAKESHORE ROAD EAST
MINNEWAWA ROAD
HIAWATHA PARKWAY
WENONAH DRIVE
THE GREENWAY
THE THICKET

LEGEND

200 CIVIC ADDRESS

STUDY AREA

PARCEL BOUNDARY

CULTURAL HERITAGE STATUS

PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)

KEY MAP

1:1,700

0 50 100 METRES

REFERENCE(S)

1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 11

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	12

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\19129019_GMBP_SPS_EA\40_PROD\0012_Cultural_Heritage_PortCreditEast\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:47:35 PM

4.3.12 Quadrant 12

Table 13 lists the known and potential properties of cultural heritage value or interest (CHVI) in Quadrant 12 of the study area in alphabetical order by street name. These known and potential properties of CHVI are mapped on Figure 13.

Table 13: Known and potential properties of CHVI identified through desktop analysis in Quadrant 12

Civic Address or Location	Description	Cultural Heritage Status
81 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
82 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
83 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
92 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
93 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
95 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
96 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
101 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
104 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
108 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
109 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
110 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
111 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
112 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
113 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
115 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
119 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
120 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
121 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
122 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
123 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
125 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
127 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
129 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
130 Cumberland Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
850 Enola Avenue	**Adamson Estate: Estate with Flemish gabled mansion, constructed 1920 by architects Sproatt and Rolph.**	**Protected heritage property designated under Part IV of the OHA (By-law 461-78)** **Listed on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* (L-RES-2)**
21 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
22 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
23 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
24 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
26 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
27 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
28 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
29 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
31 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
35 Hiawatha Parkway	Property with buildings or structures 40 or more years old	Property of potential CHVI
39 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
41 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
43 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
45 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
47 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
51 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
61 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
63 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
66 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
67 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
68 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
69 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
70 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
71 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
72 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
73 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
74 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
75 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
76 Onaway Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
63 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
67 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
69 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
71 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
73 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
76 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
87 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
93 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
95 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
97 Wanita Road	Property with buildings or structures 40 or more years old	Property of potential CHVI
21 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI

Civic Address or Location	Description	Cultural Heritage Status
23 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
24 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
25 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
26 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
27 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
28 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
32 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
34 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
35 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
37 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
38 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI
39 Wenonah Drive	Property with buildings or structures 40 or more years old	Property of potential CHVI

LEGEND

- **200** CIVIC ADDRESS
- SPS STATION
- STUDY AREA
- PARCEL BOUNDARY

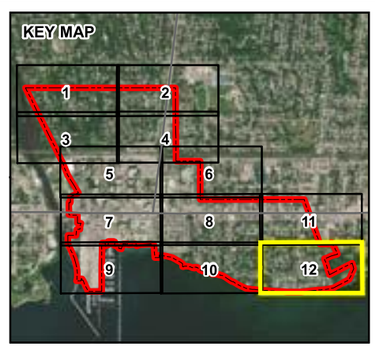
CULTURAL HERITAGE STATUS

- PROPERTY OF POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)
- PROTECTED HERITAGE PROPERTY DESIGNATED (PART IV)

CULTURAL HERITAGE LANDSCAPE

- ADAMSON ESTATE RESIDENTIAL LANDSCAPE

KEY MAP



0 50 100

1:1,700 METRES

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

CONSULTANT
GOLDER

YYYY-MM-DD	2020-12-01
DESIGNED	PR
PREPARED	PR
REVIEWED	HC
APPROVED	HC

REFERENCE(S)
1. BASE DATA - MNRF LIO, OBTAINED 2019. CITY OF MISSISSAUGA, OBTAINED 2020.
2. PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, © QUEENS PRINTER 2019
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
4. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

PROJECT
PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' ENVIRONMENTAL ASSESSMENT

TITLE
KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES IDENTIFIED WITHIN QUADRANT 12

PROJECT NO.	CONTROL	REV.	MAP
19129019	0012	B	13

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0012_Cultural_Heritage_Port\Cmd\East\19129019-0012-HA-0002.mxd PRINTED ON: 2020-12-01 AT: 12:47:43 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

5.0 RECOMMENDATIONS

Due to the high number of known and potential built heritage resources and cultural heritage landscapes in the study area, Golder recommends to:

- site and route all infrastructure to avoid the cultural heritage resources identified in this CHSR.
  - listed (not designated) heritage properties or cultural heritage landscapes (CHL), properties of potential CHVI, and the potential CHL can be avoided by limiting all construction to within public rights-of-way;
  - however, construction adjacent to any of the protected heritage properties designated under Part IV or Part V of the *OHA* will require an impact assessment compliant with the *City of Mississauga Heritage Impact Assessment Terms of Reference* (2014) prior to detailed design to recommend the appropriate mitigations.
- if a listed (not designated) heritage property or cultural heritage landscape (CHL), properties of potential CHVI property, or the potential CHL cannot be feasibly avoided, consult the City of Mississauga to determine if a Cultural Heritage Evaluation Report (CHER) is required.
  - if required, the CHER should determine if the property meets the criteria for CHVI prescribed in *Ontario Regulation 9/06.* If the CHER finds that the resource has CHVI, conduct an HIA prior to detailed design to recommend the appropriate mitigations.
- if a protected heritage property designated under Part IV or Part V of the *OHA* cannot be feasibly avoided (including work on adjacent parcels or rights-of-way), conduct a Heritage Impact Assessment (HIA) that is compliant with the *City of Mississauga Heritage Impact Assessment Terms of Reference* (2014) prior to detailed design to recommend the appropriate mitigations.

If multiple known and potential built heritage resources and cultural heritage landscapes identified in this CHSR cannot be feasibly avoided, Golder recommends to:

- conduct a Cultural Heritage Existing Conditions and Preliminary Impact Assessment (CHECPIA) prior to detailed design. The CHECPIA should:
  - evaluate at a preliminary level the listed (not designated) heritage properties, properties of potential CHVI, and the potential CHL to determine if they meet the criteria for CHVI prescribed in *Ontario Regulation 9/06*
  - identify impacts to the protected heritage properties designated under Part IV or Part V of the *OHA*, listed (not designated) heritage properties or cultural heritage landscapes, and the properties and landscapes evaluated to have CHVI and,
  - recommend the appropriate mitigations to avoid or reduce adverse impacts to all built heritage resources and cultural heritage landscapes.

Signature Page

We trust that this report meets your current needs. If you have any questions, or if we may be of further assistance, please contact the undersigned at henry_cary@golder.com or (506) 540-1494.

Golder Associates Ltd.

Henry Cary, Ph.D., CAHP, RPA
Senior Cultural Heritage Specialist

Michael Teal, MA
Associate, Senior Archaeologist

HC/MT/ly/wlm/mp

Golder and the G logo are trademarks of Golder Associates Corporation

https://golderassociates.sharepoint.com/sites/114195/project files/6 deliverables/draft/cultural heritage screening reports/revised study area/dec 1 submission/19129019-2200 01dec2020 gmbp ptcredit miss wwso chsr.docx

APPENDIX A

MHSTCI Checklist

Clear Form Print Form

Ontario

Ministry of Tourism, Culture and Sport

Programs & Services Branch
401 Bay Street, Suite 1700
Toronto ON M7A 0A7

Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes

A Checklist for the Non-Specialist

The **purpose of the checklist** is to determine:

- if a property(ies) or project area:
  - is a recognized heritage property
  - may be of cultural heritage value
- it includes all areas that may be impacted by project activities, including – but not limited to:
  - the main project area
  - temporary storage
  - staging and working areas
  - temporary roads and detours

Processes covered under this checklist, such as:

- *Planning Act*
- *Environmental Assessment Act*
- *Aggregates Resources Act*
- *Ontario Heritage Act* – Standards and Guidelines for Conservation of Provincial Heritage Properties

Cultural Heritage Evaluation Report (CHER)

If you are not sure how to answer one or more of the questions on the checklist, you may want to hire a qualified person(s) (see page 5 for definitions) to undertake a cultural heritage evaluation report (CHER).

The CHER will help you:

- identify, evaluate and protect cultural heritage resources on your property or project area
- reduce potential delays and risks to a project

Other checklists

Please use a separate checklist for your project, if:

- you are seeking a Renewable Energy Approval under Ontario Regulation 359/09 – separate checklist
- your Parent Class EA document has an approved screening criteria (as referenced in Question 1)

Please refer to the Instructions pages for more detailed information and when completing this form.

 © Queen's Printer for Ontario, 2016

Project or Property Name

Port Credit East Wastewater Servicing Optimization Strategy Schedule 'C' Class Environmental Assessment

Project or Property Location (upper and lower or single tier municipality)

City of Mississauga, Region of Peel, Ontario

Proponent Name

GM BluePlan Engineering Limited

Proponent Contact Information

Chris Campbell, MTP, MCIP, RPP, MRTPI, chris.campbell@gmblueplan.ca

Screening Questions

	Yes	No
1. Is there a pre-approved screening checklist, methodology or process in place?	☐	☑

If Yes, please follow the pre-approved screening checklist, methodology or process.

If No, continue to Question 2.

Part A: Screening for known (or recognized) Cultural Heritage Value

	Yes	No
2. Has the property (or project area) been evaluated before and found **not** to be of cultural heritage value?	☐	☑

If Yes, do **not** complete the rest of the checklist.

The proponent, property owner and/or approval authority will:

- summarize the previous evaluation and
- add this checklist to the project file, with the appropriate documents that demonstrate a cultural heritage evaluation was undertaken

The summary and appropriate documentation may be:

- submitted as part of a report requirement
- maintained by the property owner, proponent or approval authority

If No, continue to Question 3.

	Yes	No
3. Is the property (or project area):		
a. identified, designated or otherwise protected under the *Ontario Heritage Act* as being of cultural heritage value?	☑	☐
b. a National Historic Site (or part of)?	☐	☑
c. designated under the *Heritage Railway Stations Protection Act*?	☐	☑
d. designated under the *Heritage Lighthouse Protection Act*?	☐	☑
e. identified as a Federal Heritage Building by the Federal Heritage Buildings Review Office (FHBRO)?	☐	☑
f. located within a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site?	☐	☑

If Yes to any of the above questions, you need to hire a qualified person(s) to undertake:

- a Cultural Heritage Evaluation Report, if a Statement of Cultural Heritage Value has not previously been prepared or the statement needs to be updated

If a Statement of Cultural Heritage Value has been prepared previously and if alterations or development are proposed, you need to hire a qualified person(s) to undertake:

- a Heritage Impact Assessment (HIA) – the report will assess and avoid, eliminate or mitigate impacts

If No, continue to Question 4.

Part B: Screening for Potential Cultural Heritage Value

	Yes	No
4. Does the property (or project area) contain a parcel of land that:		
a. is the subject of a municipal, provincial or federal commemorative or interpretive plaque?	☐	☑
b. has or is adjacent to a known burial site and/or cemetery?	☑	☐
c. is in a Canadian Heritage River watershed?	☐	☑
d. contains buildings or structures that are 40 or more years old?	☑	☐

Part C: Other Considerations

	Yes	No
5. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area):		
a. is considered a landmark in the local community or contains any structures or sites that are important in defining the character of the area?	☑	☐
b. has a special association with a community, person or historical event?	☑	☐
c. contains or is part of a cultural heritage landscape?	☑	☐

If Yes to one or more of the above questions (Part B and C), there is potential for cultural heritage resources on the property or within the project area.

You need to hire a qualified person(s) to undertake:

- a Cultural Heritage Evaluation Report (CHER)

If the property is determined to be of cultural heritage value and alterations or development is proposed, you need to hire a qualified person(s) to undertake:

- a Heritage Impact Assessment (HIA) – the report will assess and avoid, eliminate or mitigate impacts

If No to all of the above questions, there is low potential for built heritage or cultural heritage landscape on the property.

The proponent, property owner and/or approval authority will:

- summarize the conclusion
- add this checklist with the appropriate documentation to the project file

The summary and appropriate documentation may be:

- submitted as part of a report requirement e.g. under the *Environmental Assessment Act, Planning Act* processes
- maintained by the property owner, proponent or approval authority

Instructions

Please have the following available, when requesting information related to the screening questions below:

- a clear map showing the location and boundary of the property or project area
  - large scale and small scale showing nearby township names for context purposes
- the municipal addresses of all properties within the project area
- the lot(s), concession(s), and parcel number(s) of all properties within a project area

For more information, see the Ministry of Tourism, Culture and Sport's Ontario Heritage Toolkit or Standards and Guidelines for Conservation of Provincial Heritage Properties.

In this context, the following definitions apply:

- **qualified person(s)** means individuals – professional engineers, architects, archaeologists, etc. – having relevant, recent experience in the conservation of cultural heritage resources.
- **proponent** means a person, agency, group or organization that carries out or proposes to carry out an undertaking or is the owner or person having charge, management or control of an undertaking.

1. Is there a pre-approved screening checklist, methodology or process in place?

An existing checklist, methodology or process may already be in place for identifying potential cultural heritage resources, including:

- one endorsed by a municipality
- an environmental assessment process e.g. screening checklist for municipal bridges
- one that is approved by the Ministry of Tourism, Culture and Sport (MTCS) under the Ontario government's Standards & Guidelines for Conservation of Provincial Heritage Properties [s.B.2.]

Part A: Screening for known (or recognized) Cultural Heritage Value

2. Has the property (or project area) been evaluated before and found not to be of cultural heritage value?

Respond 'yes' to this question, if all of the following are true:

A property can be considered not to be of cultural heritage value if:

- a Cultural Heritage Evaluation Report (CHER) - or equivalent - has been prepared for the property with the advice of a qualified person and it has been determined not to be of cultural heritage value and/or
- the municipal heritage committee has evaluated the property for its cultural heritage value or interest and determined that the property is not of cultural heritage value or interest

A property may need to be re-evaluated, if:

- there is evidence that its heritage attributes may have changed
- new information is available
- the existing Statement of Cultural Heritage Value does not provide the information necessary to manage the property
- the evaluation took place after 2005 and did not use the criteria in Regulations 9/06 and 10/06

Note: Ontario government ministries and public bodies [prescribed under Regulation 157/10] may continue to use their existing evaluation processes, until the evaluation process required under section B.2 of the Standards & Guidelines for Conservation of Provincial Heritage Properties has been developed and approved by MTCS.

To determine if your property or project area has been evaluated, contact:

- the approval authority
- the proponent
- the Ministry of Tourism, Culture and Sport

3a. Is the property (or project area) identified, designated or otherwise protected under the *Ontario Heritage Act* as being of cultural heritage value e.g.:

i. designated under the *Ontario Heritage Act*

- individual designation (Part IV)
- part of a heritage conservation district (Part V)

Individual Designation – Part IV

A property that is designated:

- by a municipal by-law as being of cultural heritage value or interest [s.29 of the *Ontario Heritage Act*]
- by order of the Minister of Tourism, Culture and Sport as being of cultural heritage value or interest of provincial significance [s.34.5]. **Note**: To date, no properties have been designated by the Minister.

Heritage Conservation District – Part V

A property or project area that is located within an area designated by a municipal by-law as a heritage conservation district [s. 41 of the *Ontario Heritage Act*].

For more information on Parts IV and V, contact:

- municipal clerk
- Ontario Heritage Trust
- local land registry office (for a title search)

---

ii. subject of an agreement, covenant or easement entered into under Parts II or IV of the *Ontario Heritage Act*

An agreement, covenant or easement is usually between the owner of a property and a conservation body or level of government. It is usually registered on title.

The primary purpose of the agreement is to:

- preserve, conserve, and maintain a cultural heritage resource
- prevent its destruction, demolition or loss

For more information, contact:

- Ontario Heritage Trust - for an agreement, covenant or easement [clause 10 (1) (c) of the *Ontario Heritage Act*]
- municipal clerk – for a property that is the subject of an easement or a covenant [s.37 of the *Ontario Heritage Act*]
- local land registry office (for a title search)

---

iii. listed on a register of heritage properties maintained by the municipality

Municipal registers are the official lists - or record - of cultural heritage properties identified as being important to the community.

Registers include:

- all properties that are designated under the *Ontario Heritage Act* (Part IV or V)
- properties that have not been formally designated, but have been identified as having cultural heritage value or interest to the community

For more information, contact:

- municipal clerk
- municipal heritage planning staff
- municipal heritage committee

---

iv. subject to a notice of:

- intention to designate (under Part IV of the *Ontario Heritage Act*)
- a Heritage Conservation District study area bylaw (under Part V of the *Ontario Heritage Act*)

A property that is subject to a **notice of intention to designate** as a property of cultural heritage value or interest and the notice is in accordance with:

- section 29 of the *Ontario Heritage Act*
- section 34.6 of the *Ontario Heritage Act.* **Note**: To date, the only applicable property is Meldrum Bay Inn, Manitoulin Island. [s.34.6]

An area designated by a municipal by-law made under section 40.1 of the *Ontario Heritage Act* as a **heritage conservation district study area**.

For more information, contact:

- municipal clerk – for a property that is the subject of notice of intention [s. 29 and s. 40.1]
- Ontario Heritage Trust

---

v. included in the Ministry of Tourism, Culture and Sport's list of provincial heritage properties

Provincial heritage properties are properties the Government of Ontario owns or controls that have cultural heritage value or interest.

The Ministry of Tourism, Culture and Sport (MTCS) maintains a list of all provincial heritage properties based on information provided by ministries and prescribed public bodies. As they are identified, MTCS adds properties to the list of provincial heritage properties.

For more information, contact the MTCS Registrar at registrar@ontario.ca.

3b. Is the property (or project area) a National Historic Site (or part of)?

National Historic Sites are properties or districts of national historic significance that are designated by the Federal Minister of the Environment, under the *Canada National Parks Act*, based on the advice of the Historic Sites and Monuments Board of Canada.

For more information, see the National Historic Sites website.

3c. Is the property (or project area) designated under the *Heritage Railway Stations Protection Act*?

The *Heritage Railway Stations Protection Act* protects heritage railway stations that are owned by a railway company under federal jurisdiction. Designated railway stations that pass from federal ownership may continue to have cultural heritage value.

For more information, see the Directory of Designated Heritage Railway Stations.

3d. Is the property (or project area) designated under the *Heritage Lighthouse Protection Act*?

The *Heritage Lighthouse Protection Act* helps preserve historically significant Canadian lighthouses. The Act sets up a public nomination process and includes heritage building conservation standards for lighthouses which are officially designated.

For more information, see the Heritage Lighthouses of Canada website.

3e. Is the property (or project area) identified as a Federal Heritage Building by the Federal Heritage Buildings Review Office?

The role of the Federal Heritage Buildings Review Office (FHBRO) is to help the federal government protect the heritage buildings it owns. The policy applies to all federal government departments that administer real property, but not to federal Crown Corporations.

For more information, contact the Federal Heritage Buildings Review Office.

See a directory of all federal heritage designations.

3f. Is the property (or project area) located within a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site?

A UNESCO World Heritage Site is a place listed by UNESCO as having outstanding universal value to humanity under the Convention Concerning the Protection of the World Cultural and Natural Heritage. In order to retain the status of a World Heritage Site, each site must maintain its character defining features.

Currently, the Rideau Canal is the only World Heritage Site in Ontario.

For more information, see Parks Canada – World Heritage Site website.

Part B: Screening for potential Cultural Heritage Value

4a. Does the property (or project area) contain a parcel of land that has a municipal, provincial or federal commemorative or interpretive plaque?

Heritage resources are often recognized with formal plaques or markers.

Plaques are prepared by:

- municipalities
- provincial ministries or agencies
- federal ministries or agencies
- local non-government or non-profit organizations

For more information, contact:

- municipal heritage committees or local heritage organizations – for information on the location of plaques in their community
- Ontario Historical Society's Heritage directory – for a list of historical societies and heritage organizations
- Ontario Heritage Trust – for a list of plaques commemorating Ontario's history
- Historic Sites and Monuments Board of Canada – for a list of plaques commemorating Canada's history

4b. Does the property (or project area) contain a parcel of land that has or is adjacent to a known burial site and/or cemetery?

For more information on known cemeteries and/or burial sites, see:

- Cemeteries Regulations, Ontario Ministry of Consumer Services – for a database of registered cemeteries
- Ontario Genealogical Society (OGS) – to locate records of Ontario cemeteries, both currently and no longer in existence; cairns, family plots and burial registers
- Canadian County Atlas Digital Project – to locate early cemeteries

In this context, adjacent means contiguous or as otherwise defined in a municipal official plan.

4c. Does the property (or project area) contain a parcel of land that is in a Canadian Heritage River watershed?

The Canadian Heritage River System is a national river conservation program that promotes, protects and enhances the best examples of Canada's river heritage.

Canadian Heritage Rivers must have, and maintain, outstanding natural, cultural and/or recreational values, and a high level of public support.

For more information, contact the Canadian Heritage River System.

If you have questions regarding the boundaries of a watershed, please contact:

- your conservation authority
- municipal staff

4d. Does the property (or project area) contain a parcel of land that contains buildings or structures that are 40 or more years old?

A 40 year 'rule of thumb' is typically used to indicate the potential of a site to be of cultural heritage value. The approximate age of buildings and/or structures may be estimated based on:

- history of the development of the area
- fire insurance maps
- architectural style
- building methods

Property owners may have information on the age of any buildings or structures on their property. The municipality, local land registry office or library may also have background information on the property.

Note: 40+ year old buildings or structure do not necessarily hold cultural heritage value or interest; their age simply indicates a higher potential.

A building or structure can include:

- residential structure
- farm building or outbuilding
- industrial, commercial, or institutional building
- remnant or ruin
- engineering work such as a bridge, canal, dams, etc.

For more information on researching the age of buildings or properties, see the Ontario Heritage Tool Kit Guide Heritage Property Evaluation.

Part C: Other Considerations

5a. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) is considered a landmark in the local community or contains any structures or sites that are important to defining the character of the area?

Local or Aboriginal knowledge may reveal that the project location is situated on a parcel of land that has potential landmarks or defining structures and sites, for instance:

- buildings or landscape features accessible to the public or readily noticeable and widely known
- complexes of buildings
- monuments
- ruins

5b. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) has a special association with a community, person or historical event?

Local or Aboriginal knowledge may reveal that the project location is situated on a parcel of land that has a special association with a community, person or event of historic interest, for instance:

- Aboriginal sacred site
- traditional-use area
- battlefield
- birthplace of an individual of importance to the community

5c. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) contains or is part of a cultural heritage landscape?

Landscapes (which may include a combination of archaeological resources, built heritage resources and landscape elements) may be of cultural heritage value or interest to a community.

For example, an Aboriginal trail, historic road or rail corridor may have been established as a key transportation or trade route and may have been important to the early settlement of an area. Parks, designed gardens or unique landforms such as waterfalls, rock faces, caverns, or mounds are areas that may have connections to a particular event, group or belief.

For more information on Questions 5.a., 5.b. and 5.c., contact:

- Elders in Aboriginal Communities or community researchers who may have information on potential cultural heritage resources. Please note that Aboriginal traditional knowledge may be considered sensitive.
- municipal heritage committees or local heritage organizations
- Ontario Historical Society's "Heritage Directory" - for a list of historical societies and heritage organizations in the province

An internet search may find helpful resources, including:

- historical maps
- historical walking tours
- municipal heritage management plans
- cultural heritage landscape studies
- municipal cultural plans

Information specific to trails may be obtained through Ontario Trails.

APPENDIX B

Supplementary Documentation

Appendix B – Supplementary Screening Documentation

Screening Criteria	Results
PART A	
Has the property (or project area) been evaluated before and found not to be of cultural heritage value?	Individual properties within the study area may have been previously evaluated and determined not to be of cultural heritage value or interest but identifying each previously evaluated property was beyond the scope of this CHSR.
Is the property (or project area):	
identified, designated or otherwise protected under the *Ontario Heritage Act* as being of cultural heritage value?	Search of the City of Mississauga *Heritage Register,* identified: ▪ 8 designated properties under Part IV of the *Ontario Heritage Act* ▪ 1 protected heritage property designated under Part V of the *Ontario Heritage Act* ▪ 67 properties listed (not designated) on the City of Mississauga's *Heritage Register* under Section 27 of the *Ontario Heritage Act* ▪ 4 cultural heritage landscapes listed (not designated) on the City of Mississauga's *Inventory of Cultural Heritage Landscapes* under Section 27 of the *Ontario Heritage Act*
a National Historic Site (or part of)?	Search of the *Parks Canada Directory of Federal Heritage Designations* determined that no part of the study area is, or part, of a National Historic Site.
designated under the *Heritage Railways Stations Protection Act*?	Search of the *Parks Canada Directory of Federal Heritage Designations* determined that no part of the study area is designated under the *Heritage Railways Stations Protection Act.*
designated under the Heritage Lighthouse Protection Act?	No part of the study area is designated under the *Heritage Lighthouse Protection Act*.
identified as a Federal Heritage Building by the Federal Heritage Buildings Review Office (FHBRO)?	Search of the *Parks Canada Directory of Federal Heritage Designations* determined that no buildings in the study area is identified by FHBRO.

Screening Criteria	Results
located within a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site?	No part of the study area is located within a UNESCO World Heritage Site.
PART B	
Does the property (or project area) contain a parcel of land that:	
is the subject of a municipal, provincial or federal commemorative or interpretive plaque?	Search of the *Ontario Heritage Foundation Online Plaque Guide* and *Ontario's Historical Plaques* determined that there are no plaques within the study area.
has or is adjacent to a known burial and/or cemetery?	Desktop research identified: ▪ Trinity Anglican Church Cemetery, 26 Stavebank Road North
is in a Canadian Heritage River watershed?	Search of the Canadian Heritage River System online list determined the study area is not located within the watershed of a Canadian Heritage River.
contains buildings or structures that are 40 or more years old?	The study area was found to have 648 properties with buildings or structures that are 40 more years old through consultation with the City and review of the: ▪ *Ontario Historical County Maps Project Web Map Application* – Peel County ▪ 1962 and 1974 1:25,000 national topographic system (NTS) maps (Port Credit, Ontario Map Sheet 030M12A and 030M11D) available through the online *Historical Topographic Map Digitization Project* ▪ Pre-1980 aerial imagery accessed through the City of Mississauga *Interactive Online Mapping Service* ▪ Google aerial and Street View imagery
PART C	
Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area):	
is considered a landmark in the local community or contains any structures or sites that are important in defining the character of the area?	Municipal consultation and review of municipal heritage databases determined that the study area contains numerous landmarks or structures important in defining the character of the area.

Screening Criteria	Results
has a special association with a community, person or historical event?	Municipal consultation and review of municipal heritage databases determined that numerous built heritage resources and cultural heritage landscapes within the study area have special association with a community, person, or historical event.
contains or is part of a cultural heritage landscape?	Municipal consultation and review of municipal heritage databases determined that the study area includes portions of the: ▪ Mineola Neighbourhood Cultural Heritage Landscape (listed on the City *Inventory of Cultural Heritage Landscapes*) ▪ Old Port Credit Village Heritage Conservation District (designated, Part V of the *OHA*) ▪ Old Port Credit Cultural Heritage Landscape (listed on the City *Inventory of Cultural Heritage Landscapes*) ▪ Port Credit Harbour Cultural Heritage Landscape (listed on the City *Inventory of Cultural Heritage Landscapes*) ▪ Adamson Estate Cultural Heritage Landscape (listed on the City *Inventory of Cultural Heritage Landscapes*) ▪ potential cultural heritage landscape of the former Hamilton and Toronto Railway line.

golder.com

REPORT

CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT

PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY SCHEDULE 'C' MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

Submitted to:

GM BLUEPLAN ENGINEERING LIMITED

3300 Highway 7, Suite 402
Vaughan, Ontario L4K 4M3
Attn: Chris Campbell

Submitted by:

WSP Canada Inc.
6925 CENTURY AVENUE, #100 MISSISSAUGA, ON L5N 7K2 Canada

+1 905-567-4444

221-09206-00

August 31, 2023

Distribution List

PDF - GM BLUEPLAN ENGINEERING LIMITED

PDF - WSP CANADA INC.

Disclamiers

WSP Canada Inc. (“WSP”) prepared this report solely for the use of the intended recipient, GM BluePlan Engineering Limited, in accordance with the professional services agreement between the parties. In the event a contract has not been executed, the parties agree that the WSP General Terms for Consultant shall govern their business relationship which was provided to you prior to the preparation of this report.

The report is intended to be used in its entirety. No excerpts may be taken to be representative of the findings in the assessment.

The conclusions presented in this report are based on work performed by trained, professional and technical staff, in accordance with their reasonable interpretation of current and accepted engineering and scientific practices at the time the work was performed.

The content and opinions contained in the present report are based on the observations and/or information available to WSP at the time of preparation, using investigation techniques and engineering analysis methods consistent with those ordinarily exercised by WSP and other engineering/scientific practitioners working under similar conditions, and subject to the same time, financial and physical constraints applicable to this project.

WSP disclaims any obligation to update this report if, after the date of this report, any conditions appear to differ significantly from those presented in this report; however, WSP reserves the right to amend or supplement this report based on additional information, documentation or evidence.

WSP makes no other representations whatsoever concerning the legal significance of its findings.

The intended recipient is solely responsible for the disclosure of any information contained in this report. If a third party makes use of, relies on, or makes decisions in accordance with this report, said third party is solely responsible for such use, reliance or decisions. WSP does not accept responsibility for damages, if any, suffered by any third party as a result of decisions made or actions taken by said third party based on this report.

WSP has provided services to the intended recipient in accordance with the professional services agreement between the parties and in a manner consistent with that degree of care, skill and diligence normally provided by members of the same profession performing the same or comparable services in respect of projects of a similar nature in similar circumstances. It is understood and agreed by WSP and the recipient of this report that WSP provides no warranty, express or implied, of any kind. Without limiting the generality of the foregoing, it is agreed and understood by WSP and the recipient of this report that WSP makes no representation or warranty whatsoever as to the sufficiency of its scope of work for the purpose sought by the recipient of this report.

In preparing this report, WSP has relied in good faith on information provided by others, as noted in the report. WSP has reasonably assumed that the information provided is correct and WSP is not responsible for the accuracy or completeness of such information.

Benchmark and elevations used in this report are primarily to establish relative elevation differences between the specific testing and/or sampling locations and should not be used for other purposes, such as grading, excavating, construction, planning, development, etc.

The original of this digital file will be kept by WSP for a period of not less than 10 years. As the digital file transmitted to the intended recipient is no longer under the control of WSP, its integrity cannot be assured. As such, WSP does not guarantee any modifications made to this digital file subsequent to its transmission to the intended recipient.

This limitations statement is considered an integral part of this report.

Executive Summary

WSP Canada Inc. (WSP) has been retained by GM BluePlan Engineering Limited on behalf of the Region of Peel to undertake a Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment (Cultural Heritage Report) as a part of the Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule 'C' Municipal Class Environmental Assessment, in Mississauga, Ontario.

The Study Area is situated within Parts of Lots 1, 2, 3 and 4 Concession 2 South of Dundas Street, Part of Lots 1, 2, 3 and 4 Concession 3 South of Dundas Street in the Township of Toronto, County of Peel, now the City of Mississauga (Figure 1). The Study Area is generally limited by Front Street in the south, Veronica Drive and just east of Forest Avenue in the west, Seneca Avenue in the north, and Lake Ontario in the east in the City of Mississauga.

This Cultural Heritage Report identifies existing and potential Built Heritage Resources (BHRs) and Cultural Heritage Landscapes (CHLs) within the Study Area. Further, the report includes a review of the background history of the Study Area, the results of a property visit undertaken to confirm existing conditions, a preliminary impact assessment to identify negative impacts to BHRs and CHLs, preliminary mitigation recommendations, and determination of whether a Cultural Heritage Evaluation Report (CHER) or Heritage Impact Assessment (HIA) is required for all or parts of the Study Area to be impacted.

The cultural heritage identification and evaluation documented in this Cultural Heritage Report follows the process set out in the Draft Existing Conditions and Preliminary Impact Assessment Report Guidelines provided by the Ministry of Citizenship and Multiculturalism (MCM, 2019). In addition, best practice in heritage identification and assessment has been used, as outlined in the Standards and Guidelines for the Conservation of Provincial Heritage Properties (MCM, 2010), Identification and Evaluation Process (2014) and the Ontario Heritage Toolkit (2006a).

This Cultural Heritage Report was prepared by Joel Konrad, PhD, CAHP, Cultural Heritage Lead, Ontario and Claire Forward BA (Hons.), MA, MSc, Cultural Heritage Specialist. A property visit was conducted on March 15, 2023, which confirmed that there are three (**3**) cultural heritage landscapes (CHLs), (**1**) Heritage Conservation District (HCD), and (**25**) built heritage resources (BHRs) with known or potential cultural heritage value or interest (CHVI) within the Study Area.

Based on the results of the background data collection and assessment of impacts of the Study Area and proposed works, the following recommendations were developed:

1) Staging and construction activities should be appropriately located and/or planned to avoid impacts to the identified BHRs, CHLs, and the HCD.

2) Vibration impacts are anticipated for twenty-three (23) heritage resources: BHR 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25. During adjacent construction or excavation, vibration impacts will be monitored, and work will stop immediately if vibration thresholds are exceeded.

3) No anticipated direct or indirect impacts were identified for three (3) heritage resources: BHR 1 and 2, and CHL 3. No further heritage reporting is required for these resources at this time.

4) Heritage Impact Assessments (HIAs) are recommended for three (3) heritage resources: CHL 1 and 2, and HCD 1. These resources are designated and will experience impacts to their properties as a result of the Project's undertaking. As such, HIAs are recommended to understand and identify the impacts to the cultural heritage attributes, and to recommend appropriate mitigative measures to reduce or remove the impact to the resources.

5) Should future work require expansion of the Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule 'C' Municipal Class EA Study Area, a qualified heritage consultant should be contacted to confirm the impacts of the proposed work on known or potential BHRs, CHLs, and HCD.

Project Personnel

CLIENT

Project Manager	Chris Campbell, MTP, MCIP, RPP, MRTPI *GM BluePlan Engineering Limited*

WSP

Project Manager	Kalena Lair *Environmental Assessment Specialist*
Report Production	Claire Forward, BA (Hons.), MA, MSc *Cultural Heritage Specialist*
Mapping/GIS	Miranda Gilliland *GIS Analyst*
Report Review	Joel Konrad, PhD, CAHP *Cultural Heritage Lead, Ontario* Heidy Schopf, MES, CAHP *Cultural Heritage Team Lead* Michael Teal *Director, Archaeology and Heritage*
Administrative Assistance	Courtney Adey

Table of Contents

1.0 INTRODUCTION 1

1.1 Study Purpose and Objectives 1

1.2 Project Description and Study Area 2

2.0 LEGISLATIVE FRAMEWORK 3

2.1 United Nations Declaration on the Rights of Indigenous Peoples 3

2.2 Provincial Policy Statement 4

2.3 Ontario Heritage Act 4

2.3.1 Ontario Regulation 9/06 5

2.4 Region of Peel's Official Plan 6

2.5 City of Mississauga's Official Plan 6

2.5.1 Port Credit Local Area Plan 7

2.5.2 Port Credit Village Heritage Conservation District Plan 7

3.0 METHODOLOGY 10

3.1 Consultation 10

3.2 Field Assessment 10

3.3 Identification of Cultural Heritage Value or Interest 11

3.4 Agency Data Requests 11

4.0 HISTORICAL CONTEXT 13

4.1 Historical Context Overview 13

4.1.1 Pre-Contact Period 13

4.1.2 Post-Contact Period 18

4.1.3 HISTORICAL MAPPING REVIEW 20

5.0 EXISTING CONDITIONS 22

5.1 Site Visit 22

5.2 Description of Existing Conditions 22

5.2.1 Stavebank Road 22

5.2.2 Rosemere Road 23
5.2.3 Mona Road 23
5.2.4 Sandham Road 24
5.2.5 Vesta Drive 24
5.2.6 Lakeshore Road East 25
5.2.7 Hiawatha Parkway 26
5.2.8 Wanita Road 27
5.2.9 Cumberland Drive 28
5.2.10 Rosewood Avenue 28
5.2.11 Elmwood Avenue North 29
5.2.12 Elmwood Avenue South 29
5.2.13 Carlis Place 30
5.2.14 St. Lawrence Drive 30
5.2.15 Front Street North 31
5.3 Previous Cultural Heritage Assessments 32
5.4 Identified Cultural Heritage Resources 33
6.0 PRELIMINARY IMPACT ASSESSMENT 50
6.1 Preliminary Impacts on Cultural Heritage Resources 50
7.0 CONCLUSIONS 57
8.0 RECOMMENDATIONS 58

TABLES

Table 3-1: Agency Data Requests 12
Table 5-1: Identified BHRs and CHLs with Known or Potential CHVI 34
Table 6-1: Impacts and Preliminary Mitigation Strategies for BHRs and CHLs 51

APPENDICES

APPENDIX A
Figure 1 - 10

1.0 INTRODUCTION

1.1 Study Purpose and Objectives

On behalf of the Region of Peel (the Region), GM BluePlan Engineering Limited (GMBP) retained WSP to undertake a Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment (Cultural Heritage Report) as a part of the Port Credit East Water and Wastewater Servicing Optimization Strategy Municipal Schedule 'C' Municipal Class Environmental Assessment, in Mississauga, Ontario.

In September 2022, WSP/Golder Associates (WSP Golder) had been retained by GMBP on behalf of the Region to produce an addendum for the November 2020 Cultural Heritage Screen Report (Golder, 2020) and subsequent May 2020 Technical Memorandums for the Elmwood and Hiawatha study areas (Golder, 2020), based on an updated overall Study Area for the Schedule 'C' Municipal Class Environmental Assessment for the Port Credit East Water and Wastewater Servicing Optimization Strategy (the Project) in the City of Mississauga, Region of Peel, Ontario.

The November 2020 addendum considered a larger study area that was established before any detail design decision was made. This Cultural Heritage Report will only cover the areas identified in the detail design that will have the most impact (the Study Area): the Hiawatha SPS, Elmwood SPS, Rosemere SPS, and Front Street SPS.

The Study Area is situated within Parts of Lots 1, 2, 3 and 4 Concession 2 South of Dundas Street, Part of Lots 1, 2, 3 and 4 Concession 3 South of Dundas Street in the Township of Toronto, County of Peel, now the City of Mississauga (Figure 1).

This Cultural Heritage Report was undertaken to identify municipally, provincially, and federally recognized heritage properties as well as potential heritage properties within the Study Area and assess the impacts that the Project may have on cultural heritage resources.

A Cultural Heritage Report is required for the MCEA process to: identify existing and potential built heritage resources (BHR) and cultural heritage landscapes (CHL); review the background history of the Study Area; complete a site visit to confirm existing conditions; provide a preliminary impact assessment to conserve BHRs and CHLs; identify mitigation and/or monitoring for potential impacts; and determine whether additional heritage reporting is required.

To meet these objectives, the report will:

- Introduce the study including the purpose and methodology used to undertake the work.
- Review background studies to complete a summary history of the Study Area using local histories, historical mapping and aerial photographs. This work will trace the evolution of the Study Area and aid in the identification of existing and potential BHRs and CHLs.
- Obtain information regarding the City of Mississauga's heritage recognitions and identification of listed and/or designated heritage properties within the Study Area.
- Confirm the presence of previously recognized built heritage resources and cultural heritage landscapes. This process will aid in the identification of built heritage resources and cultural heritage landscapes that may be impacted by the undertaking. This task will include a review of municipal, provincial, and federal heritage registers and inventories, including the City of Mississauga's Heritage Register.

This work will be conducted in accordance with the *Ontario Heritage Act* (OHA, 2005), the *Provincial Policy Statement* (2020), and the *Town of Caledon's Official Plan* (2018).

1.2 Project Description and Study Area

The existing sanitary pumping stations (Rosemere, Elmwood, and Hiawatha) and some of the sanitary sewer mains and watermains in the general Port Credit East area are experiencing operational challenges. In order to develop an integrated and optimized servicing strategy to meet existing and future growth, the Region has initiated a Schedule 'C' Municipal Class Environmental Assessment (EA) for this infrastructure.

After a comprehensive evaluation process, the preliminary preferred option was selected for each of the following project components:

- New Lakeshore Road Deep Trunk Sewer: Tunnel from Marina Park east to the municipal parking lot at Elmwood Avenue North and Lakeshore Road. Temporary parking lot proposed at Harold E. Kennedy Park during construction.
- New Lakeshore Road Sub-Transmission Watermain: Shared shafts and construction compounds from Marina Park to parking lot corner of Elmwood Avenue North and Lakeshore Road.
- Rosemere Sewage Pumping Station: New Rosemere SPS and twin forcemains East to Vesta Drive along Sandham Road.
- Elmwood and Hiawatha Sewage Pumping Stations: Decommission both SPS's and connect to Lakeshore Road Trunk Sewer.

The Study Area is generally limited by Front Street in the south, Veronica Drive and just east of Forest Avenue in the west, Seneca Avenue in the north, and Lake Ontario in the east in the City of Mississauga (Figure 1).

2.0 LEGISLATIVE FRAMEWORK

This report reviews BHRs and CHLs within the Study Area to ensure that the Project takes into consideration these resources. This section outlines the various legislative frameworks and policies relevant to the report.

2.1 United Nations Declaration on the Rights of Indigenous Peoples

On June 21st, 2021, the Canadian federal government enacted United Nations Declaration on the Rights of Indigenous Peoples Act and confirmed that the United Nations Declaration on the Rights of Indigenous Peoples (Declaration - 2007) "must be implemented in Canada." As a result, Indigenous peoples in Canada are recognized as having unique rights, including those that pertain to the conservation of Indigenous heritage. As per Articles 11 and 31 of the Declaration:

> 11. 1) Indigenous peoples have the right to practice and revitalize their cultural traditions and customs. This includes the right to maintain, protect and develop the past, present and future manifestations of their cultures, such as archaeological and historical sites, artefacts, designs, ceremonies, technologies and visual and performing arts and literature.
>
> 31. 1) Indigenous peoples have the right to maintain, control, protect and develop their cultural heritage, traditional knowledge and traditional cultural expressions, as well as the manifestations of their sciences, technologies and cultures, including human and genetic resources, seeds, medicines, knowledge of the properties of fauna and flora, oral traditions, literatures, designs, sports and traditional games and visual and performing arts. They also have the right to maintain, control, protect and develop their intellectual property over such cultural heritage, traditional knowledge, and traditional cultural expressions.
>
> 2) In conjunction with Indigenous peoples, States shall take effective measures to recognize and protect the exercise of these rights.

These rights to historical sites, ceremonies, cultural traditions, etc. (collectively understood as Indigenous heritage) are pertinent to the Environmental Assessment process through Articles 25 and 26 of the Declaration, which state that:

> 25. Indigenous peoples have the right to maintain and strengthen their distinctive spiritual relationship with their traditionally owned or otherwise occupied and used lands, territories, waters and coastal seas and other resources and to uphold their responsibilities to future generations in this regard.
>
> 26. 1) Indigenous peoples have the right to the lands, territories and resources which they have traditionally owned, occupied or otherwise used or acquired.
>
> 2) Indigenous peoples have the right to own, use, develop and control the lands, territories and resources that they possess by reason of traditional ownership or other traditional occupation or use, as well as those which they have otherwise acquired.
>
> 3) States shall give legal recognition and protection to these lands, territories and resources. Such recognition shall be conducted with due respect to the customs, traditions, and land tenure systems of the Indigenous peoples concerned.

2.2 Provincial Policy Statement

The *Provincial Policy Statement* (PPS) (2020) outlines provincial "policy direction on matters of provincial interest related to land use planning and development" (Part I: Preamble PPS 2020). The intent is to provide for appropriate development that protects resources of public interest, public health and safety and the quality of the natural and built environment. The PPS 2020 identifies the conservation of significant built heritage resources and cultural heritage landscapes as a provincial interest in Section 2.6.1.

Relevant definitions from the PPS 2020 include:

Built Heritage Resources (BHR): means a building, structure, monument, installation or any manufactured or constructed part or remnant that contributes to a property's cultural heritage value or interest as identified by a community, including an Indigenous community. *Built heritage resources* are located on property that may be designated under Parts IV or V of the OHA, or that may be included on local, provincial, federal and/or international registers.

Cultural Heritage Landscapes (CHL): means a defined geographical area that may have been modified by human activity and is identified as having cultural heritage value or interest by a community, including an Indigenous community. The area may include features such as buildings, structures, spaces, views, archaeological sites or natural elements that are valued together for their interrelationship, meaning or association. *Cultural heritage landscapes* may be properties that have been determined to have cultural heritage value or interest under the OHA, or have been included on federal and/or international registers, and/or protected through official plan, zoning by-law, or other land use planning mechanisms.

Conserved: means the identification, protection, management and use of *built heritage resources*, *cultural heritage landscapes* and *archaeological resources* in a manner that ensures their cultural heritage value or interest is retained. This may be achieved by the implementation of recommendations set out in a conservation plan, archaeological assessment, and/or heritage impact assessment that has been approved, accepted or adopted by the relevant planning authority and/or decision-maker. Mitigative measures and/or alternative development approaches can be included in these plans and assessments.

2.3 Ontario Heritage Act

The OHA (2005) gives municipalities and the provincial government powers to preserve the heritage of Ontario, with a primary focus on protecting heritage properties and archaeological sites. The OHA grants the authority to municipalities and to the province to identify and designate properties of heritage significance, provide standards and guidelines for the preservation of heritage properties and enhance protection of heritage conservation districts, marine heritage sites and archaeological resources.

Designation ensures the conservation of important places and can take the form of individual designations (Part IV of the OHA) or as part of a larger group of properties, known as a Heritage Conservation District (Part V of the OHA). An evaluation using the criteria outlined in Ontario Regulation (O. Reg) 9/06 is used to determine whether a property possesses cultural heritage value or interest and may be worthy of designation under the OHA. Designation offers protection for properties under Sections 33, 34 and 42 of the OHA, prohibiting the owner of a designated property from altering, demolishing or removing a building or structure on the property unless the owner applies to the council of the municipality and receives written consent to proceed with the alteration, demolition or removal.

In addition to designated properties, the OHA allows municipalities to list properties that are considered to have cultural heritage value or interest on their Municipal Heritage Register. Under Part IV, Section 27 of the OHA, municipalities must maintain a Register of properties situated in the municipality that are of cultural heritage value or interest. Section 27 (1.1) states that the register shall be kept by the clerk and that it must list all designated properties (Part IV and V). Under Section 27 (1.2), the Register may include property that has not been designated, but that council believes to be of cultural heritage value or interest. Listed properties, although recognized as having cultural heritage value or interest, are not protected under the OHA to the same extent as designated properties, but are acknowledged under Section 2 of the PPS 2020 under the *Planning Act*. An owner of a listed heritage property must provide the municipality with 60 days' notice of their intention to demolish a building or structure on the property.

The OHA also allows for the designation of provincial heritage properties (PHP). Part III.1 of the OHA enables the preparation of standards and guidelines that set out the criteria and process for identifying the cultural heritage value or interest of PHPs (Part II of the OHA) and cultural heritage value or interest of provincial heritage properties of provincial significance (PHPPS) (Ontario Regulation (O. Reg.) 10/06 of the OHA) and to set standards for their protection, maintenance, use, and disposal.

2.3.1 Ontario Regulation 9/06

The criteria for deterimining cultural heritage value or interest is defined in O. Reg. 9/06. This regulation was created to ensure a consistent approach to the designation of heritage properties under the OHA. All designations under the OHA made after 2006 must meet the criteria outlined in the regulation.

A property may be designated under Section 29 of the OHA if it meets one or more of the following criteria for determining whether it is of cultural heritage value or interest:

1) The property has design value or physical value because it,

i) is a rare, unique, representative or early example of a style, type, expression, material or construction method,

ii) displays a high degree of craftsmanship or artistic merit, or

iii) demonstrates a high degree of technical or scientific achievement.

6) The property has historical value or associative value because it,

i) has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community,

ii) yields, or has the potential to yield, information that contributes to an understanding of a community or culture, or

iii) demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community.

7) The property has contextual value because it,

i) is important in defining, maintaining or supporting the character of an area,

ii) is physically, functionally, visually or historically linked to its surroundings, or,

iii) is a landmark.

2.4 Region of Peel's Official Plan

The Region of Peel's Official Plan (2022) is currently awaiting Provincial approval. The 1996 Region of Peel Official Plan as amended (2021) consists of policies for the sustainable development of the Region (Caledon, Brampton, and Mississauga).

Section 3.6, Cultural Heritage, addresses cultural heritage features, structures, archaeological resources, and cultural heritage landscapes in Peel according to the criteria and guidelines established by the Province. Relevant policies include:

3.6.2.5 Direct the area municipalities to require, in their official plans, that the proponents of development proposals affecting heritage resources provide for sufficient documentation to meet Provincial requirements and address the Region's objectives with respect to cultural heritage resources.

3.6.2.6 Encourage and support the area municipalities in preparing, as part of any area municipal official plan, an inventory of cultural heritage resources and provision of guidelines for identification, evaluation and impact mitigation activities.

2.5 City of Mississauga's Official Plan

The Mississauga Official Plan was approved by the Region of Peel on October 5, 2011 and was consolidated on October 21, 2021. Section 7.4 of the Mississauga Official Plan provides policies specific to heritage planning.

Relevant policies include:

7.4.1.2 Mississauga will discourage the demolition, destruction or inappropriate alteration or reuse of cultural heritage resources.

7.4.1.3 Mississauga will require development to maintain locations and settings for cultural heritage resources that are compatible with and enhance the character of the cultural heritage resource.

7.4.1.11 Cultural heritage resources designated under the Ontario Heritage Act, will be required to preserve the heritage attributes and not detract or destroy any of the heritage attributes in keeping with the Ontario Heritage Tool Kit, the Ontario Ministry of Culture, and the Standards and Guidelines for the Conservation of Historic Places in Canada, Parks Canada.

7.4.1.12 The proponent of any construction, development, or property alteration that might adversely affect a listed or designated cultural heritage resource or which is proposed adjacent to a cultural heritage resource will be required to submit a Heritage Impact Assessment, prepared to the satisfaction of the City and other appropriate authorities having jurisdiction.

7.4.1.14 Cultural heritage resources will be integrated with development proposals.

7.4.1.17 Public works will be undertaken in a way that minimizes detrimental impacts on cultural heritage resources.

7.4.2.3 Development adjacent to a cultural heritage property will be encouraged to be compatible with the cultural heritage property.

2.5.1 Port Credit Local Area Plan

The Study Area is partly located within the Port Credit Local Plan Area. The plan covers an array of topics including: historical context, current context, collaboration, vision, direct growth, valuing the environment, completing communities, multi-modal city, desirable urban form, and strong economy. The plan concludes with an Appendix for the Port Credit Built Form Guide.

In Section 8.2, the plan describes the cultural heritage and features of the area including the Old Port Credit Village Heritage Conservation District. Other relevant policies include:

10.3.2.1 Any additions, alterations, adaptive reuse or redevelopment [to the Old Port Credit Village Heritage Conservation District Precinct] will address how the development:

- Displays massing and scale sympathetic to surroundings;
- Preserves the historic housing stock;
- Supports the existing historical character;
- Maintains the existing street grid pattern and building setbacks; and
- Maintains and enhances significant groupings of trees and mature vegetation

In Appendix 1, the Port Credit Built Form Guide, built form guidelines for cultural heritage resources are described in Section 3.4:

> There are a number of heritage resources in the Port Credit Neighbourhoods. Designated properties are to be retained. The retention and enhancement of heritage listed properties is strongly encouraged.
>
> New development proposed in proximity to these buildings should be developed in a manner that is sensitive and complimentary to the character of the structure.
>
> New developments should provide the appropriate transition to properties listed on the heritage register and in the Historic Village of Port Credit Precinct.

2.5.2 Port Credit Village Heritage Conservation District Plan

In 1986, the City of Mississauga approved the Port Credit District Plan (not a Heritage Conservation District). In 1988, the City of Mississauga identified the Old Port Credit village south of Lakeshore Road West by by-law as an area to be examined for a possible future designation.

In 1997, the Port Credit District policies in the official plan came into effect. These policies referred to the “character area” of the Historical Port Credit area, and delineated the same area identified in 1988. These policies reiterated the City’s intention to examine the area for a possible designation under Part V of the *Ontario Heritage Act*.

A Heritage Conservation Feasibility Study of Old Port Credit Village was completed in 2003 which recommended the preparation of a Heritage Conservation District (HCD) plan. The current HCD plan was approved by the Ontario Municipal Board in 2004 and was amended in 2018. The HCD’s heritage attributes are:

a) Property boundaries conform to the government's planned village survey dated 1835;

b) Human use and activity predate the government's village survey by many thousands of years;

c) Urban form is defined by the original grid of streets, by the Credit River and by J.C. Saddington Park;

d) The urban fabric is primarily comprised of a low-rise built form with modest building footprints relative to lot size;

e) A number of institutional landmarks important to Port Credit's history remain;

f) A number of historic buildings, built as houses and converted to commercial use or built with a public function in mind, but now used as houses remain;

g) Other houses of historic interest are modest vernacular dwellings;

h) Front yards consist of maintained landscaping of lawns and ornamental gardens with a variety of deciduous and coniferous specimen trees. Parking is generally provided in a single car width driveway often leading to a rear yard garage.

i) Views of Credit River and Lake Ontario from Lakeshore Road West and from within the District;

j) Views from Lake Ontario and the mouth of the Credit River harbour north to Lakeshore Road West, including both sides of the harbour.

Not only do the policies in the HCD plan apply to private property owners, but to publicly owned land, including the City's public works projects in parks and on streets.

General policies of this plan intend to conserve the HCD's heritage character and attributes and primarily apply to alterations of buildings or landscape in the district. Policies relevant to this project in public lands are:

12.1.1 City will maintain the existing street grid, and will consider the feasibility of incorporating the historical pattern of wide grass boulevards with random street tree planting in any plan for streetscape improvement.

12.1.2 The City will consider the following streetscaping measures to better reflect the previously-existing landscape features:

a) Narrowing of the streets with landscaped 'bump-outs' and defined areas for on-street parking subject to the City's Traffic Calming Policy.

12.1.3 The City will protect trees in the public right-of-way.

12.2.1 Street trees and boulevards

a) The municipality is responsible for the public works within the road right-of-way and for the open space parkland. The planting and maintenance of the trees make a significant contribution to the heritage landscape character of the District.

b) The majority of trees are mature, wide-canopy deciduous trees – primarily silver maple, red oak, sugar maple, horse chestnut, catalpa, ash and mountain ash. These species have green foliage in the

summer and colourful reds, yellows and golds in the fall. Many of the trees are located adjacent to the sidewalk at the property line.

c) Existing trees should be monitored on a regular basis to ensure that they remain healthy. Pruning of dieback, fertilization and pesticide treatments should be undertaken as required to preserve the existing trees.

d) As trees mature and replanting is required, the selection of the species should re-establish the form and character of the existing streetscape. Where possible, the new trees should be large-canopied, green foliage deciduous trees.

e) Undertakings such as road improvements and infrastructure upgrades should be assessed prior to the start of construction to determine if they will negatively affect the existing trees. It may not be possible to incorporate underground electrical services until such time that street trees are being replaced, due to the possibility of damage to trees and root systems.

f) The feasibility of adding a grass boulevard and planting appropriate large-canopy trees, randomly spaced, should be investigated as part of future infrastructure and streetscape improvement initiatives.

Section 17.5 b) identifies that installation and/or repair of underground utilities or services including sewage, does not require a permit under Section 42 of the *Ontario Heritage Act*.

3.0 METHODOLOGY

3.1 Consultation

BHRs and CHLs already recognized by the municipality, the Ontario Heritage Trust (OHT), provincially and federally were identified by reviewing the following:

- The inventory of OHT easements;
- The OHT's Ontario Heritage Plaque Guide, an online, searchable database of Ontario Heritage Plaques;
- Ontario's Historical Plaques website;
- The Ontario Genealogical Society's Ontario Cemetery Index
- Parks Canada's Historic Places website, an online, searchable register that provides information on historic places recognized at the local, provincial/territorial and national levels;
- Parks Canada's Directory of Federal Heritage Designations, a searchable on-line database that identifies National Historic Sites, National Historic Events, National Historic People, Heritage Railway Stations, Federal Heritage Buildings and Heritage Lighthouses;
- Canadian Heritage River System, a national river conservation program that promotes, protects and enhances the best examples of Canada's river heritage; and,
- UNESCO World Heritage Sites.

In addition, the mapping tool on the Town of Caledon's website was consulted to review the properties included on their Heritage Register in the Study Area.

For the purposes of this study, any property previously identified by a municipality, municipal staff, provincial or federal agencies as containing, or having the potential to contain, cultural heritage value or interest (CHVI) will be determined to be a BHR or CHL, and if applicable, will be discussed in Section 5.4.

3.2 Field Assessment

Field assessment for this report included a survey of the cultural heritage Study Area from the publicly accessible right-of-way to confirm or identify existing and/or potential BHRs and CHLs. Where identified, potential resources were photographed and mapped, and physical characteristics visible from the right-of-way or aerial imagery were described.

The use of a 40-year-old threshold is a guiding principle when conducting a preliminary identification of cultural heritage resources (MCM, 2016). While identification of a resource that is 40 years old or older does not confer outright heritage significance, this threshold provides a means to collect information about resources that may retain heritage value.

Similarly, if a resource is younger than 40 years old it does not preclude this resource from having CHVI, however it does provide a systematic means of identifying properties that have a higher likelihood of retaining cultural heritage value.

This report includes background research that summarizes the history of the Study Area. In addition to textual sources, historical mapping and aerial photography was consulted to identify the presence of structures/building, settlement patterns and other previously recognized BHRs and CHLs.

3.3 Identification of Cultural Heritage Value or Interest

Properties identified during field review were screened by employing an application of the 40-year threshold used to identify potential BHRs and/or CHLs, followed by a high-level and cursory assessment based on a theoretical understanding of the criteria outlined in O. Reg. 9/06 for determining CHVI (see Section 2.3.1 for full criteria). The criteria in O. Reg. 9/06 were established to identify properties with sufficient CHVI to warrant designation under the OHA. It is considered best practice when identifying potential BHRs and CHLs to employ O. Reg. 9/06 as it provides a general framework for understanding and interpreting heritage value. It should be noted, however, that the application of this framework is used as a theoretical underpinning, not as a strict measurement applied, to a greater or lesser degree, to each property under study. This report does not provide a comprehensive evaluation of a property according to O. Reg. 9/06 and does not satisfy the requirement for a Cultural Heritage Evaluation Report (CHER).

3.4 Agency Data Requests

A request was sent to the City of Mississauga on March 13, 2023 to confirm if any properties within the Study Area had been previously identified or designated. A response was received on March 21, 2023 indicating that there are a large number of designated and listed properties in the Study Area and in order to receive all the details of the heritage properties contact the Geomatics team. An additional correspondence from the Geomatics team was received on March 27, 2023 that included the City of Mississauga GIS mapping that showed all of the heritage properties within the Study Area. These properties are listed in Section 5.4.

A request was sent to the Ontario Heritage Trust (OHT) on March 13, 2023 to obtain information related to OHT easements and owned properties. A response was received on March 14, 2023 confirming that the OHT does not have any conservation easements or Trust-owned properties within or adjacent to the Study Area.

A request was sent to the Ministry of Citizenship and Multiculturalism (MCM) on March 13, 2023 to confirm if any provincial heritage properties (PHPs) were located within the Study Area. A response was received on March 24, 2023 confirming that no properties have been designated by the Minister in the Study Area, nor is the MCM aware of any PHPs located within or adjacent to the Study Area. However, the Credit River Bridge (Mile 13.27 Lakeshore West Corridor LSW, Aka. Former CN Rail Bridge over Credit River) and Mississauga Road Bridge (Mile 13.39 LSW) are in proximity to the Study Area, but not within or adjacent.

A summary of data requested through consultation with the agencies noted above is provided in Table 3-1.

Table 3-1: Agency Data Requests

Contact Name / Position	Organization	Contact Information	Dates of Communication	Description of Information Received
Andrew Douglas, Heritage Planner	City of Mississauga	Andrew.douglas@mississauga.ca	Sent: March 13, 2023 Received: March 21 and 27, 2023	Mr. Douglas indicated that there are several designated heritage properties in the Study Area. He also indicated that there are several listed properties and to reach out to the Geomatics team to receive all the details of all the heritage properties. The Geomatics team replied and shared the City of Mississauga GIS mapping that covered all the heritage properties in the Study Area, which have been listed in section 5.4.
Kevin Baksh, OHT Registrar	OHT	kevin.baksh@heritagetrust.on.ca	Sent: March 13, 2023 Received: March 14, 2023	Mr. Baksh confirmed that the OHT does not have any conservation easements or Trust-owned properties within or adjacent to the Study Area.
Karla Barboza, Heritage Planner	MCM	karla.barboza@ontario.ca	Sent: March 13, 2023 Received: March 24, 2023	Ms. Barboza confirmed that there are no properties designated by the Minister in the Study Area, nor is the MCM aware of any PHPs within or adjacent to the Study Area. She also indicated that the Credit River Bridge (Mile 13.27 Lakeshore West Corridor LSW, Aka. Former CN Rail Bridge over Credit River) and Mississauga Road Bridge (Mile 13.39 LSW) are in proximity to the Study Area, but not within or adjacent.

4.0 HISTORICAL CONTEXT

4.1 Historical Context Overview

The Study Area is situated within Parts of Lots 1, 2, 3 and 4 Concession 2 South of Dundas Street, Part of Lots 1, 2, 3 and 4 Concession 3 South of Dundas Street in the Township of Toronto, County of Peel, now the City of Mississauga. The following provides a generalized cultural history of the Indigenous people within the Study Area's surroundings.

The sections below present a sequence of Indigenous land-use for the region from the earliest known human occupation following deglaciation, as well as more recent Euro-Canadian land-use history in the region. These periods are the Pre-Contact period and the Post-Contact (Historic) period.

4.1.1 Pre-Contact Period

The pre-contact period in Ontario has been reconstructed, primarily, from the archaeological record and interpretations made by archaeologists through an examination of material culture and site settlement patterns. Technological and temporal divisions of the pre-contact period have been defined by archaeologists based on changes to natural, cultural, and political environments that are observable in the archaeological record. It is pertinent to state that although these divisions provide a generalized framework for understanding the broader events of the pre-contact period, they are not an accurate reflection of the fluidity and intricacies of cultural practices that spanned thousands of years. The following presents a sequence of Indigenous land-use from the earliest human occupation following deglaciation to the more recent past based on the following periods as defined by archaeologists:

- The Paleo Period
- The Archaic Period
- The Woodland Period

Paleo Period

Paleo period populations were the first to occupy what is now southern Ontario, moving into the region following the retreat of the Laurentide Ice Sheet approximately 11,000 years before present (BP). The first Paleo period populations to occupy southern Ontario are referred to by archaeologists as Early Paleo (Ellis & Deller, 1990).

Early Paleo period groups are identified by their distinctive projectile point morphological types, exhibiting long grooves, or 'flutes', that likely functioned as a hafting mechanism (method of attaching the point to a wooden shaft). These Early Paleo group projectile point types include Gainey (ca. 10,900 BP), Barnes (ca. 10,700), and Crowfield (ca. 10,500) (Ellis & Deller, 1990). By approximately 10,400 BP, Paleo projectile points transitioned to various unfluted varieties, such as Holcombe (ca. 10,300 BP), Hi Lo (ca. 10,100 BP), and Unstemmed and Stemmed Lanceolate (ca. 10,400 to 9,500 BP). These tool types were used by Late Paleo period groups (Ellis & Deller, 1990). Both Early and Late Paleo period populations were highly mobile, participating in the hunting of large game animals. Paleo period sites often functioned as small campsites where stone tool production and maintenance occurred (Ellis & Deller, 1990).

Archaic Period

By approximately 8,000 BP, climatic warming supported the growth of deciduous forests in southern Ontario. These forests introduced new flora and faunal resources, which resulted in subsistence shifts and a number of cultural adaptations. This change is reflected in the archaeological record by new tool-kits that are reflective of a shift in subsistence strategies and has been categorized as the Archaic period.

The Archaic period in southern Ontario is sub-divided into the Early Archaic (ca. 10,000 to 8,000 BP), Middle Archaic (ca. 8,000 to 4,500 BP), and the Late Archaic (ca. 4,500 to 2,800 BP) periods. Generally, in North America, the Archaic period represents a transition from big game hunting to broader, more generalized subsistence strategies based on local resource availability. This period is characterized by the following traits:

- An increase in stone tool variation and reliance on local stone sources,
- The emergence of notched and stemmed projectile point types,
- A reduction in extensively flaked tools,
- The use of native copper,
- The use of bone tools for hooks, gorges, and harpoons,
- An increase in extensive trade networks, and
- The production of ground stone tools and an increase in larger, less portable tools.

The Archaic period is also marked by population growth with archaeological evidence suggesting that, by the end of the Middle Archaic period (ca. 4,500 BP), populations had steadily increased in size (Ellis, et al., 1990).

Over the course of the Archaic period, populations began to rely on more localized hunting and gathering territories and were shifting to more seasonal encampments. From the spring into the fall, settlements were focused in lakeshore/riverine locations where a variety of different resources could be exploited. Settlement in the late fall and winter months moved to interior sites where the focus shifted to deer hunting and the foraging of wild plants (Ellis et al., 1990). The steady increase in population size and the adoption of a more localized seasonal subsistence strategy led to the transition into the Woodland period.

Early and Middle Woodland Periods

The beginning of the Woodland period is defined by the emergence of ceramic technology. Similar to the Archaic period, the Woodland period is separated into three timeframes: the Early Woodland (ca. 2,800 to 2,000 BP), the Middle Woodland (ca. 2,000 to 1,200 BP), and the Late Woodland (ca. 1,200 to 350 BP) (Spence et al., 1990; Fox, 1990).

The Early Woodland period is represented in southern Ontario by two cultural complexes: the Meadowood Complex (ca. 2,900 to 2,500 BP), and the Middlesex Complex (ca. 2,500 to 2,000 BP). During this period, the life ways of Early Woodland populations differed little from that of the Late Archaic with hunting and gathering representing the primary subsistence strategies. The pottery of this period is characterized by its relatively crude construction and lack of decoration. These early ceramics exhibit cord impressions, which are likely the result of the techniques used during manufacture rather than decoration (Spence et al., 1990).

The Middle Woodland period has been differentiated from the Early Woodland period by changes in lithic tool forms (e.g. projectile points, expedient tools), and the increased decorative elaboration of ceramic vessels (Spence et al., 1990). Additionally, archaeological evidence suggests the rudimentary use of maize (corn) horticulture by the end of the Middle Woodland Period (Warrick, 2000).

In southern Ontario, the Middle Woodland has been divided into three different complexes based on regional cultural traditions: the Point Peninsula Complex, the Couture Complex, and the Saugeen Complex. These groups are differentiated by sets of characteristics that are unique to regions within the province, specifically regarding ceramic decorations.

The Point Peninsula Complex extends from south-central and eastern Ontario into southern Quebec. The northernmost borders of the complex can be found along the Mattawa and French Rivers. Ceramics are coil constructed with conical bases, outflaring rims, and flat, rounded, or pointed lips. The interior surfaces of vessels are often channelled with a comb-like implement, creating horizontal striations throughout. The exterior is smoothed, or brushed, and decoration generally includes pseudo-scallop stamps or dentate impressions. Occasionally, ceramics will have been treated with a red ochre wash (Spence et al, 1990).

The Saugeen Complex is found generally in south-central Ontario and along the eastern shores of Lake Huron. The Saugeen Complex ceramics are similar in style to Point Peninsula Complex; however, the vessels tended to be cruder than their Point Peninsula counterparts. They were characterized by coil construction with thick walls, wide necks, and poorly defined shoulders. Usually, the majority of the vessel was decorated with pseudo-scallop stamps or dentate impressions, with the latter occurring more frequently at later dates (Spence et al., 1990). The Couture Complex is found in southwestern Ontario and outside of the scope of the Study Area.

Late Woodland Period

There is much debate as to whether a transitional phase between the Middle and Late Woodland periods is present in southern Ontario, but it is generally agreed that the Late Woodland period begins around 1,100 BP. The Late Woodland period in southern Ontario can be divided into three cultural sub-phases: The early, middle, and late Late Woodland periods. The early Late Woodland is characterized by the Glen Meyer and Pickering cultures and the middle Late Woodland is characterized by the Uren and Middleport cultures. These groups are ancestral to the Iroquoian-speaking Neutral-Erie (Neutral), the Huron-Wendat (Huron), and Petun Nations that inhabited southern Ontario during the late Late Woodland period (Smith, 1990, p. 285).

The Pickering and Glen Meyer cultures co-existed within southern Ontario during the early Late Woodland period (ca. 1250-700 BP). Pickering territory is understood to encompass the area north of Lake Ontario to Georgian Bay and Lake Nipissing (Williamson, 1990). Glen Meyer is centred around Oxford and Norfolk counties, but also includes the southeastern Huron basin and the western extent is demarcated by the Ekfrid Clay Plain southwest of London, Ontario (Noble, 1975). Villages of either tradition were generally smaller in size (~1 ha) and composed of smaller oval structures, which were later replaced by larger structures later in the Late Woodland period. Archaeological evidence suggested a mixed economy where hunting and gathering played an important role, but small-scale horticulture was present, indicating a gradual shift from hunting-gathering to a horticultural economy (Williamson, 1990).

The first half of the middle Late Woodland period is represented by the Uren culture (700-650 BP) and the second half by the Middleport (650-600 BP). Uren and Middleport sites of the middle Late Woodland share a similar distribution pattern across much of southwestern and south-central Ontario. (Dodd et al., 1990). Significant changes in material culture and settlement-subsistence patterns are noted during this short time. Iroquois Linear,

Ontario Horizontal, and Ontario Oblique pottery types are the most well-represented ceramic assemblages of the middle Late Woodland period (Dodd et al., 1990). At Middleport sites, material culture changes included an increase in the manufacture and use of clay pipes as well as bone tools and adornments (Dodd et al., 1990; Ferris & Spence, 1995).

During this period, evidence in the archaeological record of small year-round villages, secondary ossuary burials, and what are thought to be semi-subterranean sweat lodges suggest a marked increase in sedentism in southern Ontario during the Uren and Middleport cultures (Ferris & Spence, 1995). The increasing permanency of settlements was a result of the development of small-scale cultivation and a subsequent increased reliance on staple crops such as maize, beans, and squash (Dodd et al., 1990; Warrick, 2000; Ferris & Spence, 1995).

Archaeological evidence from the middle Late Woodland sites also documents increases in population size, community organization and village fissioning, and the expansion of trade networks. The development of trade networks with northern Algonquian peoples has also been inferred from findings at Middleport sites along the northern parts of southwestern and south-central Ontario. These changes resulted in the more organized and complex social structures observed in the late Late Woodland period.

During the late Late Woodland period, village size significantly increased as did the complexity of community and political systems. The settlement patterns of the period can be categorized into three types: large village sites, smaller hamlets or cabin sites, and special resource extraction sites. The larger villages and smaller hamlets are typically on small creeks with sandy soils suitable for agriculture. Both larger village and small hamlet sites were both typically surrounded by palisades and activities were focused on subsistence (Lennox & Fitzgerald, 1990). Larger longhouses oriented differently than others in the village have been associated with primary familial groups, while longhouses that were located outside of palisade walls may have been for visiting groups for the purposes of trade or social gatherings (Ramsden, 1990). The cabin sites were occupied on a more seasonal basis and typically only had one or two longhouses. By this time, large-scale agriculture had taken hold, making year-round villages even more practical with the improved ability to store large crop yields over winter.

The villages in the vicinity of the Study Area were typically associated with the Huron-Wendat nations who occupied areas as far east as the Trent River and as far west as the Niagara Escarpment. They typically inhabited each village for several decades until the agricultural land was exhausted and communities moved to more fertile areas. Throughout the fifteenth and sixteenth century, community movement often included northern migrations and the incorporation of multiple smaller villages into larger coalescent villages.

The Huron-Wendat eventually dispersed from the Toronto area in the 17th century, during the period of French contact, to settle in their historic homeland of Wendake, which included territory in present-day Simcoe and Grey Counties. Today, “Wendake” is the name of the Huron-Wendat reserve located in Quebec, Ontario, which was formerly known as the village of Huronia. This coalescence and subsequent movement northward was thought to be the result of a number of socio-political factors, including increased conflict with the Five Nations Iroquois, an increased complexity in political organization, stronger trade relations with northern Algonquian groups, and interactions with early European traders (Ramsden, 1990; Birch, 2012; Ferris & Spence, 1995).

Oral histories of the Michi Saagiig (Mississauga Anishinaabeg) reflect increasing levels of inter-community relationships, integration, and trade between different groups. For example, these oral histories speak to the arrival of, and relationships with, the Huron “corn growers” (Migizi & Kapyrka, 2015). In addition to archaeological interpretations, oral histories also provide a valuable contribution to our understanding of the occupation and movement of Indigenous peoples in Ontario. The following oral history, provided by Michi Saagiig elder Gitiga

Migizi, speaks to the occupation of this area of southern Ontario by the Anishinaabeg throughout the pre-contact and post-contact periods:

- The traditional homelands of the Michi Saagiig (Mississauga Anishinaabeg) encompass a vast area of what is now known as southern Ontario. The Michi Saagiig occupied and fished the north shore of Lake Ontario where the various tributaries emptied into the lake. Their territories extended north into and beyond the Kawarthas as winter hunting grounds on which they would break off into smaller social groups for the season, hunting and trapping on these lands, then returning to the lakeshore in spring for the summer months.
- The Michi Saagiig were a highly mobile people, travelling vast distances to procure subsistence for their people. They were also known as the “Peacekeepers” among Indigenous nations. The Michi Saagiig homelands were located directly between two very powerful Confederacies: The Three Fires Confederacy to the north and the Haudenosaunee Confederacy to the south. The Michi Saagiig were the negotiators, the messengers, the diplomats, and they successfully mediated peace throughout this area of Ontario for countless generations.
- Michi Saagiig oral histories speak to their people being in this area of Ontario for thousands of years. These stories recount the “Old Ones” who spoke an ancient Algonquian dialect. The histories explain that the current Ojibwa phonology is the 5th transformation of this language, demonstrating a linguistic connection that spans back into deep time. The Michi Saagiig of today are the descendants of the ancient peoples who lived in Ontario during the Archaic and Paleo periods. They are the original inhabitants of southern Ontario, and they are still here today.
- The traditional territories of the Michi Saagiig span from Gananoque in the east, all along the north shore of Lake Ontario, west to the north shore of Lake Erie at Long Point. The territory spreads as far north as the tributaries that flow into these lakes, from Bancroft and north of the Haliburton highlands. This also includes all the tributaries that flow from the height of land north of Toronto like the Oak Ridges Moraine, and all of the rivers that flow into Lake Ontario (the Rideau, the Salmon, the Ganaraska, the Moira, the Trent, the Don, the Rouge, the Etobicoke, the Humber, and the Credit, as well as Wilmot and 16 Mile Creeks) through Burlington Bay and the Niagara region including the Welland and Niagara Rivers, and beyond. The western side of the Michi Saagiig Nation was located around the Grand River which was used as a portage route as the Niagara portage was too dangerous. The Michi Saagiig would portage from present-day Burlington to the Grand River and travel south to the open water on Lake Erie.
- Michi Saagiig oral histories also speak to the occurrence of people coming into their territories sometime between 500-1000 A.D. seeking to establish villages and a corn growing economy – these newcomers included peoples that would later be known as the Huron-Wendat, Neutral, Petun/Tobacco Nations. The Michi Saagiig made Treaties with these newcomers and granted them permission to stay with the understanding that they were visitors in these lands. Wampum was made to record these contracts, ceremonies would have bound each nation to their respective responsibilities within the political relationship, and these contracts would have been renewed annually (see Gitiga Migizi and Kapyrka, 2015). These visitors were extremely successful as their corn economy grew as well as their populations. However, it was understood by all nations involved that this area of Ontario were the homeland territories of the Michi Saagiig.
- The Odawa Nation worked with the Michi Saagiig to meet with the Huron-Wendat, the Petun, and Neutral Nations to continue the amicable political and economic relationship that existed – a symbiotic relationship that was mainly policed and enforced by the Odawa people.

- Problems arose for the Michi Saagiig in the 1600s when the European way of life was introduced into southern Ontario. Also, around the same time, the Haudenosaunee were given firearms by the colonial governments in New York and Albany which ultimately made an expansion possible for them into Michi Saagiig territories. There began skirmishes with the various nations living in Ontario at the time. The Haudenosaunee engaged in fighting with the Huron-Wendat and between that and the onslaught of European diseases, the Iroquoian speaking peoples in Ontario were decimated.
- The onset of colonial settlement and missionary involvement severely disrupted the original relationships between these Indigenous nations. Disease and warfare had a devastating impact upon the Indigenous peoples of Ontario, especially the large sedentary villages, which mostly included Iroquoian speaking peoples. The Michi Saagiig were largely able to avoid the devastation caused by these processes by retreating to their wintering grounds to the north, essentially waiting for the smoke to clear.
- Often times, southern Ontario is described as being “vacant” after the dispersal of the Huron-Wendat peoples in 1649 (who fled east to Quebec and south to the United States). This is misleading as these territories remained the homelands of the Michi Saagiig Nation.
- The Michi Saagiig participated in eighteen treaties from 1781 to 1923 to allow the growing number of European settlers to establish in Ontario. Pressures from increased settlement forced the Michi Saagiig to slowly move into small family groups around the present-day communities: Curve Lake First Nation, Hiawatha First Nation, Alderville First Nation, Scugog Island First Nation, New Credit First Nation, and Mississauga First Nation. The Michi Saagiig have been in Ontario for thousands of years, and they remain here to this day.

Migizi and Kapyrka pp. 127-136 (2015)

Early contact with European settlers at the end of the Late Woodland period resulted in extensive changes to the traditional lifestyles of most populations inhabiting Ontario including settlement size, population distribution, and material culture. The introduction of European-borne diseases significantly increased mortality rates, resulting in a drastic drop in population size (Warrick, 2000).

4.1.2 Post-Contact Period

Early European presence within the Study Area began as early as 1615 with the travels of the French explorer Etienne Brulé who travelled with the Huron along the major portage route known as the Toronto Carrying Place Trail, also known as the Humber Portage, which connected Lake Ontario with Lake Simcoe and the northern Great Lakes (Steckley, 1987; Ramsden, 1990). From Lake Ontario, the trail ran northward along the eastern branch of the Humber River.

In 1615-1616, Samuel De Champlain also travelled with the Huron northward to Georgian Bay. By the 1640s, the Huron, Petun, Neutral, and Mississauga Anishinaabeg had dispersed out of this region of southern Ontario as a result of the warfare and disease that had arrived with European colonization. The large-scale population dispersals gave way for the Haudenosaunee to occupy the territory along the north shore of Lake Ontario where they settled along inland-running trade routes. These settlements included the villages of Ganatsekwyagon on the Rouge River and Teiaiagon on the Humber River at the head of the Toronto Carrying Place Trail (Steckley, 1987; Ramsden, 1990). Due to increased military pressure from the French in the late 1600s, and the return of the Anishinaabe Nations (Ojibwa, Odawa, Potawatomi, and Mississauga) who had previously retreated to the north, the Haudenosaunee abandoned their villages along the north shore of Lake Ontario.

TREATY NO. 13A, 1805/HEAD OF THE LAKE PURCHASE

The Study Area is situated within the boundaries of Treaty No. 13A, also known as the 1805/Head of the Lake Purchase. This treaty was signed after the Toronto Purchase, Treaty No. 13, on September 6, 1805, between the Crown and the Mississaugas (Shanahan, 2021). Before this signing, the Crown had obtained nearly all of the north shore of Lake Ontario all the way to Niagara, less the area of approximately 35 miles at the head of the Lake between Niagara and York. In August 1805, the Mississaugas stated their conditions for ceding this area of land which included keeping three areas of land for themselves: Twelve Mile Creek, Sixteen Mile Creek, and at the mouth of the Credit River. They wished to keep the entire waterfront along the stretch of the land parcel, as they had been forced off of the waterfront in other treaties. A compromise was struck where the Mississaugas were promised the use of the waterfront, and another area of the parcel would be reimbursed back to the Tuscaroras after they acquired the land from the Crown in a previous deal. Eventually the treaty was drawn up and officially covered part of the Mississauga Tract beginning on the east at the Etobicoke River and extending westward to a parcel of land previously granted to Joseph Brant. A few areas were retained for the Mississaugas including a reserve on the Credit River and fishing stations at 16 Mile Creek and 12 Mile Creek. With the completion of this treaty, the Crown finally gained control over the continuous waterfront along Lake Ontario.

Toronto Township

In 1805, another land purchase was conducted by the British government and the newly acquired land was divided into three townships: Nelson Township, Trafalgar Township and Toronto Township (Riendeau, 1985). The Toronto Township surveys were completed in 1805, and settlement began soon after. Much of the land was used for farming and many small hamlets began to form throughout the township (Mississauga Heritage, 2012).

The original survey of Toronto Township, completed in 1805, was laid out with two concessions north of Base Line (now Eglinton Avenue) and three concessions south to the lakefront, excluding the reserve lands encompassing the Credit River (Riendeau, 1985). Settlement in the township concentrated along Dundas Road and by the 1830s three distinct villages had developed: Summerville, Dixie, Cooksville and Erindale (Riendeau, 1985). Communities along the Lakeshore Road were much slower to develop than those along Dundas, and by the end of the 1830s several communities to the west of the Credit River began to take shape.

In the latter half of the nineteenth century, the population of Toronto Township began to decline due to the urbanization of larger communities in proximity to the township such as Toronto, Hamilton and Brampton. These larger communities drew people off their farms into the more lucrative factory work and this change in lifestyle marked a change in how small communities would develop in the township. The villages started to develop urban sprawl (neighbourhoods), rather than developing into small towns, that were surrounded by lands used for commercial agriculture which branched out from the wheat industry into livestock and orchards.

At the end of the First World War the boundaries of the City of Toronto began to expand towards Toronto Township and the population of the township boomed. The continued urbanization focused on subdivisions spreading from the eastern edge of the township absorbing communities in its wake (Riendeau, 1985).

Port Credit

In 1834, Old Port Credit Village was surveyed, and settlers began building cottages in the area. By 1844, the population had reached 150, and the village had expanded to include a Methodist church, blacksmith shop, schoolhouse, post office, and other small businesses. Timber from the area was used for shipbuilding, and salmon fishing was prosperous until pollution from the mills affected the Credit River by the late 1840s. The area soon became a busy shipping center and the population reached 400 by the mid-1850s. The introduction of the

Great Western Railway (GWR) to the area aided communication and travel from Port Credit to both Toronto and Hamilton, however, it also diverted a portion of the shipping activity away from the harbour (Riendeau, 1985). The Port Credit rail station was opened in December 1855, near Stavebank Road. (Clarkson, 1967). In 1855, the harbour suffered from a fire, causing the shipping activity to be further affected. By the mid-1860s, the population decreased to 350. Stonehooking became a prosperous business in the Port Credit area and consisted of large schooners that would collect stones from the bottom of Lake Ontario, to be sold as building materials to Toronto and the other surrounding settlements. Port Credit also became a destination for fishing, and soon cottages and shopping areas were constructed for summer residents. By 1900, the population had increased to 650, making Port Credit the largest village in Toronto Township (Riendeau, 1985). In 1905, a new iron railway bridge was built over the Credit, replacing the wooden trestle bridge, and the train station was moved from its location at Stavebank Road to its current location (Clarkson, 1967).

In 1909, Port Credit became a Police Village as its population had reached 750 residents. By 1914, Port Credit incorporated as a Village. The Lakeshore Highway was opened in 1915, which allowed American tourists to easily visit the area, and the Queen Elizabeth Way (QEW) was completed in 1939, facilitating rapid population expansion. Port Credit transitioned into a commuter village, with many of its residents working in Toronto. The population reached 2000 by 1946 and by 1961 Port Credit acquired Town status after its population had increased to over 6500 (Clarkson, 1967).

The Toronto Township area developed further and the small villages in the area became more established. In 1968, the Town of Mississauga was created. In 1974, the Town of Mississauga amalgamated with the towns of Port Credit and Streetsville, and with parts of the townships of Toronto Gore and Trafalgar, to become the City of Mississauga (Mississauga Heritage, 2012).

4.1.3 HISTORICAL MAPPING REVIEW

A review of historical mapping and aerial photography was undertaken to understand the changing landscape and built environment within the Study Area. To determine the presence of historical features, nineteenth century historical county maps, twentieth century topographic maps, and aerial photos were reviewed. While these maps and photographs were not the only visual sources consulted for the purposes of this study, they were determined to provide the best overview of land development in the Study Area. The maps and aerial photos consulted include: the 1877 Illustrated Historical Atlas for the County of Peel, the 1909 Topographic Map from the Department of Militia and Defence, the 1922 Topographic Map from the Department of National Defence, the 1931 Topographic Map from the Department of Militia and Defence, the 1954 Aerial, the 1974 Topographic Map from the Department of Energy, Mines and Resources, and the 1994 Topographic Map from the Department of Energy, Mines and Resources.

The 1877 Illustrated Historical Atlas for the County of Peel (Figure 2) shows the late nineteenth century Lake Ontario shoreline to be relatively consistent with the shoreline of today. The Port Credit Village is visible along the mouth of the Credit River where it meets Lake Ontario. The Grand Trunk Railway line that connects to Toronto is identified crossing the Credit River. Larger lots of varied length and width are recorded to the east Port Credit Village with building footprints and ownership information marked.

The 1909 Topographic Map from the Department of Militia and Defence (Figure 3) shows the same concentrated settlement pattern as the 1877 historic map. Immediately east and north of Port Credit Village there are hardly any building footprints. The 1922 Topographic Map from the Department of National Defence (Figure 4)

demonstrates a similar concentrated settlement in the Port Credit Village area and further development immediately east on the north side of Lakeshore Road East

The 1931 Topographic Map from the Department of Militia and Defence (Figure 5) shows a further increase in residential development in the Port Credit Village vicinity to the east, and on the south side of Lakeshore Road East. The 1954 Aerial (Figure 6) shows the limits of Port Credit Village and that it has expanded greatly. Further residential development in the Mineola neighbourhood is visible immediately north of the railway. The railway has changed ownership to the Canadian National Railway.

The 1974 Topographic Map from the Department of Energy, Mines and Resources (Figure 7) demonstrates similar development patterns as the 1954 Aerial, with the addition of the Port Credit Marina. The 1994 Topographic Map from the Department of Energy, Mines and Resources (Figure 8) shows the increasing suburban development of the surrounding area, which continues through the 2000s based on additional aerial photography.

5.0 EXISTING CONDITIONS

5.1 Site Visit

A field visit was conducted on March 15, 2023 by Claire Forward, Cultural Heritage Specialist, to record the existing conditions of the project Study Area. The field review was preceded by a review of available historical and current aerial photographs and maps. These photographs and maps were reviewed for any potential BHRs and CHLs that may be extant in the Study Area. The existing conditions of the Study Area are described below.

5.2 Description of Existing Conditions

The majority of the Study Area consists of residential subdivisions and a commercial area. The type of roadway throughout the Study Area is asphalt. As visible from the roads in the Study Area, the representative resources include houses and commercial buildings. The Study Area consists of parts of Stavebank Road, Rosemere Road, Mona Road, Sandham Road, Vesta Drive, Lakeshore Road East, Hiawatha Parkway, Wanita Road, Cumberland Drive, Rosewood Avenue, Elmwood Avenue North, Elmwood Avenue South, Carlis Place, St. Lawrence Drive, and Front Street North.

5.2.1 Stavebank Road

Stavebank Road travels north-south at the northern boundary of the Study Area. The road begins at the Queensway West in the north and terminates at the Port Credit Harbour Marina in the south. The road surface is asphalt and contains one lane of traffic in both directions and partial gravel shoulders in some areas. Within the Study Area the lands on either side of Stavebank Road consist of individual dwellings (Image 1 – Image 4).

Image 1: View of Stavebank Road looking north towards the intersection with Mineola Road West.

Image 2: View of typical dwellings on Stavebank Road.

Image 3: View of Stavebank Road looking south towards the railway crossing.

Image 4: View of Stavebank Road looking east at the intersection with Rosemere Road.

5.2.2 Rosemere Road

Rosemere Road travels east-west at the intersection with Stavebank Road. The road begins and ends at Stavebank. The road surface is asphalt and contains one lane of traffic in both directions with no shoulders. The lands on the north side of Rosemere Road consist of individual dwellings. The lands on the south side of Rosemere Road contain the Rosemere SPS (Image 5 – Image 6).

Image 5: View of Rosemere Road looking west towards the intersection with Stavebank Road.

Image 6: View of typical dwellings on Rosemere Road.

5.2.3 Mona Road

Mona Road travels north-south at the intersection with Sandham Road. The road begins at Veronica Drive in the north and ends at Sandham Road in the south. The road surface is asphalt and contains one lane of traffic in both directions with no shoulders. The lands on both sides of Mona Road consist of individual dwellings (Image 7 – Image 8).

Image 7: View of Mona Road looking north from the intersection with Sandham Road.

Image 8: View of typical dwelling on Mona Road.

5.2.4 Sandham Road

Sandham Road travels east-west between Mona Road and Vesta Drive. The road begins at Mona Road in the east and Vesta Drive in the west. The road surface is asphalt and contains one lane of traffic in both directions with no shoulders. The lands on both sides of Mona Road consist of no dwellings and a series of trees that act as a barrier between Sandham Road and the railway (Image 9 – Image 10).

Image 9: View of Sandham Road looking west towards the intersection with Mona Road.

Image 10: View of Sandham Road looking east towards the intersection with Vesta Drive.

5.2.5 Vesta Drive

Vesta Drive travels north-south at the intersection with Sandham Road. The road begins at Veronica Drive in the north and ends at Sandham Road in the south. The road surface is asphalt and contains one lane of traffic in both directions with no shoulders. The lands on both sides of Vesta Drive consist of individual dwellings (Image 11 – Image 12).

Image 11: View of Bath Road looking south towards the intersection with Sandham Road.

Image 12: View of typical dwelling on Vesta Drive.

5.2.6 Lakeshore Road East

Lakeshore Road East travels east-west in the middle of the overall Study Area. The road begins at Lake Shore Boulevard West in Etobicoke in the east and ends at Lakeshore Road West in Port Credit in the west. The road surface is asphalt and contains two lanes of traffic in both directions with sidewalks on either shoulder. The road is lined with one to three-storey commercial and residential buildings. The Port Credit Lighthouse is located at the intersection of Front Street North and Lakeshore Road East (Image 13 – Image 16).

Image 13: View of Lakeshore Road East looking east at the Hiawatha Parkway intersection.

Image 14: View of Lakeshore Road East looking west at the Hiawatha Parkway intersection.

Image 15: View of Lakeshore Road East looking north towards the intersection with Stavebank Road.

Image 16: View of Lakeshore Road East looking south towards the Port Credit Lighthouse at the intersection with Front Street North and Lakeshore Road West.

5.2.7 Hiawatha Parkway

Hiawatha Parkway travels north-south at the intersection with Wanita Road. The road begins at Lakeshore Road East in the north and ends at Cumberland Drive in the south. The road surface is asphalt and contains one lane of traffic in both directions with no shoulders. The lands on both sides of Hiawatha Parkway consist of individual dwellings (Image 17 – Image 20).

Image 17: View of Hiawatha Parkway looking north at the intersection with Wanita Road.

Image 18: View of Hiawatha Parkway looking south at the intersection with Wanita Road.

Image 19: View of Hiawatha Parkway looking south at the intersection with Cumberland Drive.

Image 20: View of Hiawatha Parkway looking north at the intersection with Cumberland Drive.

5.2.8 Wanita Road

Wanita Road travels east-west at the intersection with Hiawatha Parkway. The road begins immediately south of St. James Catholic School in the east and ends at Elmwood Avenue South in the west. The road surface is asphalt and contains one lane of traffic in both directions with no shoulders. The lands on both sides of Wanita Road consist of individual dwellings (Image 21 – Image 24).

Image 21: View of Wanita Road looking east at the intersection with Hiawatha Parkway.

Image 22: View of Wanita Road looking west at the intersection with Hiawatha Parkway.

Image 23: View of Wanita Road looking east at the intersection with Elmwood Avenue South.

Image 24: View of typical dwelling on Wanita Road.

5.2.9 Cumberland Drive

Cumberland Drive travels north-south at the intersection with Lakeshore Road East and east-west opposite Lake Ontario. The road begins at Lakeshore Road East in the north and ends at the waterfront trail next to the Adamson Estate in the east. The road surface is asphalt and contains one lane of traffic in both directions with no shoulders. The lands on both sides of Cumberland Drive consist of individual dwellings (Image 25 – Image 26).

Image 25: View of Cumberland Drive look east at the intersection with Hiawatha Parkway.

Image 26: View of a typical dwelling on Cumberland Drive.

5.2.10 Rosewood Avenue

Rosewood Avenue travels north-south at the intersection with Lakeshore Road East. The road begins at Queen Street East in the north and ends at ends at Lakeshore Road East in the south. The road surface is asphalt and contains one lane of traffic in both directions with sidewalks on either shoulder. The lands on both sides of Rosewood Avenue consist of individual dwellings, a park, and several commercial buildings (Image 27 – Image 28).

Image 27: View of Rosewood Avenue looking north at the intersection with Lakeshore Road East.

Image 28: View of a typical dwelling on Rosewood Avenue.

5.2.11 Elmwood Avenue North

Elmwood Avenue North travels north-south at the intersection with Lakeshore Road East. The road begins at Queen Street East in the north and ends at ends at Lakeshore Road East in the south. The road surface is asphalt and contains one lane of traffic in both directions with a single sidewalk on the western shoulder. The lands on both sides of Elmwood Avenue North consist of individual dwellings and commercial buildings (Image 29 – Image 30).

Image 29: View of Elmwood Avenue North looking south from the intersection with Forest Avenue.

Image 30: View of a typical dwelling on Elmwood Avenue North.

5.2.12 Elmwood Avenue South

Elmwood Avenue South travels north-south at the intersection with Lakeshore Road East. The road begins at Lakeshore Road East in the north and ends at Carlis Place in the south. The road surface is asphalt and contains one lane of traffic in both directions. The lands on the east side of Elmwood Avenue South consist of individual dwellings. The lands on the west side of Elmwood Avenue South consist of a large hedge that separates the street from the neighbouring townhouse development on St. Lawrence Drive (Image 31 – Image 32).

Image 31: View of Elmwood Avenue South looking south towards the intersection with Wanita Road.

Image 32: View of Elmwood Avenue South looking north at the intersection with Wanita Road.

5.2.13 Carlis Place

Carlis Place travels east in a circle at the intersection with Elmwood Avenue South. The road begins and ends at Elmwood Avenue South. The road surface is asphalt and contains one lane of traffic in both directions with no shoulders. The lands on Carlis Place consist of individual dwellings (Image 33 – Image 34).

Image 33: View of Carlis Place looking east at the intersection with Elmwood Avenue South.

Image 34: View of a typical dwelling on Carlis Place.

5.2.14 St. Lawrence Drive

St. Lawrence Drive travels north-south at the intersection with Lakeshore Road East. The road begins and ends at Lakeshore Road East. The road surface is asphalt and contains one lane of traffic in both directions with sidewalks on either shoulder. The lands on both sies of St. Lawrence Drive consist of modern townhouses and the Tall Oaks Park immediately south (Image 35 – Image 38).

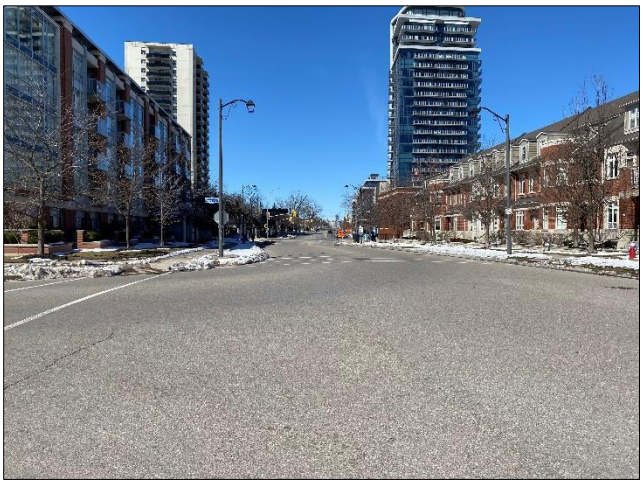


Image 35: View of St. Lawrence Drive looking north towards the intersection with Lakeshore Road East.

Image 36: View of a typical dwelling on St. Lawrence Drive.

Image 37: View of St. Lawrence Drive from the waterfront trail in Tall Oaks Park, looking north east.

Image 38: View immediately south of St. Lawrence Drive in Tall Oaks Park on the waterfront trail, looking east towards Carlis Place.

5.2.15 Front Street North

Front Street North travels north-south at the intersection with Lakeshore Road East. The road begins at Mississauga Road in the north and ends at Lakeshore Road East in the south. The road surface is asphalt and contains one lane of traffic in both directions with sidewalks on either shoulder. The lands on the east side of Front Street North contain a park and the Don Rowing Club of Mississauga. The lands on the west side of Front Street North contain both dwellings and commercial and public buildings (Image 39 to Image 42).

Image 39: View of Front Street North looking south at the intersection with High Street West.

Image 40: View Front Street North looking north after the intersection with Lakeshore Road East.

Image 41: View of the Lakeshore Road East and Front Street North intersection from the bridge looking west.

Image 42: View of a typical dwelling on Front Street North.

5.3 Previous Cultural Heritage Assessments

There have been several cultural heritage assessments whose Study Area overlaps or is located nearby the current Study Area:

- Cultural Heritage Screening Report: Port Credit Wastewater Servicing Optimization Class Environmental Assessment (Golder, 2020)
- Heritage Impact Assessment: 10 Mississauga Road North Heritage Impact Assessment (Heritage Resources Consulting, 2020)
- Cultural Heritage Resource Assessment: Front Street Wastewater Diversion Project (WSP, 2019)
- Heritage Impact Assessment and Cultural Landscape Heritage Impact Assessment: 70 Mississauga Road South and 181 Lakeshore Road West (ERA, 2018)

All extant cultural heritage resources identified in these studies that fall within the current Study Area have been identified in Table 5-1: Identified BHRs and CHLs with Known or Potential CHVI.

5.4 Identified Cultural Heritage Resources

A desktop study and a field visit were completed to identify known and potential BHRs and CHLs older than 40 years of age located within or adjacent to the Study Area as described in Section 3. A review was conducted to determine previously identified heritage resources documented within or adjacent to the Study Area, including listed (registered non-designated) and designated properties, heritage conservation districts and known CHLs. This included a review of the City of Mississauga's Heritage Register (2023). Two (2) CHLs, one (1) HCD, and eight (8) BHRs were identified in the Study Area.

During the field review, the Study Area was examined for potential heritage resources by employing a high-level and cursory evaluation based on an understanding of the criteria identified in the MCM's *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes*. As a result of this review, one (1) CHL and seventeen (17) BHRs were identified in the Study Area.

See Table 5-1 on the following page for a description of the heritage resources, and Figure 9 and 10 in Appendix A for an illustration of their locations within the Study Area.

Table 5-1: Identified BHRs and CHLs with Known or Potential CHVI

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
CHL 1	Residential Neighbourhood	Hurontario Street to the northeast, the railway tracks and Port Credit Go Station to the southeast, the Credit River to the southwest, and the Q.E.W. to the northwest.	Listed as a Cultural Heritage Landscape on City of Mississauga's Inventory of Cultural Heritage Landscapes	The Mineola Neighbourhood Residential Landscape, as noted in the Cultural Landscape Inventory was developed before it became standard practice to regrade top soil into large piles in the early twentieth century. A road system was imposed on the natural rolling topography of the Iroquois Plain and homes were constructed in slightly larger lots where natural drainage areas were retained. This provided greater opportunity to save existing trees and because the soils and drainage system were minimally impacted, provided fertile ground for the planting of new vegetation, the natural regeneration of native trees and landscaping of the residential landscapes. Its cultural heritage attributes include: ▪ Mature tree canopy and natural landscaping throughout the Mineola Neighbourhood ▪ Existing roadway locations and widths ▪ Undulating topography ▪ The street patterns with rural cross-section ▪ Setbacks of existing residential buildings throughout the neighbourhood ▪ Built form associated with development prior to 1960 ▪ Stone walls and fencing throughout the neighbourhood	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
CHL 2	Natural Area - River	Credit River from Port Credit to the north boundary of Mississauga	Listed as a Cultural Heritage Landscape on City of Mississauga's Inventory of Cultural Heritage Landscapes	This landscape is a core of greenspace through Mississauga, its topography varies from wide floodplains to sharply sloping valley walls. According to the Cultural Landscape Inventory, the Credit River is the most significant natural landscape and wildlife habitat in the city. The Government Inn 1798-1861 plaque is located within the CHL. During a pre-PIC meeting, the City of Mississauga informed GM BluePlan that the plaque has since been removed for temporary storage due to the Front Street Pumping Station and Wastewater Diversion. Its cultural heritage attributes include: ▪ The steep valley walls, benches, and alluvial terraces of the Credit River Valley; ▪ The meandering river and meander belt; ▪ The scenic quality of the natural environment, including the river and vegetation of the Valley; ▪ Existing city and community parks; ▪ Feature sites, identified in the Credit River Parks Strategy: ▪ Bridging points: Queen Elizabeth Way Bridge over Credit River, Canadian National Bridge over Credit River; ▪ Existing trail systems; ▪ Public access to the river; ▪ Known and potential archaeological sites and ruins; ▪ Port Credit Pier; ▪ Wetlands; ▪ Geological formations, in particular north and south of Dundas Street along the Credit ▪ River; ▪ Port Credit Lighthouse; and ▪ Identified viewpoints, identified overlooks, and potential overlooks	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
CHL 3	Transportation - Railway	Railway crosses through the northern portion of the Study Area and through Mississauga.	Potential Cultural Heritage Value or Interest (CHVI) identified during field review.	Former Hamilton and Toronto Railway Line that opened in 1856. The railway is visible on Tremaine's 1859 Map of the County of Peel, Canada West and continues to function as a railway with GO and VIA trains currently occupying the track.	
HCD 1	Village Settlement	The natural boundary of the Credit River defines the eastern limit, the southern boundary of Lake Ontario, the western boundary of Mississauga Road defines the western edge, and the northern boundary of Lakeshore Road West.	Designated as a Heritage Conservation District under Part V of the OHA (By-law 0272-2004)	The current HCD plan was approved by the Ontario Municipal Board in 2004 and was amended in 2018. Due to extensive redevelopment north of Lakeshore Road West, the District contains almost all of the features associated with old Port Credit village. The Old Port Credit Village HCD's heritage attributes include: ▪ Property boundaries conform to the government's planned village survey dated 1835; ▪ Human use and activity predate the government's village survey by many thousands of years; ▪ Urban form is defined by the original grid of streets, by the Credit River and by J.C. Saddington Park; ▪ The urban fabric is primarily comprised of a low-rise built form with modest building footprints relative to lot size; ▪ A number of institutional landmarks important to Port Credit's history remain; ▪ A number of historic buildings, built as houses and converted to commercial use or built with a public function in mind, but now used as houses remain; ▪ Other houses of historic interest are modest vernacular dwellings; ▪ Front yards consist of maintained landscaping of lawns and ornamental gardens with a variety of deciduous and coniferous specimen trees. Parking is generally provided in a single car width driveway often leading to a rear yard garage. ▪ Views of Credit River and Lake Ontario from Lakeshore Road West and from within the District; ▪ Views from Lake Ontario and the mouth of the Credit River harbour north to Lakeshore Road West, including both sides of the harbour.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 1	Dwelling	1150 Stavebank Road	Listed on the Heritage Register, but not Designated	This property contains a one-storey horizontally clad with blue siding post-war Suburban dwelling. It has a side gabled roof and a rectangular plan and was constructed in the post-war boom. The house has an symmetrical façade and consists of a centered entrance flanked by windows. It has been modified with the addition of new windows and a new front door. This property is a part of CHL 1, the Mineola Neighbourhood Residential Landscape.	
BHR 2	Dwelling	1159 Stavebank Road	Listed on the Heritage Register, but not Designated	This property contains a two-storey horizontally clad with blue siding Georgian style dwelling. It has a red mansard roof with a rectangular plan. The house has a symmetrical façade and is made up of a centered entrance flanked by windows on the ground floor and three windows centered on the first floor, with the middle window having a Juliet balcony. Topographic mapping suggests a dwelling on this property was constructed before 1922. It has been modified with the addition of new windows and a new front door. This property is a part of CHL 1, the Mineola Neighbourhood Residential Landscape.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 3	Dwelling	1153 Mona Road	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a one-storey yellow-brick post-war Suburban dwelling with a side gabled roof, constructed in the post-war boom with a rectangular plan. The house has an asymmetrical façade and consists of a centered entrance flanked by windows of varying sizes. It has been modified with the addition of new windows and a new front door. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape. This property is a part of CHL 1, the Mineola Neighbourhood Residential Landscape.	
BHR 4	Dwelling	1150 Vesta Drive	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a one-storey yellow-brick post-war Suburban dwelling with side gabled roof, constructed in the post-war boom with a rectangular plan. The house has a symmetrical façade and consists of a centered entrance flanked by windows of equal sizes. It has been modified with the addition of new windows and a new front door. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape. This property is a part of CHL 1, the Mineola Neighbourhood Residential Landscape.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 5	Dwelling	1155 Vesta Drive	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a one-storey yellow-brick post-war Suburban dwelling with low slope hipped roof, constructed in the post-war boom with a rectangular plan. It has an asymmetrical façade. It has been modified with the addition of new windows and a new front door. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape. This property is a part of CHL 1, the Mineola Neighbourhood Residential Landscape.	
BHR 6	Dwelling	75 Cumberland Drive	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a two-storey horizontally clad with yellow siding Suburban dwelling with a hip roof, constructed in the post-war boom with a rectangular plan. It has been modified with the addition of new windows, a new front door, and garage extension. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 7	Dwelling	83 Cumberland Drive	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a one-storey stucco-clad post-war Suburban dwelling with a mansard roof, constructed in the post-war boom with a rectangular plan. It has been modified with the addition of new windows, a new front door, and new paving. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	
BHR 8	Dwelling	40 Hiawatha Parkway	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a one and a half storey red-brick Georgian Revival cottage dwelling, constructed during the 1930s. The house has a rectangular plan and a medium pitched gable roof, punctuated by two dormers. The house has a symmetrical façade and the entrance is flanked by two windows. It has been modified with the addition of new windows and a new front door.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 9	Dwelling	21 Hiawatha Parkway	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a one-storey red-brick post-war Suburban dwelling with a low slope hipped gable roof, constructed in the post-war boom with a rectangular plan, with an enclosed porch on the main facade. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	
BHR 10	Dwelling	23 Hiawatha Parkway	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a one and a half storey red-brick post-war Suburban dwelling with a high pitched gabled roof and central dormer with two windows, constructed in the post-war boom with a rectangular plan. It has been modified with the addition of new windows and a new front door. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 11	Dwelling	24 Hiawatha Parkway	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a two-storey red-brick post-war Suburban dwelling with a side-gabled roof and central dormer, constructed in the post-war boom with a rectangular plan. Horizontal siding surrounds the window and door openings. It has been modified with the addition of new windows and a new front door. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	
BHR 12	Dwelling	25 Rosewood Avenue	Listed on the Heritage Register, but not Designated	This property includes a two-storey Edwardian dwelling with a hip roof and central dormer. It is clad in beige stucco and has a red brick chimney stack on the south façade. It was constructed between 1900 and 1930 with a rectangular plan. It has been modified with the addition of new windows and a new front door.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 13	Dwelling	17 Rosewood Avenue	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a one-storey red-brick and horizontal siding post-war Suburban dwelling with a hip roof, constructed in the post-war boom with a rectangular plan. It has been modified with the addition of new windows and a new front door. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	
BHR 14	Dwelling	11 Rosewood Avenue	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property is an example of a two-storey Edwardian dwelling with a hip roof and central dormer and is horizontally clad in white siding. It was constructed between 1900 and 1930 with a rectangular plan. It has been modified with the addition of new windows and a new front door.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 15	Dwelling	10 Rosewood Avenue	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a one-storey red-brick post-war Suburban dwelling with a side-gabled roof and central dormer, constructed in the post-war boom with a rectangular plan. Horizontal siding surrounds the window and door openings. It has been modified with the addition of new windows and a new front door. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	
BHR 16	Dwelling	7 Elmwood Avenue North	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a two-storey dwelling, now converted to a business, with a hipped roof, broad eaves, a central dormer, large windows and a red brick chimney stack on the south façade. It was constructed in between 1931 and 1954 in the Prairie style with a rectangular plan. It has been modified with the addition of new windows and a new front door.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 17	Apartment Block	181 Lakeshore Road East	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a two-storey red-brick post-war Suburban apartment building with a flat roof, constructed during the post-war boom with a rectangular plan. It has been modified with the addition of new windows and a new front door. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	
BHR 18	Apartment Block	183 Lakeshore Road East	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property also contains a four-storey red-brick post-war Suburban apartment building with a flat roof and concrete coursing, constructed during the post-war boom with a rectangular plan. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 19	Apartment Block	185 Lakeshore Road East	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property also contains a four-storey red-brick post-war Suburban apartment building with a flat roof and concrete coursing, constructed during the post-war boom with a rectangular plan. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	
BHR 20	Dwelling	1 Wanita Road	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a three-storey red and yellow-brick apartment building with a low slope hipped roof, constructed in 1954 in the modern style with a rectangular plan. It has been modified with the addition of new windows and a new front door. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 21	Dwelling	3 Carlis Place	Potential Cultural Heritage Value or Interest (CHVI) identified during field review	This property contains a three-storey yellow-brick apartment building with a low slope hipped roof, constructed between 1955 and 1966 in the modern style with a rectangular plan. It has been modified with the addition of new windows and a new front door. It is directly related to the development of the surrounding area as it changed from rural properties and farms to an urban landscape.	
BHR 22	Dwelling	10 Front Street North	Listed on Heritage Register but not Designated	The property contains a two-storey red-brick dwelling with a cross-gable roof, constructed between 1890 and 1912 in the Suburban Farmhouse style of the Gothic Revival style with a L-shaped plan. It has been modified with a front porch addition and new windows and doors. It is directly related to the origins of Port Credit Village.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 23	Recreational Sport Club	25 Front Street North	Listed on Heritage Register but not Designated	The Don Rowing Club of Mississauga is located at 25 Front Street North. Formed in 1878 by the Christie brothers, the Don Rowing Club was originally located in downtown Toronto close to Overend Street. The club moved to the town of Port Credit in 1960 and joined forces with the canoe club to construct the building that presently occupies the site. It was difficult to construct since the land beneath the building was wetlands, so pilings had to be driven 35-40 feet down into the ground to stabilize the land. The building is three storeys in height and modern in style with a rectangular plan. It is made up of a grey and white brick with modern window and door openings. The rowing club is a part of CHL 2, the Credit River Corridor.	
BHR 24	Port Credit Memorial Library	20 Lakeshore Road East	Listed on Heritage Register but not Designated	The Port Credit Memorial Library was constructed in 1962 in the modern style. The building is two stories in heights and rectangular in plan. It is made up of glass and yellow brick with modern window and door openings. During the 2010s an extension was added to the east elevation and the yellow brick was covered with black siding. The building is currently undergoing structural repairs. The library is a part of CHL 2, the Credit River Corridor.	

BHR OR CHL #	TYPE OF PROPERTY	LOCATION	HERITAGE RECOGNITION	DESCRIPTION OF KNOWN OR POTENTIAL CHVI	PHOTOGRAPHS
BHR 25	Port Credit Memorial Park	22 Stavebank Road	Listed on Heritage Register but not Designated	The park consists of various walkways, a large pavilion, open lawn and plaza space usually used for events and festivals. There is also a picnic area, skate park, and playground. The park is a part of CHL 2, the Credit River Corridor.	

6.0 PRELIMINARY IMPACT ASSESSMENT

To establish potential impacts, identified BHRs and CHLs were considered against a range of possible impacts as outlined in the MCM's *Information Bulletin 3: Heritage Impact Assessments for Provincial Heritage Properties* (2017) (see Section 1.2 for a full description of impacts).

Where any BHRs and CHLs may experience direct or indirect impacts, appropriate mitigation measures will be developed. If appropriate, this may require the completion of a CHER to identify the property's CHVI and heritage attributes if the property's heritage attributes have yet to be defined. For properties that have been subject to a CHER or their CHVI has otherwise been defined, an HIA may be required to determine appropriate mitigation measures.

6.1 Preliminary Impacts on Cultural Heritage Resources

This section provides a preliminary assessment of the potential adverse affects that may result from the Project's preferred alternatives. The conservation of BHRs and CHLs in planning is considered to be a matter of public interest. Changes to transit infrastructure have the potential to adversely affect BHRs and CHLs by displacement and/or disruption during and after construction. These heritage resources may experience displacement (i.e., removal) if they are located within the footprint of the undertaking. There may also be potential for disruption or indirect impacts to BHRs and CHLs by the introduction of physical, visual, audible or atmospheric elements that are not in keeping with their character and/or setting.

Methods of minimizing or avoiding a negative impact on a BHR or CHL include, but are not limited to:

- Alternative development approaches;
- Isolating development and site alteration from significant built and natural features and vistas;
- Design guidelines that harmonize mass, setback, setting and materials;
- Limiting height and density;
- Allowing only compatible infill and additions;
- Reversible alterations;
- Buffer zones, site plan control and other planning mechanisms;
- Recommendations for additional studies, including CHERs, HIAs and Strategic Conservation Plans; and,
- Alterations to project design during construction planning and project controls (i.e., vibration reduction, dust suppression or other measures).

Table 6-1 considers the potential impacts of the preferred alternatives on known or potential BHRs and CHLs. The Study Area for the Port Credit East Water and Wastewater Servicing Optimization Strategy was reviewed to assess impacts to identified heritage resources (Figure 9 and 10 in Appendix A).

Table 6-1: Impacts and Preliminary Mitigation Strategies for BHRs and CHLs

RESOURCE	ADDRESS/LOCATION	DISCUSSION OF IMPACT	MITIGATION STRATEGIES
CHL 1	Hurontario Street to the northeast, the railway tracks and Port Credit Go Station to the southeast, the Credit River to the southwest, and the Q.E.W. to the northwest.	**Direct Impact** **Rationale:** Construction works will be carried out within the boundaries of the CHL.	A Heritage Impact Assessment should be undertaken to recommend whether mitigative measures are required to conserve the significant attributes of the CHL.
CHL 2	Credit River from Port Credit to the north boundary of Mississauga	**Direct Impact** **Rationale:** Construction works will be carried out within the boundaries of the CHL.	A Heritage Impact Assessment should be undertaken to recommend whether mitigative measures are required to conserve the significant attributes of the CHL.
CHL 3	Railway crosses through the northern portion of the Study Area and through Mississauga.	**No Impact** **Rationale:** The works will not extend to CHL 3, no impacts are anticipated for CHL 3.	None required.
HCD 1	The natural boundary of the Credit River defines the eastern limit, the southern boundary of Lake Ontario, the western boundary of Mississauga Road defines the western edge, and the northern boundary of Lakeshore Road West.	**Potential Impact** **Rationale:** Construction works will be carried out immediately adjacent to the HCD.	A Heritage Impact Assessment should be undertaken to recommend whether mitigative measures are required to conserve the significant attributes of the HCD.
BHR 1	1150 Stavebank Road	**No Impact** **Rationale:** The works will not extend to BHR 1 at 1150 Stavebank Road, no impacts are anticipated for BHR 1.	None required.
BHR 2	1159 Stavebank Road	**No Impact** **Rationale:** The works will not extend to BHR 2 at 1159 Stavebank Road, no impacts are anticipated for BHR 2.	None required.
BHR 3	1153 Mona Road	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. Road occupancy for construction will be located adjacent to the property, as such unforeseen vibration	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.

RESOURCE	ADDRESS/LOCATION	DISCUSSION OF IMPACT	MITIGATION STRATEGIES
		impacts could result from construction activities.	
BHR 4	1150 Vesta Drive	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. Road occupancy for construction will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 5	1155 Vesta Drive	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. Road occupancy for construction will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 6	75 Cumberland Drive	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. Construction works will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 7	83 Cumberland Drive	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. Construction works will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 8	40 Hiawatha Parkway	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts..

RESOURCE	ADDRESS/LOCATION	DISCUSSION OF IMPACT	MITIGATION STRATEGIES
		undertaking. Construction works will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	
BHR 9	21 Hiawatha Parkway	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. Road occupancy for construction will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 10	23 Hiawatha Parkway	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. Road occupancy for construction will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 11	24 Hiawatha Parkway	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. Road occupancy for construction will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 12	25 Rosewood Avenue	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. CTE for construction will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.

RESOURCE	ADDRESS/LOCATION	DISCUSSION OF IMPACT	MITIGATION STRATEGIES
BHR 13	17 Rosewood Avenue	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. CTE for construction will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 14	11 Rosewood Avenue	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. CTE for construction will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 15	10 Rosewood Avenue	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. CTE for construction will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 16	7 Elmwood Avenue North	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. CTE for construction and new infrastructure will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 17	181 Lakeshore Road East	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. New infrastructure and a proposed shaft will be located adjacent to the	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.

RESOURCE	ADDRESS/LOCATION	DISCUSSION OF IMPACT	MITIGATION STRATEGIES
		property, as such unforeseen vibration impacts could result from construction activities.	
BHR 18	183 Lakeshore Road East	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. New infrastructure will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 19	185 Lakeshore Road East	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. New infrastructure will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 20	1 Wanita Road	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. Road occupancy for construction will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 21	3 Carlis Place	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. CTE for construction, new infrastructure, and a proposed shaft will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.

RESOURCE	ADDRESS/LOCATION	DISCUSSION OF IMPACT	MITIGATION STRATEGIES
BHR 22	10 Front Street North	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. CTE for construction, new infrastructure, and two proposed shafts will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 23	25 Front Street North	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. CTE for construction, new infrastructure, and two proposed shafts will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 24	20 Lakeshore Road East	**Indirect Impact** **Rationale:** The property is not anticipated to be directly impacted by the undertaking. New infrastructure will be located adjacent to the property, as such unforeseen vibration impacts could result from construction activities.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.
BHR 25	22 Stavebank Road	**Indirect Impact** **Rationale:** Sub-surface construction works will be carried out within the boundaries of BHR 25. However, there will be no surface disturbance.	Vibration monitoring should be undertaken during construction to monitor potential vibration impacts.

7.0 CONCLUSIONS

The results of the background historical research and review of the secondary source materials, including historic mapping, revealed that the Study Area consists of lands that have been shaped by an early village settlement dating from the nineteenth century.

The following provides a summary of the assessment results:

- Three (**3**) CHLs, (**1**) HCD, and (**25**) BHRs were identified for the Port Credit East Water and Wastewater Servicing Optimization Schedule 'C' Municipal Class Environment Assessment.
- The (**2**) CHLs, (**1**) HCD, and (**8**) BHRs were included in the City of Mississauga's Heritage Register, and one (**1**) CHL and seventeen (**17**) BHRs were identified in field review.

8.0 RECOMMENDATIONS

This Cultural Heritage Report has resulted in the following recommendations:

1) Staging and construction activities should be appropriately located and/or planned to avoid impacts to the identified BHRs, CHLs, and the HCD.

2) Vibration impacts are anticipated for twenty-three (23) heritage resources: BHR 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25. During adjacent construction or excavation, vibration impacts will be monitored, and work will stop immediately if vibration thresholds are exceeded.

3) No anticipated direct or indirect impacts were identified for three (3) heritage resources: BHR 1 and 2, and CHL 3. No further heritage reporting is required for these resources at this time.

4) Heritage Impact Assessments (HIAs) are recommended for three (3) heritage resources: CHL 1 and 2, and HCD 1. These resources are designated and will experience impacts to their properties as a result of the Project's undertaking. As such, HIAs are recommended to understand and identify the impacts to the cultural heritage attributes, and to recommend appropriate mitigative measures to reduce or remove the impact to the resources.

5) Should future work require expansion of the Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule 'C' Municipal Class EA Study Area, a qualified heritage consultant should be contacted to confirm the impacts of the proposed work on known or potential BHRs, CHLs, and HCD.

Signature Page

WSP Canada Inc.

Claire Forward, BA (Hons.), MA, MSc
Cultural Heritage Specialist

Michael Teal, PhD, CAHP
Director, Archaeology and Heritage

CF/MT/mp

https://golderassociates.sharepoint.com/sites/114195/project files/6 deliverables/1 - cultural heritage/port credit east chr_final-31aug2023.docx

REFERENCES

ASI. (2022). Conserving Heritage Landscapes, Cultural Heritage Landscape Project – Volume 3. Mississauga, Ontario.

Birch, J. (2012). Coalescent Communities: Settlement Aggregation and Social Integration in Iroquoian Ontario. American Antiquity 77(4): pp.646-670. The Society for American Archaeology.

City of Mississauga. (2021). Port Credit Local Area Plan. Mississauga, Ontario.

City of Mississauga. (2021). Official Plan. Mississauga, Ontario.

City of Mississauga. (2005). Cultural Landscape Inventory. Mississauga, Ontario.

Department of Energy, Mines and Resources. (1994). Sheet 030M12.

Department of Energy, Mines and Resources. (1974). Sheet 030M12A and 030M11D.

Department of Militia and Defence. (1931). Sheet 030M12.

Department of Militia and Defence. (1909). Sheet 030M12.

Department of National Defence. (1922). Sheet 030M12.

Dodd, C. F., Poulton, D. R., Lennox, P. A., Smith, D. G., & Warrick, G. A. (1990). The Middle Ontario Iroquoian Stage. In C. J. Ellis & N. Ferris (Eds.), The Archaeology of Southern Ontario to A.D. 1650 (pp. 321-360). London, Ontario: London Chapter, Ontario Archaeological Society.

Ellis, C. J. & D. B. Deller. (1990). Paleo-Indians. In C.J. Ellis & N. Ferris (Eds.) The Archaeology of Southern Ontario to A.D. 1650 (pp. 37-74). London, Ontario: London Chapter, Ontario Archaeological Society.

Ellis, C. J., I. T. Kenyon, & M. W. Spence. (1990). The Archaic. In C.J. Ellis & N. Ferris (Eds.) The Archaeology of Southern Ontario to A.D. 1650 (pp. 65-124). London, Ontario: London Chapter, Ontario Archaeological Society.

Ferris, N. & Spence, M. W. (1995). The Woodland Traditions in Southern Ontario. Revista de Arquologia Americana 9: (pp. 83-138) Pan American Institute of Geography and History.

Fox, W. (1990). The Middle Woodland to Late Woodland Transition. In C.J. Ellis & N. Ferris (Eds.) The Archaeology of Southern Ontario to A.D. 1650 (pp. 177-181). London, Ontario: London Chapter, Ontario Archaeological Society.

Julig, P. (2002). Archaeological Conclusions from the Sheguiandah Site Research. In P. Julig, The Sheguiandah Site: Archeological, geological and palaeobotanical studies at a Paleoindian site on Manitoulin Island, Ontario. Hull, Quebec: Canadian Museum of History.

Migizi, G., & Kapyrka, J. (2015). Before, During, and After: Mississauga Presence in the Kawarthas. In D. Verhulst, Peterborough Archaeology (pp. 127-136). Peterborough, Ontario: Peterborough Chapter of the Ontario Archaeological Society.

Mississauga Heritage (2012). Heritage Guide of Mississauga. Mississauga, Ontario.

Noble, W.C. (1975). Van Besien: A Study in Glen Meyer Development. Ontario Archaeology 24: pp. 3-83.

Ontario, Government of. (2018). Map of Ontario Treaties and Reserves. Retrieved from: https://www.ontario.ca/page/map-ontario-treaties-and-reserves

Pope, J.H. (1877). Illustrated Historical Atlas of the County of Peel, Ontario. Toronto, Ontario: Walker & Miles.

Ramsden, P.G. (1990). The Hurons: Archaeology and Culture History. In The Archaeology of Southern

Ontario to A.D. 1650, Ed C.J. Ellis and N. Ferris, pp. 361-384. Occasional Publication of the London

Chapter, OAS No. 5. London: Ontario Archaeology Society.

Ramsden, P. (1998). Laurentian Archaic in the Kawartha Lakes and Haliburton. In P. J. Woodley, P. Ramsden, P. J. Woodley, & P. Ramsden (Eds.), Preceramic Southern Ontario (pp. 141-147). Dundas, Ontario: Copetown Press.

Riendeau, R.E. (1985). Mississauga: An Illustrated History. Windsor Publications, Ltd.

Riendeau, R. (2002). Settlement and Lost Villages: A History of Toronto Township. In Mississauga: The First 10,000 Years, Frank A. Dieterman, ed. Eastendbooks, Toronto.

Shanahan, Dr. David. (2021). Head of Lake Purchase. Retrieved from: https://anishinabeknews.ca/2021/09/23/head-of-the-lake-purchase/

Smith, D. G. (1990). Iroquoian Societies in Southern Ontario: Introduction and Historic Overview. In C.J. Ellis & N. Ferris (Eds.) The Archaeology of Southern Ontario to A.D. 1650 (pp. 279-290). London, Ontario: London Chapter, Ontario Archaeological Society.

Spence, M.W., R.H. Phil, and C. Murphy. (1990). Cultural Complexes of the Early and Middle Woodland Periods. In the Archaeology of Southern Ontario to A.D. 1650, Ed C.J. Ellis and N. Ferris, pp. 125-170. Occasional Publication of the London Chapter, OAS No. 5. London: Ontario Archaeology Society.

Steckley, John. L. (1987). Tonanche: Champlain Arch March/April Not Where Landed? Arch Notes pp.29-33.

United Nations. (2007). United Nations Declaration of the Rights of Indigenous Peoples. Retrieved from: http://www.un.org/development/desa/indigenouspeoples/wp-content/uploads/sites/19/2018/11/UNDRIP_E_web.pdf

University of Toronto. (1954). Aerial.

University of Toronto. (n.d.). Toronto Treaties Map. Retrieved from: https://www.history.utoronto.ca/sites/history.utoronto.ca/files/images/Toronto%20Treaties%20Map_0.pdf

Warrick, G. (2000). The Precontact Iroquoian Occupation of Southern Ontario. Journal of World Prehistory 14(4):415-456.

Warrick, G. (2012). Buried Stories: Archaeology and Aboriginal Peoples of the Grand River, Ontario. Journal of Canadian Studies 46(2): 153-177.

Williamson, R.F. (1990). The Early Iroquoian Period of Southern Ontario. In C.J. Ellis & N. Ferris (Eds.) The Archaeology of Southern Ontario to A.D. 1650 (pp. 291-320). London, Ontario: London Chapter, Ontario Archaeological Society.

PROVINCIAL STANDARDS AND RESOURCES

Government of Ontario. (2005). *Ontario Heritage Act*. Retrieved from: www.ontario.ca/laws/statute/90o18

Government of Ontario. (1990). *Environmental Assessment Act*. Retrieved from: www.ontario.ca/laws/statute/90e18

Ministry of Municipal Affairs and Housing. (2020). *Provincial Policy Statement*. Retrieved from: www.ontario.ca/page/provincial-policy-statement-2020

Ministry of Heritage, Sport, Tourism and Culture Industries. (2017). *Information Bulletin 3: Heritage Impact Assessments for Provincial Heritage Properties*.

Ministry of Heritage, Sport, Tourism and Culture Industries. (2014). *Standards and Guidelines for Conservation of Provincial Heritage Properties: Heritage Identification & Evaluation Process.* Retrieved from: www.mtc.gov.on.ca/en/heritage/MHSTCI_Heritage_IE_Process.pdf

Ministry of Heritage, Sport, Tourism and Culture Industries. (2010). *Standards and Guidelines for Conservation of Provincial Heritage Properties*. Retrieved from: www.mtc.gov.on.ca/en/publications/Standards_Conservation.pdf

Ministry of Tourism, Culture and Sport. (2016). *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes*. Retrieved from: www.forms.ssb.gov.on.ca/mbs/ssb/forms/ssbforms.nsf/MinistryDetail?OpenForm&ACT=RDR&TAB=PROFILE&ENV=WWE&NO=021-0500E

Ministry of Tourism, Culture and Sport. (2007). *Eight Guiding Principles in the Conservation of Historic Properties*. Retrieved from: www.mtc.gov.on.ca/en/publications/InfoSheet_8%20Guiding_Principles.pdf

Ministry of Tourism, Culture and Sport. (2006). *Heritage Resources in the Land Use Planning Process*. Retrieved from: www.mtc.gov.on.ca/en/publications/Heritage_Tool_Kit_Heritage_PPS_infoSheet.pdf

Ministry of Tourism, Culture and Sport. (2006). *Ontario Heritage Tool Kit*. Retrieved from: www.mtc.gov.on.ca/en/heritage/heritage_toolkit.shtml

Ontario, Government of. (2005). *Ontario Heritage Act*. Retrieved from: www.ontario.ca/laws/statute/90o18

Ontario Heritage Trust. (2021). *Provincial Plaque Program Database*. Retrieved from: www.heritagetrust.on.ca/en/pages/programs/provincial-plaque-program

National and International Standards and Resources

International Council of Monuments and Sites (ICOMOS). (1983). *Appleton Charter.* Retrieved from: www.international.icomos.org/charters/appleton.pdf

Parks Canada. (2020b). *Canadian Register of Historic Places*. Retrieved from: www.historicplaces.ca/visit-visite/rep-reg_e.aspx

Parks Canada. (2010). *Standards and Guidelines for the Conservation of Historic Places in Canada*. Retrieved from: www.pc.gc.ca/docs/pc/guide/nldclpc-sgchpc/index_E.asp

APPENDIX A

Figure 1 - 10

ROSEMERE SPS

HIAWATHA SPS

ELMWOOD SPS

KEY MAP

SCALE 1:200,000

LEGEND

- PROPOSED SHAFT LOCATION (2023 DATA)
- ROAD
- RAILWAY
- WATERCOURSE
- PARCEL BOUNDARY
- STUDY AREA BOUNDARY (2023 DATA)
- PROPOSED ROSEMERE FOOTPRINT
- PROPOSED STAGING AREA
- PROPOSED TUNNELLING SHAFT
- TEMPORARY WALKWAY

1:12,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
   SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LIMITED

PROJECT

CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT: PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
PORT CREDIT, MISSISSAUGA, ONTARIO

TITLE

PROJECT LOCATION

CONSULTANT

wsp

YYYY-MM-DD	2023-08-23
DESIGNED	RF
PREPARED	MG
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	MAP
19129019	0021	A	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PRO\19129019_GMBP_SPS_EA\40_PROD\0021_CHR_Impact_Assessment\19129019-0021-HC-0001.mxd PRINTED ON: 2023-08-23 AT: 7:09:07 PM

KEY MAP

SCALE 1:200,000

LEGEND

- ROAD
- RAILWAY
- STUDY AREA BOUNDARY (2023 DATA)

1:9,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. ILLUSTRATED HISTORICAL ATLAS FOR THE COUNTY OF PEEL
3. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT: PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
PORT CREDIT, MISSISSAUGA, ONTARIO

TITLE
1877 MAP

CONSULTANT

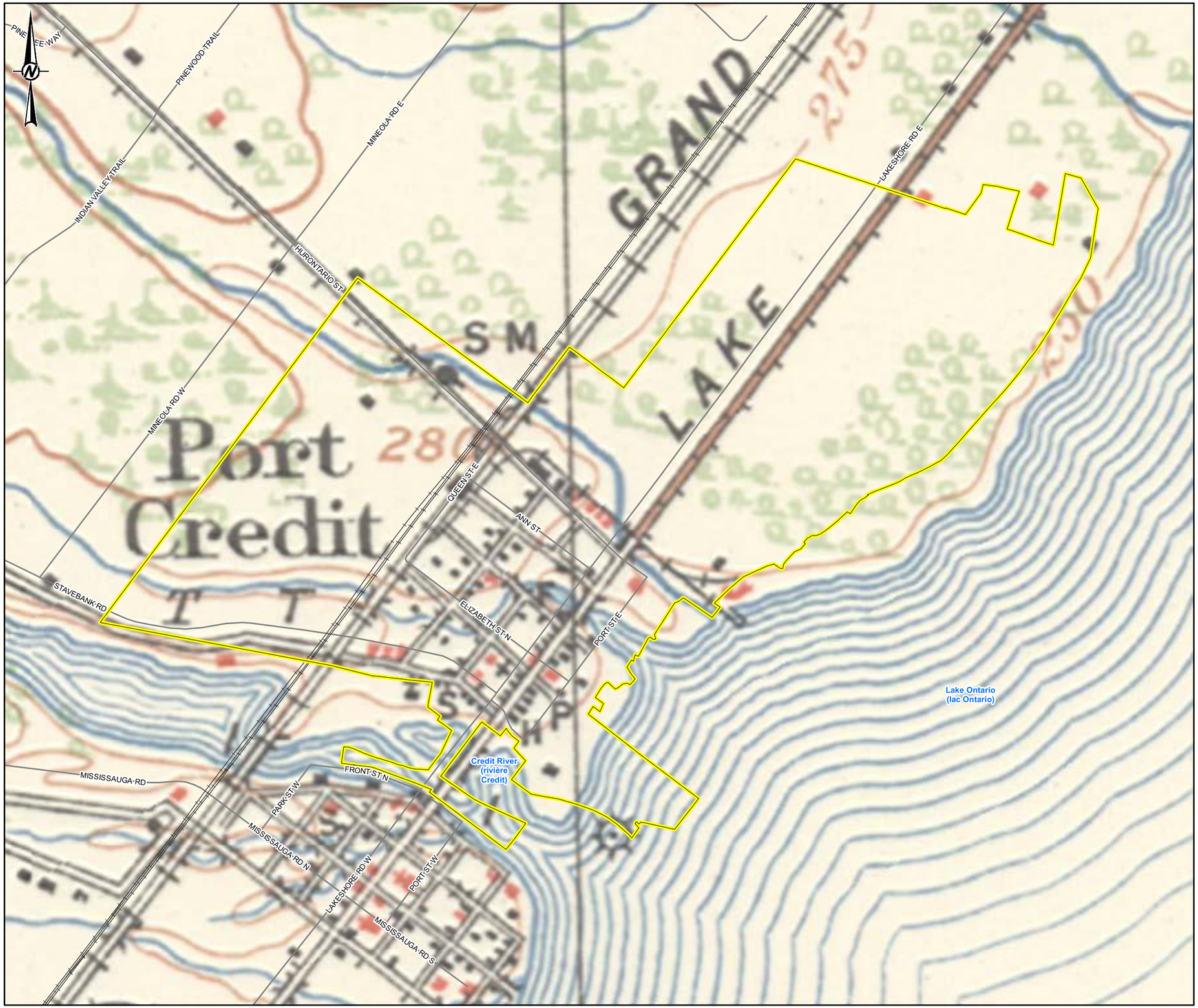
YYYY-MM-DD	2023-08-23
DESIGNED	RF
PREPARED	MG
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	MAP
19129019	0021	A	2

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0021_CHR_Impact_Assessment\19129019-0021-HC-0002.mxd PRINTED ON: 2023-08-23 AT: 7:09:57 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm



KEY MAP

SCALE 1:200,000

LEGEND

- ROAD
- RAILWAY
- STUDY AREA BOUNDARY (2023 DATA)

1:9,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. TOPOGRAPHIC MAP: DEPARTMENT OF MILITIA AND DEFENCE, SHEET 030M12
3. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT: PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
PORT CREDIT, MISSISSAUGA, ONTARIO

TITLE
1909 TOPOGRAPHIC MAP

CONSULTANT

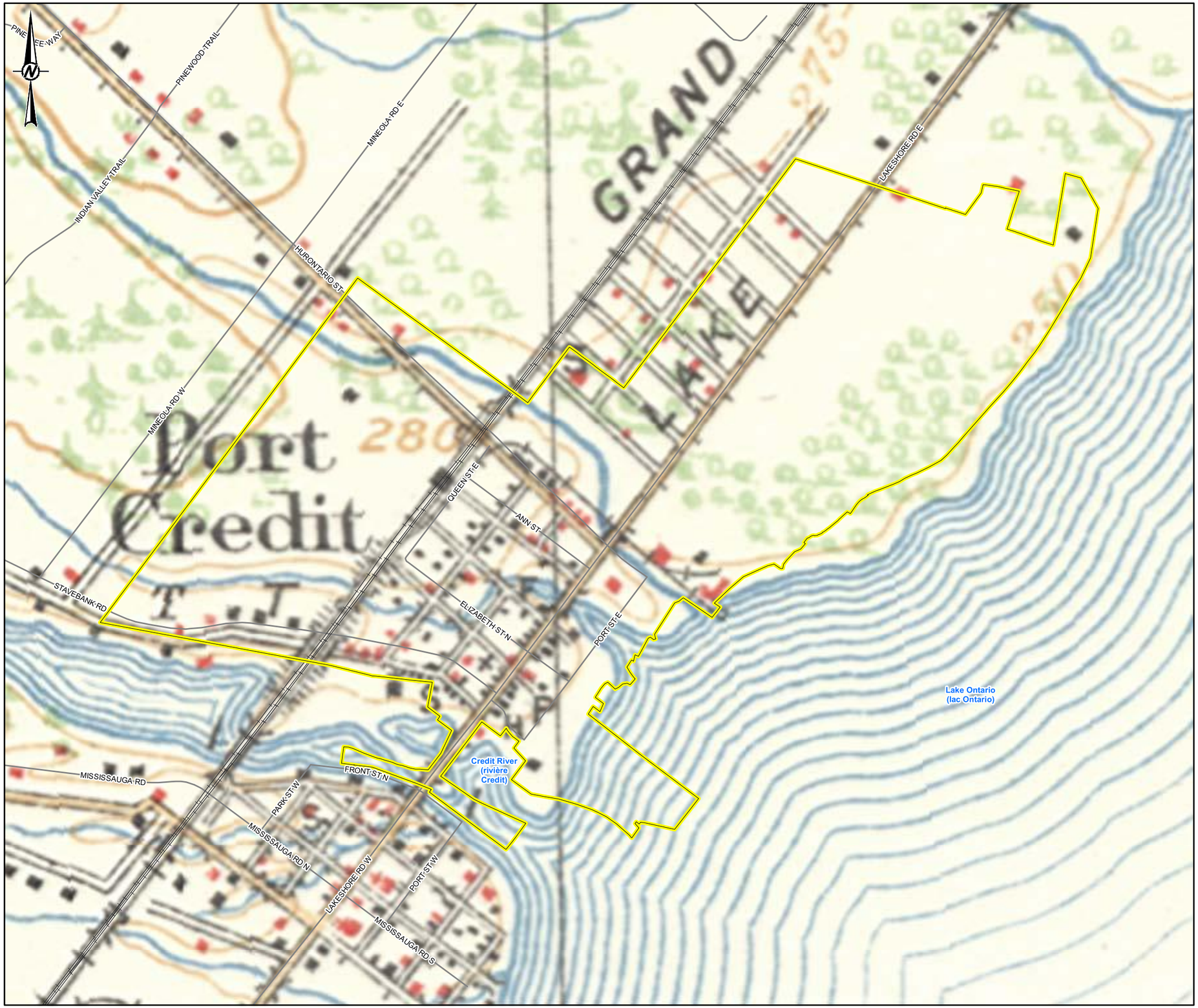
YYYY-MM-DD	2023-08-23
DESIGNED	RF
PREPARED	MG
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	MAP
19129019	0021	A	3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0021_CHR_Impact_Assessment\19129019-0021-HC-0003.mxd PRINTED ON: 2023-08-23 AT: 7:11:36 PM



KEY MAP

SCALE 1:200,000

LEGEND

- ROAD
- RAILWAY
- STUDY AREA BOUNDARY (2023 DATA)

1:9,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. TOPOGRAPHIC MAP: DEPARTMENT OF NATIONAL DEFENCE, SHEET 030M12
3. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT: PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
PORT CREDIT, MISSISSAUGA, ONTARIO

TITLE
1922 TOPOGRAPHIC MAP

CONSULTANT

YYYY-MM-DD	2023-08-23
DESIGNED	RF
PREPARED	MG
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	MAP
19129019	0021	A	4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0021_CHR_Impact_Assessment\19129019-0021-HC-0004.mxd PRINTED ON: 2023-08-23 AT: 7:13:12 PM

KEY MAP

SCALE 1:200,000

LEGEND

- ROAD
- RAILWAY
- STUDY AREA BOUNDARY (2023 DATA)

1:9,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. TOPOGRAPHIC MAP: DEPARTMENT OF MILITIA AND DEFENCE, SHEET 030M12
3. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT: PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
PORT CREDIT, MISSISSAUGA, ONTARIO

TITLE
1931 TOPOGRAPHIC MAP

CONSULTANT

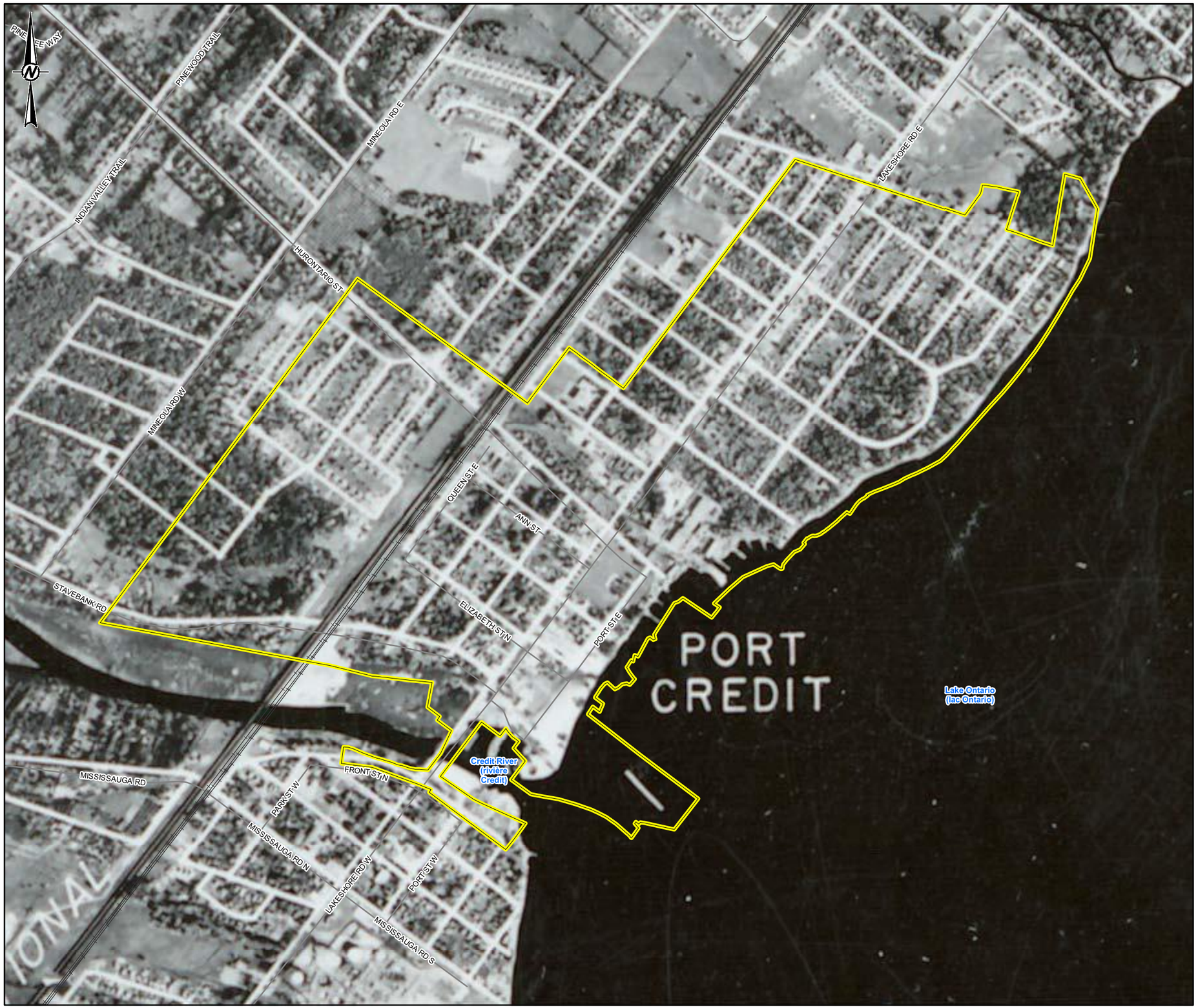
YYYY-MM-DD	2023-08-23
DESIGNED	RF
PREPARED	MG
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	MAP
19129019	0021	A	5

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0021_CHR_Impact_Assessment\19129019-0021-HC-0005.mxd PRINTED ON: 2023-08-23 AT: 7:14:35 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm



KEY MAP

SCALE 1:200,000

LEGEND

- ROAD
- RAILWAY
- STUDY AREA BOUNDARY (2023 DATA)

1:9,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. 1954 AERIAL: UNIVERSITY OF TORONTO
3. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT: PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
PORT CREDIT, MISSISSAUGA, ONTARIO

TITLE
1954 AERIAL

CONSULTANT

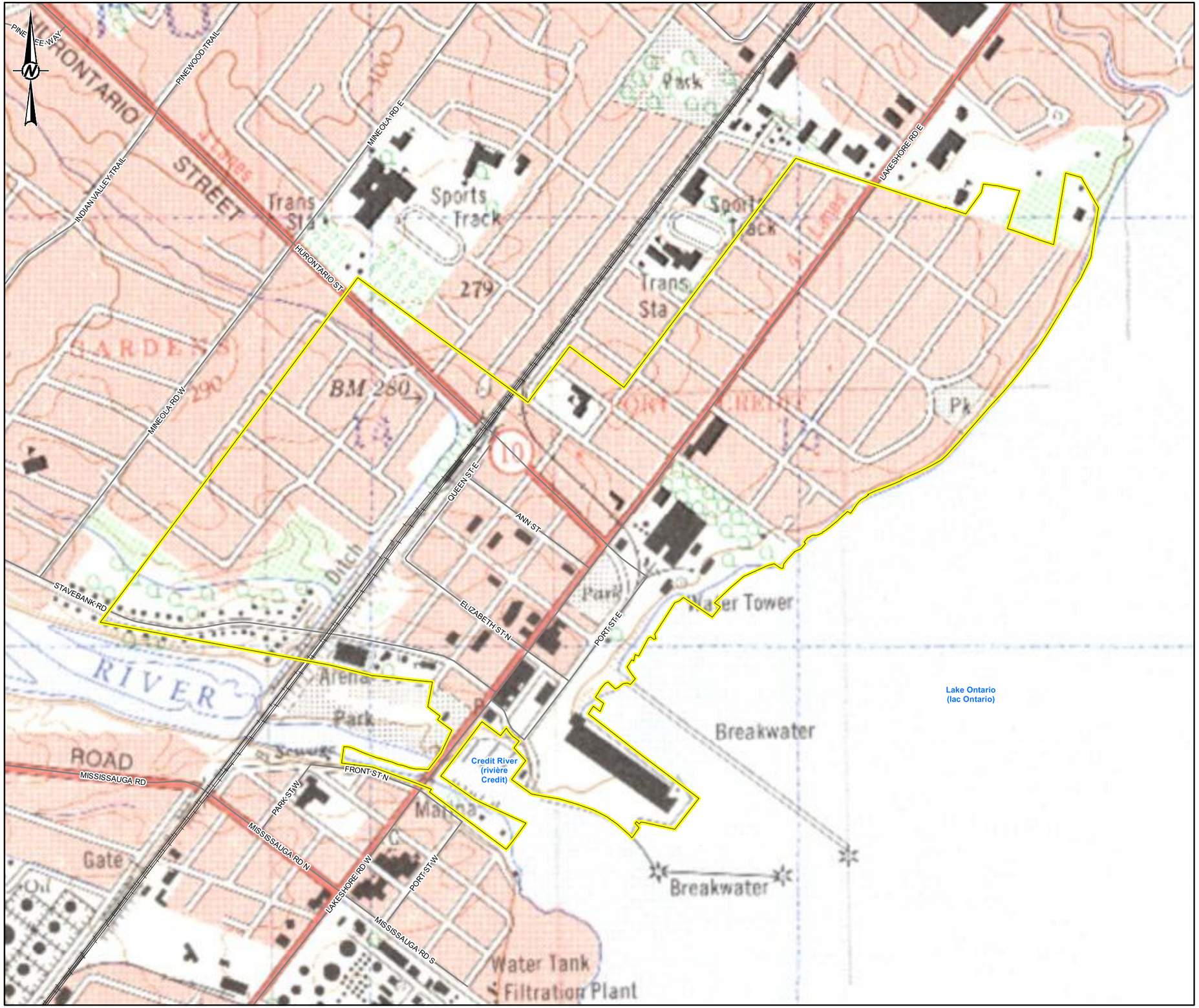
YYYY-MM-DD	2023-08-23
DESIGNED	RF
PREPARED	MG
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	MAP
19129019	0021	A	6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0021_CHR_Impact_Assessment\19129019-0021-HIC-0006.mxd PRINTED ON: 2023-08-23 AT: 7:15:53 PM



KEY MAP

SCALE 1:200,000

LEGEND

- ROAD
- RAILWAY
- STUDY AREA BOUNDARY (2023 DATA)

1:9,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. TOPOGRAPHIC MAP: DEPARTMENT OF ENERGY, MINES AND RESOURCES, SHEETS 030M12A AND 030M11D
3. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT: PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
PORT CREDIT, MISSISSAUGA, ONTARIO

TITLE
1974 TOPOGRAPHIC MAP

CONSULTANT

wsp

YYYY-MM-DD	2023-08-23
DESIGNED	RF
PREPARED	MG
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	MAP
19129019	0021	A	7

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PRO\0021_CHR_Impact_Assessment\19129019-0021-HC-0007.mxd PRINTED ON: 2023-08-23 AT: 7:16:55 PM

KEY MAP

SCALE 1:200,000

LEGEND

- ROAD
- RAILWAY
- STUDY AREA BOUNDARY (2023 DATA)

1:9,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. TOPOGRAPHIC MAP: DEPARTMENT OF ENERGY, MINES AND RESOURCES, SHEET 030M12
3. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT: PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
PORT CREDIT, MISSISSAUGA, ONTARIO

TITLE
1994 TOPOGRAPHIC MAP

CONSULTANT

YYYY-MM-DD	2023-08-23
DESIGNED	RF
PREPARED	MG
REVIEWED	----
APPROVED	----

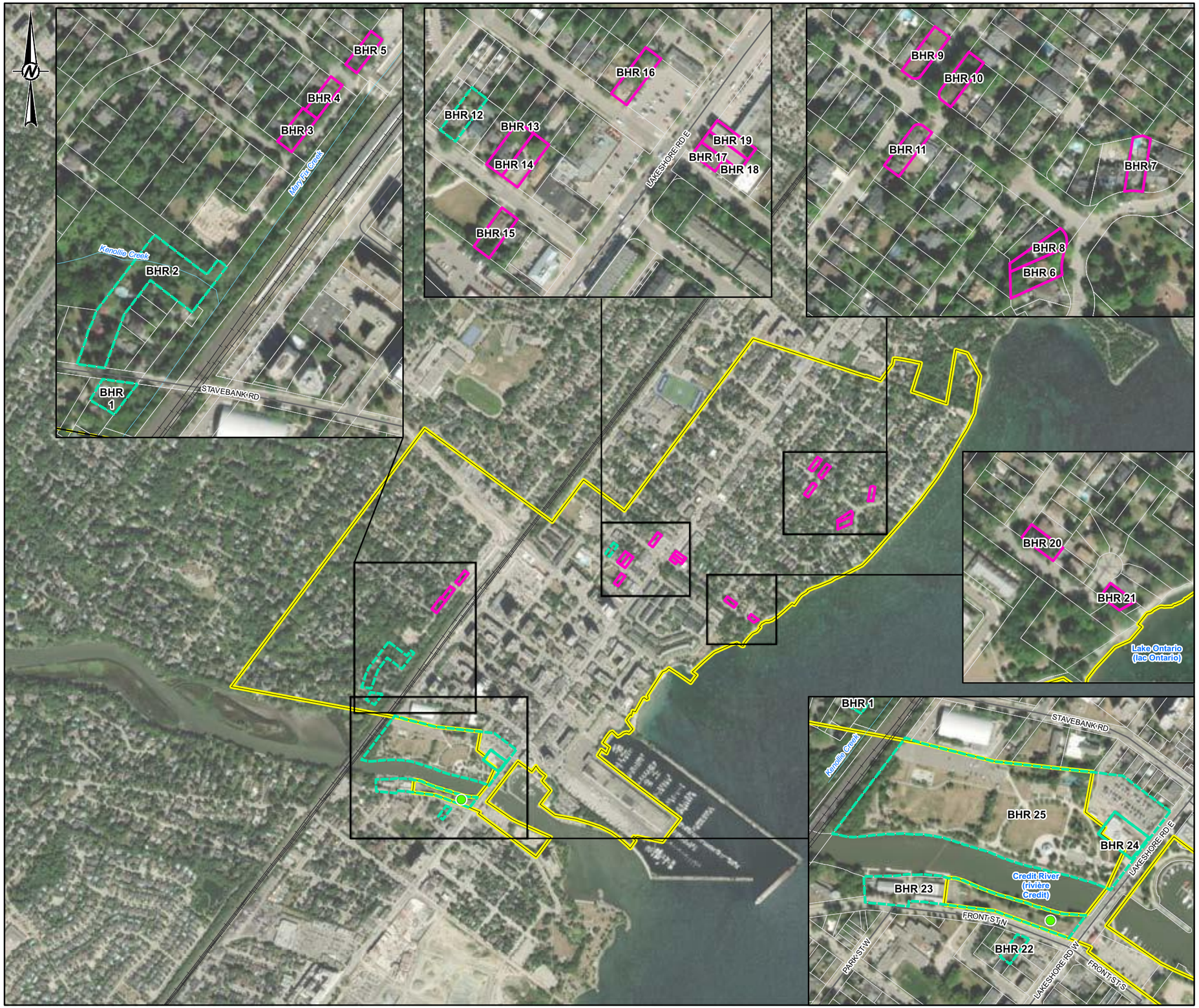
PROJECT NO.	CONTROL	REV.	MAP
19129019	0021	A	8

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0021_CHR_Impact_Assessment\19129019-0021-HIC-0008.mxd PRINTED ON: 2023-08-23 AT: 7:17:46 PM



KEY MAP

SCALE 1:200,000

LEGEND

- APPROXIMATE PLAQUE LOCATION
- RAILWAY
- PARCEL BOUNDARY
- STUDY AREA BOUNDARY (2023 DATA)
- LISTED ON THE HERITAGE REGISTER BUT NOT DESIGNATED
- POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)

1:12,000 METRES

NOTE(S)

ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT: PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
PORT CREDIT, MISSISSAUGA, ONTARIO

TITLE
BUILT HERITAGE RESOURCE RESULTS

CONSULTANT

YYYY-MM-DD	2023-08-24
DESIGNED	RF
PREPARED	MG
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	MAP
19129019	0021	A	9

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0021_CHR_Impact_Assessment\19129019-0021-HIC-0009.mxd PRINTED ON: 2023-08-24 AT: 10:51:04 AM

KEY MAP

SCALE 1:225,000

LEGEND

- RAILWAY
- STUDY AREA BOUNDARY (2023 DATA)
- DESIGNATED UNDER PART V
- LISTED ON THE CITY OF MISSISSAUGA'S INVENTORY OF CULTURAL HERITAGE LANDSCAPES
- POTENTIAL CULTURAL HERITAGE VALUE OR INTEREST (CHVI)

1:12,000 METRES

NOTE(S)

ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
GM BLUEPLAN ENGINEERING LIMITED

PROJECT
CULTURAL HERITAGE REPORT: EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT: PORT CREDIT EAST WASTEWATER SERVICING OPTIMIZATION STRATEGY
PORT CREDIT, MISSISSAUGA, ONTARIO

TITLE
CULTURAL HERITAGE LANDSCAPE RESULTS

CONSULTANT

wsp

YYYY-MM-DD	2023-08-24
DESIGNED	RF
PREPARED	MG
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	MAP
19129019	0021	A	10

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: S:\Clients\Region_of_Peel\Elmwood_Hiawatha_SPS\99_PROJ\19129019_GMBP_SPS_EA\40_PROD\0021_CHR_Impact_Assessment\19129019-0021-HIC-0010.mxd PRINTED ON: 2023-08-24 AT: 11:05:06 AM

wsp.com

2F

Region of Peel

APPENDIX 2F

ENVIRONMENTAL SITE ASSESSMENT (ESA)

Prepared By:

Region Of Peel

Phase One Environmental Site Assessment for Schedule "C" MCEA Port Credit East Water and Wastewater Servicing Optimization Strategy

GMBP File: 719033

November 1, 2022

DRAFT

Region of Peel
working with you

GUELPH | OWEN SOUND | LISTOWEL | KITCHENER | LONDON | HAMILTON | GTA
650 WOODLAWN RD. W., BLOCK C, UNIT 2, GUELPH ON N1K 1B8 P: 519-824-8150
WWW.GMBLUEPLAN.CA

EXECUTIVE SUMMARY

A Phase One Environmental Site Assessment (ESA) has been completed for eight (8) Sites (the Sites) selected for proposed construction of shafts to facilitate capacity improvements for the Port Credit water and wastewater system. These Sites are located throughout the south part of the City of Mississauga within the Port Credit East area.

This report has been completed as a due-diligence technical study to support the Municipal Class Environmental Assessment (MCEA) process. As it is the understanding of the assessors (GM BluePlan) that no Record of Site Condition (RSC) will be required, this ESA has not been prepared for the intention of supporting an application for RSC to the Ministry of the Environment, Conservation and Parks (MECP).

The Phase One ESA was conducted with regard to each of the proposed shaft Sites as well as the area enclosed by a search buffer extending 100 m beyond the Site boundaries (i.e., the study area) and neighbouring lands. This Phase One ESA involved the review of numerous sources of information available from public sources and from the Region of Peel (the Client). Sources included:

- Topographic, surficial geological, MECP water well record mapping and database information
- Environmental database report from ERIS
- Limited City Directory search for select properties
- Aerial photographs
- MECP Freedom of Information records
- Fire Insurance Plans
- Site reconnaissance, and others.

The review of information identified numerous potentially contaminating activities (i.e., PCAs) within the study area. The majority of these PCAs are related to the historical or current existence of fuel storage tanks or automotive service stations and the historical occurrence of spills of potential contaminants of concern (PCOCs). Other identified PCAs include historical industrial activities, including a former starch production facility (with documented historical presence of fuel storage). The potential presence of imported fill of unknown quality was identified as a PCA for each of the Sites due to their location in a historically developed portion of the City.

The identified PCAs were assessed to determine whether the environmental risk associated with these activities was sufficient enough to be considered an Area of Potential Environmental Concern (APEC) to the subject Sites. Several of the APECs are due to PCAs that occurred at off-Site locations. Where a PCA was identified to have occurred on a proposed shaft Site, it was immediately considered to be an APEC.

The table below (see next page, also provided as Table 6 in the report) provides a summary of the identified APECs, as well as a brief description of the precipitating PCA ("Activity"), the affected Sites, the affected environmental media, and the potential contaminants of concern (PCOCs) which may be present at the Site as a result of the PCA.

Based on the APECs identified, it has been recommended that additional investigation (i.e., in the form of a Phase Two Environmental Site Assessment and/or soil quality sampling for the purposes of Excess Soil Management Plan in accordance with O. Reg. 406/19) be conducted to achieve the following objectives:

- Determine with greater certainty whether the potential impacts are present,
- Assess how the impacts may affect construction activities such as dewatering, and
- Provide soil quality assessment for the purposes of developing an Excess Soil Management Plan.

DRAFT

Table 6: Areas of Potential Environmental Concern

#	Address/ Operation	Activity	Affected Site(s)	Affected Media	PCOCs
1	20 Rosewood Ave. (Harold E Kennedy Park)	Fuel Spills Fuel Tank	LAK_3 (due to downgradient / crossgradient location	Groundwater	BTEX, PHCs F1-F4
2	160 Lakeshore Rd. E. (Midas)	Automotive Repair Garage and historic gasoline service station	LAK_3 (due to short separation distance and cross- gradient location)	Groundwater	BTEX PHCs F1-F4, VOCs
3	170 Lakeshore Road E.	Historical Gasoline Service Station and Automotive Repair Garage	LAK_3 (due to short separation distance and cross-gradient location)	Groundwater	BTEX PHCs F1-F4, VOCs
4	141 Lakeshore Rd. E. Part of a storage yard for large industrial facility (St. Lawrence Starch Co. Ltd.)	Historic industrial facility, underground fuel tanks, multiple railway spurs, ERIS records of multiple ASTs.	LAK_3, (due to short separation distance and cross-gradient location); ELM_5 and ELM_6 (short separation distance and upgradient location)	Soil / Groundwater	Soil (Metals PAHs) Groundwater (BTEX, PHCs, VOCs)
5	3 Elmwood Ave. N.	Historic "Used Car Lot" (1952 FIP)	LAK_3 (on-Site)	Soil / Groundwater	Soil (Metals PAHs) Groundwater BTEX, PHCs, VOCs
6	76 Cumberland Dr. (Hiawatha SPS)	Fuel Tank	HIA_8 (on-Site)	Soil / Groundwater	BTEX, PHCs F1-F4
7	60 Elmwood Ave. S. (Elmwood SPS)	Fuel Tank	ELM-5 and ELM-6 (due to short separation distance and cross-gradient location)	Soil / Groundwater	BTEX, PHCs F1-F4
8	182 Rosemere Rd. (Rosemere SPS)	Fuel Tank	ROS_1 (on-Site)	Soil / Groundwater	BTEX, PHCs F1-F4
9	NA	Imported Fill (on-Site)	All sites	Soil	Metals PAHs

Besides the above-mentioned APECs relevant to the shaft sites, it is noted that additional PCAs have been identified within the greater study area which may be of interest to the selection of the preferred alignment for the proposed linear works (Figures 5 a to 5e). Furthermore, as the scope of this ESA was limited to a certain study area based on the location of the proposed shaft sites, there may be additional PCAs not identified herein but which may be relevant to the linear works. Once the preferred alignment of the linear works is selected, a fulsome Phase One Environmental Site Assessment (and subsequent site investigation as applicable) for that alignment is recommended.

DRAFT

TABLE OF CONTENTS

1. INTRODUCTION 1
1.1 Site Location and Property Information 1
1.2 Property Ownership 2
2. SCOPE OF INVESTIGATION 2
3. RECORDS REVIEW 4
3.1 Phase One Study Area 4
3.2 First Developed Use 4
3.3 Fire Insurance Plans 5
3.4 City Directory Search 7
3.5 MECP Waste Disposal Site Inventory 9
3.6 Region of Peel Waste Disposal Site Information 9
3.7 Region of Peel Spills Records 10
3.8 MECP Freedom of Information Request 10
3.9 Other Environmental Reports 11
3.10 Environmental Database Search (ERIS Report) 12
3.11 Physical Setting 15
3.11.1 Aerial Photographs 15
3.11.2 Topography, Hydrology, Geology 17
3.11.3 Water Bodies, Areas of Natural and Scientific Significance and Significant Wetlands 18
3.11.4 Fill Materials 19
3.11.5 Water Well Records 19
4. INTERVIEWS 20
5. SITE RECONNAISSANCE 20
5.1 Site Observations 20
5.2 Observations at Adjacent Properties 22
6. REVIEW AND EVALUATION OF INFORMATION 24
6.1 Identification and Evaluation of Potentially Contaminating Activities 24
6.1.1 Waste Disposal Sites 24
6.1.2 Records of Site Condition (RSC) 25
6.1.3 Spills 25
6.1.4 Tanks of Fuel and Associated Products 26
6.1.5 Automotive/Transport Systems Maintenance or Service Shops 28
6.1.6 Imported Fill of Unknown Quality 28
6.1.7 Drycleaners 28
6.1.8 Former Use Related to Commercial Auto Sales 29
6.2 Summary of Areas of Potential Environmental Concern and Conceptual Model 29

DRAFT

6.3 Linear Works 31
7. CONCLUSIONS 32
8. RECOMMENDATIONS 32
9. STATEMENT OF LIMITATIONS 33
10. REFERENCES 34

APPENDICES

APPENDIX A1: FIRE INSURANCE PLANS SUMMARY
APPENDIX A2: FIRE INSURANCE PLANS
APPENDIX B1: ERIS REPORT SUMMARY
APPENDIX B2: ERIS REPORT
APPENDIX C: AERIAL PHOTOGRAPH SUMMARY
APPENDIX D: CITY DIRECTORY
APPENDIX E: TECHNICAL STANDARDS AND SAFETY AUTHORITY
APPENDIX F: REGION OF PEEL SPILL RECORDS
APPENDIX G: FREEDOM OF INFORMATION RECORDS
APPENDIX H: MECP WELL RECORDS
APPENDIX I: SELECT SITE PHOTOGRAPHS
APPENDIX J: NEIGHBOURING PROPERTY DETAILS

DRAFT

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT FOR SCHEDULE "C" MCEA PORT CREDIT EAST WATER AND WASTEWATER SERVICING OPTIMIZATION STRATEGY

REGION OF PEEL

NOVEMBER 1, 2022

GMBP FILE: 719033

DRAFT

1. INTRODUCTION

The Region of Peel (the Region) have retained GM BluePlan Engineering Limited (GMBP) to undertake a Schedule "C" Municipal Class Environmental Assessment (MCEA) to identify, develop and implement an integrated water and wastewater optimization strategy for Port Credit East to support existing servicing needs and projected growth in the area.

The Class EA study area (hereafter referred to as the greater MCEA study area) includes the combined servicing areas for the Elmwood Sewage Pumping Station (SPS), Hiawatha SPS, Rosemere SPS and extends along Lakeshore Road East from Front Street on the west side of the Credit River to Seneca Avenue. The greater MCEA study area falls within Municipal Ward 1 in the City of Mississauga.

As part of this undertaking, this Phase One Environmental Site Assessment (ESA) report has been prepared to assist the MCEA Team to support the decision-making process as well as to provide insight as to the potential to encounter impacted environmental media (i.e., soil and groundwater) at eight (8) short-listed proposed shaft/ construction compound locations (hereafter referred to as "Sites" and adjacent lands (here after referred to as the "study area" which generally consists of about 100 m search radius from the Sites).

This Phase One ESA was undertaken to identify potential and/or actual environmental concerns or risks associated with the Sites which may have resulted from current or historical land uses on the Sites or neighbouring properties. It is our understanding that this Phase One ESA is being conducted to support the selection of preferred alternatives to achieve certain water and wastewater system upgrade/capacity expansion objectives. This Phase One ESA is not intended to support an application for Record of Site Condition per Ontario Regulation (O. Reg.) 153/04 (as amended). However, it is understood that some of the Sites are owned by parties other than the Region and so the preferred solution may involve property transfer and/or easement creation.

1.1 Site Location and Property Information

Currently, the preferred alternative for the improvements to the water and wastewater system includes eight (8) proposed shaft/construction compound locations on lands within the greater MCEA study area which also include the existing Elmwood, Rosemere and Hiawatha SPS properties and vicinity (the "Sites") as shown on Figure 1 and described in Table 1 below. These ESA Sites are located within the City of Mississauga (Geographic Township of Toronto).

Table 1: Potential Shaft Sites and Site Location Information

Site ID	Site Location	Current Use
ROS_1	Rosemere SPS (182 Rosemere Road) - Rosemere Road (between Stavebank Road and Kenollie Creek)	Region of Peel SPS Rosemere Road right-of-way
ROS_2	Sandham Road (between Mona Road and Vesta Road)	Sandham Road right-of-way
LAK_3	3 Elmwood Avenue North	Municipal parking lot
ELM_4	Elmwood Avenue South and Wanita Road	Elmwood Avenue South and Wanita Road right-of-ways
ELM_5	75 St. Lawrence Drive (St. Lawrence Park)	City Park
ELM_6	Adjacent to Elmwood SPS property (60 Elmwood Avenue South), Tall Oaks Park, west of Carlis Place	City Park adjacent to Region of Peel SPS
HIA_7	Hiawatha Parkway and Wanita Road	Hiawatha Parkway and Wanita Road right-of-ways
HIA_8	Hiawatha SPS (76 Cumberland Drive), Hiawatha Park, south of Hiawatha Parkway Cumberland Drive	Region of Peel SPS City Park

1.2 Property Ownership

Several of the Sites cross property lines and have multiple owners as listed below:

- Site ROS_1: City of Mississauga (right-of-way), Region of Peel (SPS property), private owners (portion of undeveloped private property)
- Site ROS_2: City of Mississauga (right-of-way)
- Site LAK_3: City of Mississauga (municipal parking lot)
- Site ELM_4: City of Mississauga (right-of-way)
- Site ELM_5: City of Mississauga (St. Lawrence Park)
- Site ELM_6: Region of Peel (SPS property), City of Mississauga (right-of-way and Tall Oaks Park)
- Site HIA_7: City of Mississauga
- Site HIA_8: Region of Peel (SPS property), City of Mississauga (Hiawatha Park)

2. SCOPE OF INVESTIGATION

The Phase One ESA was conducted in general accordance with the guidelines of the Canadian Standards Association (CSA) as presented in Report No. Z768-01, Phase One Environmental Site Assessment (reaffirmed 2016) as well as with reference to Ontario Regulation 153/04 (as amended), where appropriate. The purpose of a Phase One ESA is to identify actual and potential environmental concerns or risks associated with the Sites. These environmental concerns may be the result of current or historical potentially contaminating activities (PCAs) and uses of the Sites or surrounding properties. It is our understanding that this Phase One ESA is

conducted as a due-diligence investigation and that a Record of Site Condition is not required to be filed for any of the Sites included in this Phase One ESA.

The Phase One ESA process involves review of documents, maps, and other recorded information in conjunction with the observations of a reconnaissance visit to the Sites by the Assessor. Based on the information gathered, an assessment of the potential environmental concerns can be made and, if warranted, recommendations offered for further investigation. A brief description of the records reviewed, and the reconnaissance visit follows. Interviews with current Owners of the Sites were not conducted as part of this process. During the site reconnaissance of the Region of Peel SPSs (Elmwood, Hiawatha and Rosemere SPSs), Region of Peel Operations staff facilitated the Site visits.

Fire Insurance Plans (FIPs) for the Sites and the ESA study area were requested through ERIS from Opta Information Intelligence (Opta). Select FIPs from a previous ESA completed by Stantec in 2021 for the Region of Peel, for lands partially within the current ESA study area, were also reviewed. Where coverage is available, the FIPs were reviewed to assess historical ownership and uses of the Sites and the vicinity. Summary of FIP observations is enclosed in Appendix A1 with select FIPs enclosed in Appendix A2.

The Ministry of the Environment, Conservation and Parks (MECP) Waste Disposal Site Inventory (MECP 1991) was reviewed to identify closed and active waste disposal sites in the vicinity of the Sites. The Region of Peel Official Plan Waste Management Site mapping was reviewed, and additional information was obtained from Region of Peel Infrastructure, Waste Management Department files regarding locations of closed and active waste disposal sites in the vicinity of the Sites. Summary of waste disposal site information is presented in Section 3.5 and 3.6.

An environmental risk report was requested from ERIS (ERIS report) to review available historical and environmental records and provide information on reported spills, registered waste generators, fuel storage tanks among other databases of environmental significance. The ERIS report covered a search area extending at a 100 m radius from the boundaries of the Sites and adjoining properties/right-of-ways (here after referred to as the study area). A set of review notes that summarizes the ERIS report and highlights key findings is provided in Appendix B1. The ERIS Report is provided in Appendix B2.

Aerial photographs dating back to 1954 available for the Study area from the Mississauga Maps online GIS were reviewed. Aerial photographs from each available decade were reviewed, specifically years 1954, 1966, 1975, 1985, 1997, 2007, and 2017. A summary of observations from these aerial photo reviews is provided in Appendix C.

A search of the City Directory records for selected properties in the study area was requested from Environmental Risk Information Services (ERIS) to ascertain occupancy for the selected Sites and surrounding properties. The City Directory search is provided in Appendix D.

The Fuels Safety Division of the Technical Standards and Safety Authority (TSSA) was contacted for review of their records on underground and aboveground fuel storage tanks on the Sites and on select neighbouring properties. The TSSA responses are included in Appendix E.

Background available environmental records for lands within the study area were requested from the Region of Peel. Received information is summarized in Section 3.7 and copies of provided spill records are included in Appendix F.

A selection of relevant available reports from Region of Peel archives were reviewed. Select information from reviewed reports is included in Section 3.9.

A request was filed with the MECP Freedom of Information (FOI) office to acquire available records under the Freedom of Information and Protection of Privacy Act for select properties in the study area. Received records are included in Appendix G.

Background physiographic, geological, hydrogeological and topographical information for the Site and the surrounding area was assembled from several sources including the Ministry of Environment, Conservation and Parks (MECP), publications from the Ontario Geological Survey and others.

DRAFT

The MECP Record of Site Condition (RSC) Registry search provided by ERIS was reviewed to determine whether a Record of Site Condition has been submitted for the Sites or neighbouring properties. A Record of Site Condition is required to be completed as part of the process of transitioning a property of former industrial/commercial land use into one of residential, parkland, agricultural or other land use for which a more stringent environmental quality standard is applicable. As such, presence of a Record of Site Condition and associated environmental investigations for a particular property may provide information on potential for environmental impacts or risks to adjacent properties.

Water well records in the vicinity of the Sites available from the Ministry of the Environment, Conservation and Parks (MECP) (MECP 2022) were reviewed and select well records are included in Appendix H.

Reconnaissance of the Sites was completed on September 12, 2022, by Mr. Mark Ongarato, B. Sc. of GMBP. Mr. Ongarato was accompanied by Region of Peel Operations staff member during reconnaissance visits to the Region SPS facilities (Rosemere, Hiawatha and Elmwood SPSs). Mr. Ongarato was unaccompanied during the reconnaissance of the remaining Sites. Photographs of the subject Sites were taken during the reconnaissance visits and select photographs are included in Appendix I. Notes from observations of neighbouring properties are summarized in Appendix J.

3. RECORDS REVIEW

For the purpose of describing records (where appropriate), Lakeshore Road East is considered to be oriented in an east to west direction.

3.1 Phase One Study Area

The Phase One study area is a composite area that generally includes the areas within 100 m of each of the proposed construction shaft Sites as well as adjoining properties and right-of-ways. The study area boundaries are shown on Figure 1.

3.2 First Developed Use

The first developed use of each Site, as reported on available records, is listed in Table 2. For the purposes of this identification, agricultural or recreational land uses will not be listed as the “first developed use” of a Site unless that is also the present-day land use of the Site. Certain uses have been identified from aerial photos and, due to the limited resolution of the photos and difficulty discerning land use with certainty, these uses are identified as “apparent”. Approximate date of first developed use date is listed as “pre”-date of the first available reviewed record (aerial photograph or FIP) in those instances, where on the available oldest reviewed record, the property already appears as developed.

DRAFT

Table 2: First Developed Use Identified for Each Site

Site ID	First Developed Use/Record Source	Approximate Year	Notes
ROS_1 (SPS)	Right-of-Way/Greenspace (1954 aerial photograph), Rosemere SPS constructed in 1970	Between 1946 and 1954	On aerial photographs (1931 and 1946 (available in Stantec (2021), Sites appear undeveloped with what appears as early stages of residential development in general Site vicinity.
ROS_2	Right-of-Way/Greenspace	Between 1946 and 1954	
LAK_3	(Apparent) commercial use/ a parking lot, presence of structures cannot be confirmed based on low photograph resolution (1954 aerial photograph) Used Car Lot (1952 FIP)	Between 1946 and 1954	On aerial photographs (1931 and 1946, Stantec 2021) and 1928 FIP, Site appears undeveloped.
ELM_4	Right-of-way (1954 aerial photograph)	Pre-1954	On aerial 1931 photographs (Stantec 2021) Site appears undeveloped. 1946 – potential right-of-way/, not discernable.
ELM_5	Part of a storage yard for large industrial facility (St. Lawrence Starch Co. Ltd.) (1928/1952 FIP, Heritage Mississauga)	Circa 1890	
ELM_6 (SPS)	Elmwood Ave. S./Lakeview Blvd. right-of-way (1952 FIP) Elmwood SPS constructed in 1987	Pre-1928	
HIA_7	Right-of-Way (1954 aerial photograph)	Pre-1954	
HIA_8 (SPS)	Right-of-way/parkland (1952 FIP) SPS constructed circa 1950	Cumberland Dr. right-of-way pre-1928, SPS circa 1950	SPS constructed as a wet well/drywell type station circa 1950. Control building constructed in 1990.

3.3 Fire Insurance Plans

A request for Fire Insurance Plans (FIPs) was placed with ERIS for the Sites and the general study area. The FIP search was completed by Opta Information Intelligence (Opta) for lands in the study area. Select available FIPs were also reviewed from a previous ESA report prepared for the Region of Peel by Stantec (2021) for a portion of Lakeshore Road East right-of-way and surrounding area. Summary of observations from the reviewed FIPs (both in the immediate vicinity of the proposed shaft Site and greater Study Area) is presented in Appendix A1. Copies of select available FIPs are enclosed in Appendix A2 and with pertinent findings summarized below.

DRAFT

Table 3: Summary of FIP Records

Site ID	Subject Site (FIP Year)	Adjacent Lands (FIP Year)
ROS_1	- Site appears vacant (1952) - Rosemere Rd. does not appear on the FIP (1952)	- Residential north and west of Site - CNR right-of-way south/east of Site (1952)
ROS_2	- Sandham Road right-of-way (1952)	- Residential north and west of Site - CNR right-of-way south/east of Site (1952)
LAK_3	- No address listed - Site appears vacant (1928) - Used Car Lot (1952)	- Numerous properties to the west and southwest of Site with records of multiple USTs and automotive repairs (including property 25 m west of Site at 170 Lakeshore Rd. E. – historical gasoline service station) (1928 and 1952) - St. Lawrence Starch Co. Ltd. – former industrial property south of Site, with records of 3 USTs (1928 and 1952)
ELM_4	- Elmwood Ave. S./Wanita Rd. right-of-way (1952)	- Residential and vacant land to the north and east, St. Lawrence Starch Co. Ltd. to the west and south (1952)
ELM_5	- Appears to be part of a storage yard for large industrial site (St. Lawrence Starch Co. Ltd.) (1928 and 1952)	- Lake Ontario shoreline to the south, inferred residential to the north (1928 and 1952)
ELM_6 (SPS)	- Intersection of Elmwood Ave. and Lakeview Blvd. right-of-way, vacant land/Lake Ontario shoreline to south (1952)	- Residential and vacant lands, Lake Ontario Shoreline (1952)
HIA_7	- Wanita Road and Hiawatha Parkway right-of-way in a residential area (1928 and 1952)	- Appears residential (1928) - Residential (1952)
HIA_8 (SPS)	- Cumberland Dr. and Hiawatha Pkwy. right-of-way - Structure labelled as “pump house” and vacant land (inferred parkland) (1952)	- Residential - Vacant land (inferred parkland) (1928 and 1952)

Notes:

UST – Underground fuel storage tank, CNR – Canadian National Railway

Pertinent findings related to potentially contaminating activities (PCAs) identified based on FIP review are shown on Figures 5a to 5e.

DRAFT

3.4 City Directory Search

City Directory records for select properties within the study area obtained through ERIS include property use information from the years 1958 to 2001 in approximate six (6) year increments (Appendix D). City Directory records were requested for the Site addresses (if Site is part of a private/public property with an assigned civic address) as well as select properties in the Site vicinity, specifically for commercial and industrial properties. Summary of available City Directory records is enclosed in Appendix D with select pertinent details summarized below.

In the broader study area, are numerous residential, commercial, and industrial properties. The City Directory records do indicate several records related to vehicle repair/service shops, historic industrial property (starch production), gasoline service stations, as follows, with additional details included in Appendix D. Pertinent findings related to PCAs identified based on City Directory review are shown on Figures 5a to 5e.

Site ROS_1 and Site ROS_2

Due to these Sites being portions of right-of-ways, no City Directory records were requested for these Sites.

Site LAK_3

LAK_3 is located at 3 Elmwood Ave. N. City Directory listings for this property include the following:

- Address not listed – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000

Within the 100 m immediate study area of this Site, there are numerous industrial and commercial listings at downgradient / crossgradient properties including:

- 160 Lakeshore Rd. E.
  - Elmwood Tire Service Ltd. – 1958, 1965
  - G&M Auto Service Centre – 1977-78
  - Perma-Shine – 1977-78
  - Auto Safety Centre – 1983 -1989
- 170 Lakeshore Rd. E.
  - Elmwood Motors Ltd – 1958, 1965
  - Automotive Conversion of Canada - 1965
  - Credit Valley Motor Leasing Canada Ltd – 1965, 1972-73
  - Elmwood Motors Ltd. Used Car Lot – 1972-73

Slightly beyond the 100 m immediate study area, there are numerous industrial and commercial listings at downgradient / crossgradient properties including:

- 141 Lakeshore Rd. E.
  - St. Lawrence Starch Co. Ltd. – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000
  - Steen Mechanical Contractors – 1972-73
- 150 Lakeshore Rd. E.
  - Babcock Garage - 1965
  - Port Credit Car Wash - 1965
  - Pioneer Auto Centre – 1972-73
  - Pioneer Gas & Wash Centre – 1977-78, 1983
  - R & L Auto Glazing – 1977-78
  - Pioneer Petroleums – 1989, 1994, 2000

Site ELM_4

Site ELM_4 is located at the intersection of Elmwood Ave. S. and Wanita Rd., in a residential neighbourhood. Given that this Site is an existing right of way, City Directory records were not requested for this property.

Within the 100 m study area of this Site, there is one industrial listing at crossgradient property including:

DRAFT

- 141 Lakeshore Rd. E.
  - St. Lawrence Starch Co. Ltd. – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000
  - Steen Mechanical Contractors – 1972-73

Slightly beyond the 100 m immediate study area, there are numerous industrial and commercial listings at upgradient / crossgradient properties including:

- 150 Lakeshore Rd. E.
  - Babcock Garage - 1965
  - Port Credit Car Wash - 1965
  - Pioneer Auto Centre – 1972-73
  - Pioneer Gas & Wash Centre – 1977-78, 1983
  - R & L Auto Glazing – 1977-78
  - Pioneer Petroleums – 1989, 1994, 2000

Site ELM_5

ELM_5 is located at a portion of St. Lawrence Park property, located at 75 St. Lawrence Dr. Given that this Site is an existing park, City Directory records were not requested for this property.

Within the 100 m immediate study area of this Site, there are numerous industrial and commercial listings at upgradient / crossgradient properties including:

- 141 Lakeshore Rd. E.
  - St. Lawrence Starch Co. Ltd., 1958, 1965, 1972-73, 1977-78, 1983, 1989-, 1994, 2001
  - Steen Mechanical Contractors – 1972-73

Slightly beyond the 100 m immediate study area, there are numerous industrial and commercial listings at upgradient / crossgradient properties including:

- 150 Lakeshore Rd. E.
  - Babcock Garage - 1965
  - Port Credit Car Wash - 1965
  - Pioneer Auto Centre – 1972-73
  - Pioneer Gas & Wash Centre – 1977-78, 1983
  - R & L Auto Glazing – 1977-78
  - Pioneer Petroleums – 1989, 1994, 2000

Site ELM_6

ELM_6 is located south of the intersection of Elmwood Ave. S. and Carlis Pl., in a residential neighbourhood. Given that this Site is an existing right-of-way, it is inferred that there are no City Directory listings for this property.

Slightly beyond the 100 m immediate study area, there are numerous industrial and commercial listings at upgradient / crossgradient properties including:

- 141 Lakeshore Rd. E.
  - St. Lawrence Starch Co. Ltd., 1958, 1965, 1972-73, 1977-78, 1983, 1989-, 1994, 2001
  - Steen Mechanical Contractors – 1972-73
- 150 Lakeshore Rd. E.
  - Babcock Garage – 1965
  - Port Credit Car Wash - 1965
  - Pioneer Auto Centre – 1972-73
  - Pioneer Gas & Wash Centre – 1977-78, 1983
  - R & L Auto Glazing – 1977-78
  - Pioneer Petroleums – 1989, 1994, 2000

DRAFT

3.5 MECP Waste Disposal Site Inventory

The Waste Disposal Site Inventory (1991) is a document prepared by the MECP that provides a listing of active and inactive waste disposal sites (landfills) at the time of publication (1991). A set of geospatial data that shows the location of each of these disposal sites has been prepared by Fortin (2005) of the University of Toronto.

Upon review, it appears that there are seven (7) waste disposal sites listed at locations within 5 km of the subject Sites. These are as follows:

- Active Class A3 site at 3.6 km north of ROS_1,
  - Class A3 designation represents a site that is in an urban area, is hazardous to humans, and is for municipal / domestic waste.
- Inactive Class A5 site at 4.6 km northwest of ROS_1, and across the Credit River,
  - Class A5 designation represents a site that is in an urban area that has been closed for 10-20 years (as of 1991), is hazardous to humans and is for municipal / domestic waste.
- Inactive Class A1 site at 1.0 km west of ROS_1, and across the Credit River,
  - Class A1 designation represents a site that is in an urban area, is hazardous to humans and is for industrial liquid / hazardous waste in urban areas.
- Inactive Class A5 site at 450 m southwest of ROS_1, and across the Credit River,
  - Class A5 designation represents a site that is in an urban area that has been closed for 10-20 years (as of 1991), is hazardous to humans and is for municipal / domestic waste.
- Inactive Class A3 site at 1.0 km southwest of ROS_1 and across the Credit River,
  - Class A3 designation represents a site that is in an urban area, is hazardous to humans, and is for municipal / domestic waste.
- Inactive Class A3 site at 1.3 km east of HIA_8,
  - Class A3 designation represents a site that is in an urban area, is hazardous to humans, and is for municipal / domestic waste.
- Inactive Class A5 site at 3.5 km east of HIA_8,
  - Class A5 designation represents a site that is in an urban area that has been closed for 10-20 years (as of 1991), is hazardous to humans and is for municipal / domestic waste.

3.6 Region of Peel Waste Disposal Site Information

The Region of Peel states in their April 2022 Official Plan that, currently, there are no active waste disposal sites in the Region of Peel. The Official Plan includes a Waste Management Sites figure that identifies several closed landfill sites and waste facilities across the Region of Peel. According to this figure and supplemental information on waste disposal sites provided by the Region, there are several closed landfill sites within 1,000 m of the subject Sites:

- Near Site ROS_1
  - Closed public landfill site, located west of Stavebank Rd. and south of the train tracks (currently Port Credit Memorial Park), approximately 150 m south of the Site (MECP No. 7069).
  - Closed public landfill site, located at 53 Lake St. (currently J.C. Saddington Park) (MECP No. 7070), approximately 900 m south of the Site, and on the west side of the Credit River.
  - Closed private landfill site located on southwest corner of Mississauga Road and Lakeshore Rd. E. (MECP No. A220107), located approximately 700 m south of subject Site, west of Credit River.
    Closed private landfill site located on northwest corner of Mississauga Road and Lakeshore Rd. E. (MECP No. A220108), located approximately 600 m south of subject Site, west of Credit River.

Based on the separation distance, and the location of these reported closed landfill sites inferred to be located downgradient of the subject Site, or at locations across the Credit River (i.e., hydraulically separate), these are not considered to be a source of impact or risk to the subject property.

DRAFT

3.7 Region of Peel Spills Records

The Region of Peel maintains a record of spills reported, whether by citizens or by the MECP Spills Action Centre.

A set of 8 spill incident records were provided by the Region of Peel corresponding to spills that occurred in the areas near the subject Sites. These spill records are enclosed in Appendix F.

The reviewed spill records are summarized as follows:

- Sanitary sewage as a result of a forcemain break or other occurrence (2 records)
- Grout in storm drain or cement washout on road (2 records)
- Small-volume gasoline or motor oil spill associated with motor vehicles (reported as sheen on a road/possible gasoline spill or "gasoline spill and smell") (2 records – same date)
- Medical waste (1 record)

Based on the nature of the spills identified, these events are not considered to be a potential source of environmental risk or impact to the Sites.

The following records were identified as being of greater significance:

- Underground oil tank found while digging (1 record)
    - 20 Rosewood Avenue – City of Mississauga recreational property (outdoor swimming pool).

There were no additional details provided regarding this record. While a record of an underground fuel storage tank is of significance, based on the reported separation distance to the reported UST location, located approximately 200 m west (crossgradient) of LAK_3 Site and 410 m and 430 m northwest (upgradient) of ELM_4 and ELM_5 Sites, respectively, the reported UST at this location is not considered to be a potential source of environmental risk or impacts to the subject Sites.

Additional spill records reported by ERIS in the study area are discussed in Sections 3.10 and 6.1.3.

3.8 MECP Freedom of Information Request

A request was filed with the MECP Freedom of Information (FOI) office to acquire available records under the Freedom of Information and Protection of Privacy Act for select properties in the study area including:

- 182 Rosemere Rd. (Rosemere SPS),
- 3 Elmwood Ave. N. (LAK_3),
- 60 Elmwood Ave. S. (Elmwood SPS),
- 75 St. Lawrence Dr. (ELM_5), and
- 76 Cumberland Dr. (HIA_8).

At the time of this report's issue, response from the FOI office indicated no records for 60 Elmwood Ave. S. and 76 Cumberland Dr. Sites.

The FOI office has located records for 182 Rosemere Rd., 3 Elmwood Ave. N., and 75 St. Lawrence Dr. Sites, however only the reports for 182 Rosemere Rd. and 75 St. Lawrence Dr. have been received by our office prior to finalizing this report. The reports for 182 Rosemere Rd. (related to operation of the SPS) and 75 St. Lawrence Dr. (related to a black fibrous algae mat report on shoreline of Lake Ontario) are not considered to be an indication of an environmental risk or impact to the subject Sites. Once the remaining records are received, should these documents indicate findings of environmental significance, they will be provided under a separate cover.

A copy of FOI response letters is provided in Appendix G.

DRAFT

3.9 Other Environmental Reports

Phase I Environmental Site Assessment. Section of Lakeshore Road East, Between Front Street and Elmwood Avenue, Mississauga, Ontario (Stantec, 2021)

In 2021, Stantec completed a Phase One ESA on lands comprising approximately 1 kilometre (km) long section of Lakeshore Rd. E., between the intersection with Front St. N./S. and the intersection of Elmwood Ave. N./S. The Stantec ESA covered portion of Lakeshore Rd. E. in the vicinity of Site LAK_3 located at 3 Elmwood Ave. N.

The Stantec ESA report (2021) identified the following potentially contaminating activities and areas of environmental concern near Sites LAK_3, ELM_4 and ELM_5:

- 170 Lakeshore Road East – historical operation of an automotive facility/historical gasoline station, associated USTs, and hazardous waste generation and storage (approximately 20 m southwest of Site LAK_3 and 230 m and 300 m northwest of Site ELM_4 and Site ELM_5, respectively).
- 160 Lakeshore Road East – historical and current operation of an automotive facility, associated USTs, and hazardous waste generation and storage (approximately 80 m southwest of Site LAK_3 and 230 m and 280 m northwest of Site ELM_4 and Site ELM_5, respectively).
- 158 Lakeshore Road East – historical operation of a retail fuel outlet with associated USTs (approximately 120 m southwest of Site LAK_3 and 250 m and 270 m northwest of Site ELM_4 and Site ELM_5, respectively).
- 141 Lakeshore Road East – historical St. Lawrence Starch Co. Ltd. – Site ELM_5 is located on portion of this former industrial property.

These properties are considered to be located crossgradient of Site LAK_3, and upgradient of Sites ELM_4 and ELM_5. Pertinent findings related to PCAs identified based on other environmental reports review are shown on Figures 5a to 5e.

Various Sewage Pumping Stations Hydrogeological Investigation Report (Cole Engineering Group Ltd., 2017), and, Geotechnical Investigation Proposed Rosemere Road Sewage Pumping Station City of Mississauga, Region of Peel, Ontario (GeoPro Consulting Limited, 2017)

In 2017, Cole Engineering Group Ltd. (Cole) completed a Hydrogeological Investigation and GeoPro Consulting Limited conducted a geotechnical investigation at the Rosemere Road SPS, as part of a wider area MCEA project for Rosemere Road and Indian Road SPSs completed by Cole. Pertinent findings related to the Rosemere Road SPS are summarized below.

- As part of the geotechnical investigation three boreholes (BH1 to BH3) were drilled to depths of 5.2 m to 16.1 metres below ground surface (mbgs). Encountered soil conditions were reported as follows:
    - Topsoil 180mm to 350 mm thick, overlying,
    - Fill consisting of (fine) sandy silt, silt and clayey silt extending to depths ranging from about 0.5 m to 2.9 mbgs, overlying,
    - Silt (BH2 and BH3), extending to depths of 1.9 m to 2.0 mbgs. Sandy silt till (BH1) extending to depth of 4.0 mbgs, overlying,
    - Clayey Silt Till (BH2 and BH3), extending to depths of 3.8 m to 4.0 mbgs. Clayey silt (BH2) to depth of 3.4 mbgs, overlying,
    - Till/Shale complex extending to depths of 5.2 to 6.1 mbgs, overlying,
    - Shale bedrock (encountered at about 6.1 mbgs at BH1)
- There were no observations related to deleterious fill material reported in the Geotechnical Investigation borehole logs. Wood fragments were reported in one of the boreholes.
- Four (4) soil samples were analysed for metals and inorganics, petroleum hydrocarbons (PHCs), and volatile organic compounds (VOCs).

DRAFT

  - Based on the results of the soil chemical analysis, no exceedances of the applicable MECP Standard were reported for PHCs, VOCs and metals in the analyzed soil samples. Concentrations of PHCs and VOCs were reported below the laboratory detection limits.
  - Elevated concentrations and exceedances of applicable MECP Table 1, Table 2 and/or Table 3 Standards were noted for electrical conductivity (EC) and/or sodium adsorption ratio (SAR) in one (1) soil sample collected from borehole BH2. These parameters are inferred to be related to de-icing salts.
- Two of the boreholes were completed as monitoring wells (one shallow and one deep). The groundwater table at the Rosemere Road SPS was found to be approximately 3.5 meters below ground surface (mbgs) to 4.6 mbgs during the Hydrogeological Investigation.
- Hydraulic conductivity values estimated from rising-head tests ranged between 8.8 $x10^{-7}$ m/s and 7.6 $x10^{-9}$ m/s.
- Based on the assessment of dewatering requirements for the proposed construction associated with the 2017 MCEA project, the groundwater pumping rate at the Rosemere Road SPS was estimated to be 106,592 L/day.
- Groundwater quality samples were collected from monitoring well at BH3 and were analyzed for City of Mississauga Storm Sewer By-Law No. 259-05 and Peel Region Sewer Use By-Law 53-2010 parameters with comparison to Provincial Water Quality Objectives (PWQO).
  - Concentrations of VOC parameters were reported below the laboratory detection limits.
  - Elevated concentrations of phosphorus, and some metals were reported above the criteria of the PWQO.

Additional desktop hydrogeological and geotechnical reports were prepared as part of the current MCEA project by Golder Associates Ltd. Select information from those reports is referenced in Section 3.11.

3.10 Environmental Database Search (ERIS Report)

The Environmental Risk Information Services (ERIS) Report contains the results of a comprehensive search of a variety of environmental databases. The search is geospatially organized so all records returned are attributed to locations within the study area, in this case 100 m from the boundary of one of the Sites (100 m immediate study area).

Many of the records returned by the ERIS Report are considered to indicate negligible or minimal risk of environmental impacts to the Sites. As such, GMBP staff have reviewed the ERIS Reports and broken down the results to identify the most significant records: this breakdown is provided in Appendix B1 and the most significant records are denoted by red text. The entire ERIS Report is provided in Appendix B2, which include detailed descriptions of the various databases that were searched and the search results for the Sites and study area.

A brief summary of the most significant results, located within the 100 m immediate study area, are provided here with the results categorized by database. Pertinent findings related to PCAs identified based on ERIS report review are shown on Figures 5a to 5e.

<u>Aboveground Storage Tanks</u>

- Four (4) records for St. Lawrence Dr., south of Compass Way – no company listed – no address listed – petroleum tank – May 22, 1998
  - 60 m north of ELM_5
  - 170 m west of ELM_4
  - 200 m northwest of ELM_6
- Two (2) records for St. Lawrence Dr., southeast of Port St. E. – no company listed – no address listed – petroleum tank – May 22, 1998
  - 100 m northwest of ELM_5
  - 250 m west of ELM_4
  - 280 m northwest of ELM_6
- One (1) record for St. Lawrence Dr., south of Waterside Dr. – no company listed – no address listed – petroleum tank – May 22, 1998

- 100 m northwest of ELM_4
- 150 m north of ELM_5
- 170 m southwest of LAK_3
- 200 m northwest of ELM_6

Certificates of Approval

- Hiawatha Pkwy. & Cumberland Dr. (76 Cumberland Dr.) - R.M. of Peel – Standby diesel generator – July 20, 1990
  - Location of HIA_8

Ontario Spills

- 1171 Stavebank Rd. (private residence) – Furnace oil tank – underground fuel oil line leak in basement – quantity unknown – February 28, 1995
  - 85 m north of ROS_1

A brief summary of the most significant results, located outside of the 100 m immediate study area, are provided here with the results categorized by database.

Above Ground Storage Tanks

- Two (2) records for St. Lawrence Dr. south of Waterside Dr. – no company listed – no address listed – petroleum tank – May 22, 1998
  - 125 m northwest of ELM_4
  - 150 m north of ELM_5
  - 180 m southwest of LAK_3
  - 210 m northwest of ELM_6
- One (1) record for Compass Way, north of Waterside Dr., and west of St Lawrence Dr. – no company listed – Petroleum Tank – May 22, 1998
  - 130 m southwest of LAK_3
  - 190 m northwest of ELM_4
  - 215 m north of ELM_5
  - 275 m northwest of ELM_6

Commercial Fuel Oil Tanks

- 80 High St. E. – Bell Canada - Fiberglass Double Wall UST – 5,000 gal FS fuel oil tank – March 6, 2014
  - 320 m southeast of ROS_2

Delisted Fuel Tanks

- 158 Lakeshore Rd. E. - Eleven (11) expired records (Beaver Fuels Management Limited – one (1) record for FS facility – five (5) records for PS piping – five (5) records for FS liquid fuel tank – dated up to March 2012 and February 2017
  - 150 m west of LAK_3
  - 275 m northwest of ELM_4
  - 300 m north of ELM_5
- 150 Lakeshore Rd. E. – one (1) record for FS gasoline station (active) – May 31, 2021; four (4) records for FS liquid fuel tank (Parkland Fuel Corporation) – expired – July 31, 2020; seven (7) records for FS liquid fuel tank (Pioneer Energy Management) – expired – July 31, 2020
  - 200 m west of LAK_3
  - 300 m northwest of ELM_4
  - 300 m north of ELM_5

Fuel Storage Tank

- 150 Lakeshore Rd. E. – Parkland Corporation and Pioneer Energy Management

DRAFT

- Parkland Corporation - Six (6) records: of which, two (2) are records for double wall UST liquid fuel storage fiberglass tanks (60,000L) – installed March 20, 2012; one (1) is a record for double wall UST liquid fuel storage fiberglass tank (50,000L) installed May 8, 2009; two (2) are records for double wall UST liquid fuel storage fiberglass tank (29,000L), installed May 8, 2009; and one (1) is a record for double wall UST liquid fuel fiberglass tank (20,000L) installed May 8, 2009.
- Pioneer Energy Management Inc - Six (6) records: of which, four (4) records are for internally lined steel liquid fuel single wall UST (22,700L), installed October 2, 1989, and two (2) are records for sacrificial anode steel liquid fuel single wall UST (13,600L) installed on May 18, 1993.
- 200 m west of LAK_3
- 300 m northwest of ELM_4
- 300 m north of ELM_5

Fuel Storage Tank Historic

- Two (2) records for 150 Lakeshore Rd. E. (Pioneer Petroleums Management Inc.); of which, one (1) record is for 4 active liquid fuel double wall UST – gasoline (sized 20,000 L, 50,000 L, 29,000 L, and 29,000 L) each installed in 1995; and one (1) record is for the removal of six (6) liquid fuel single wall UST – gasoline tanks (sized 22,700 L, 22,700L, 22,700 L, 22,700 L, 13,600 L, and 13,600 L) installed in 1978 and removed as of August 2007.

Ontario Spills

- 20 Rosewood Ave. – Greenspoon Specialty Contracting Ltd – Construction Site – diesel fuel and water mixture – soil contamination – underground tank leak – UST 500 L diesel & water to ground – June 18, 2010
  - 200 m northwest of LAK_3
  - 410 m northwest of ELM_4
  - 430 m northwest of ELM_5
  - The potential risk due to the spill may be mitigated by the 200 m separation distance from the nearest site (LAK_3).
- 150 Lakeshore Rd E - Pioneer Petroleums Ltd – Service station – unknown quantity of gasoline to ground, leak detector line break – March 23, 1995
  - 200 m west of LAK_3
  - 300 m northwest of ELM_4
  - 300 m north of ELM_5
  - The potential risk due to the spill may be mitigated by the relative location of the spill from the Site (i.e., crossgradient), combined with a 200 m separation distance from the nearest site (LAK_3).

Fuel Spills and Leaks

- 20 Rosewood Ave – Fuel oil spill – petroleum product – “20 to 30 feet maybe more” – UST hit by backhoe – June 18, 2010
  - 230 m northwest of LAK_3
  - The potential risk due to the spill may be mitigated by the 230 m separation distance from the nearest site (LAK_3).

Private and Retail Fuel Storage Tanks

- Five (5) retail records for 150 Lakeshore Rd E - of which, one (1) record with no further information other than for retail, and the remaining four (4) are for Pioneer Petroleums, having expiry dates March 31, 1994, July 31, 1995 (2,000 L capacity), March 31, 1996 (118,000 L capacity), and July 31, 1995 (2,000 L capacity)
  - 200 m west of LAK_3
  - 300 m northwest of ELM_4
  - 300 m north of ELM_5

DRAFT

The ERIS report is included in Appendix B2, with pertinent findings related to PCAs identified based on ERIS report review shown on Figures 5a to 5e.

3.11 Physical Setting

3.11.1 Aerial Photographs

Aerial photographs available from Mississauga Maps (City of Mississauga 2022) were reviewed for each of the Sites for the following years: 1954, 1966, 1975, 1985, 1997, 2007, and 2017.

Historically, the Sites have generally existed in developed areas (mainly residential, but also some commercial and industrial). A large industrial starch processing facility (St. Lawrence Starch Company) was previously located at 141 Lakeshore Rd. E and occupied the block between Elmwood Ave. S and St. Lawrence Dr. According to online sources, this facility opened in 1890 and ceased operations in March of 1990. This property has since been redeveloped into a residential townhouse development.

Currently, the Sites exist in developed areas (mainly residential, with some commercial and industrial land uses along Lakeshore Rd. E.)

A summary of detailed notes taken during the aerial photo review is provided in Appendix C. The following is a brief breakdown of land-use activities of potential concern that were identified in the review.

ROS_1

- 1954 through 2017: the Site appears as a paved right-of-way (Rosemere Rd.) and green space. Four (4) residential dwellings appear on the north side of Rosemere Rd. (Potential for imported fill of unknown quality).
- Based on photograph resolution, it is unclear whether the Rosemere SPS was constructed prior to 1954.
- Circa 1954 through 2017: nearby railway tracks (approximately 50 m south of the Site) appear to travel in an east / west direction. Potential for imported fill of unknown quality, and rail yards, tracks, and spurs.
- No apparent changes to the Site or nearby railway tracks.

ROS_2

- Circa 1954 through 2017: the Site appears as a paved right-of-way (Sandham Rd.). Potential for imported fill of unknown quality.
- Prior to 1954, nearby railway tracks (approximately 50 m south of the Site) appear to travel in an east / west direction. Potential for imported fill of unknown quality, and rail yards, tracks, and spurs.
- No apparent changes to the Site or nearby railway tracks.

LAK_3

- Circa 1954: The Site appears as a parking lot, surrounded by mixed commercial and residential properties on all sides. Potential for imported fill of unknown quality.
- Circa 1966: The Site appears to have very slightly increased in size towards the east property boundary. Potential for imported fill of unknown quality.
- Circa 1954 through 1997: Large industrial facility (St. Lawrence Starch Co. Ltd.) in operation approximately 50 m southwest of the Site.
- Circa 1997: The large industrial facility appears to have been demolished.
- Circa 2007: The demolished large industrial facility appears to have been redeveloped into a residential subdivision.
- Circa 2007 to present: no apparent changes to the Site or redeveloped subdivision property.

ELM_4

- Circa 1954 through 2017: The Site appears as a paved “T” intersection in a residential neighbourhood. Potential for imported fill of unknown quality.

DRAFT

- Circa 1954 through 1997: Large industrial facility (St. Lawrence Starch Co. Ltd.) in operation approximately 25 m west of the Site.
- Circa 1997: The large industrial facility appears to have been demolished.
- Circa 2007: The demolished large industrial facility property appears to have been redeveloped into a residential subdivision.
- Circa 2007 to present: No apparent changes to the Site or redeveloped subdivision property

ELM_5

- Circa 1954: The Site appears as what is inferred as a portion of Lake Ontario (i.e., not land) and partially portion of a large industrial facility yard.
- Circa 1966: An extended shoreline appears to have been constructed on portion of Site. The newly constructed shoreline area appears to be partially used as an outdoor industrial yard, associated with the large industrial facility (St. Lawrence Starch Co. Ltd.) to the north.
- Circa 1975: The shoreline appears to have been enlarged (i.e., the Site) to approximately the size that exists today (2022).
- Circa 1985: The shoreline area appears vacant (i.e., no longer appears as an outdoor industrial yard). Immediately north of the Site, a building appears to have been demolished.
- Circa 1997: The large industrial facility (north of the Site) appears to have been demolished.
- Circa 2007: A “Waterfront Trail” and grassed area have been constructed at the Site. The demolished industrial facility has been redeveloped into a residential subdivision.
- Circa 2017 to present: No apparent changes to the Site.

ELM_6

- Circa 1954: The Site appears as a right-of-way at the southernmost portion of Elmwood Ave. S. Potential for imported fill of unknown quality.
- Circa 1966: An extended shoreline appears to have been constructed, and a small residential cul-de-sac (Carlis Pl.) has been developed at the southern end of Elmwood Ave. S. Potential imported fill of unknown material.
- Circa 1997: A building located at 60 Elmwood Ave. S., (inferred to be the Elmwood SPS) appears to have been developed.
- Circa 2007: No apparent changes to the Site or the surrounding area.

HIA_7

- Circa 1954: The Site appears as a 4-way intersection in a residential neighbourhood, with no concerns identified.
- Circa 2017: No apparent changes to the Site or the surrounding area.

HIA_8

- Circa 1954: The Site appears as a “T”-intersection and a portion of parkland in a residential neighbourhood, with no concerns identified.
- Circa 2017: No apparent changes to the Site or the surrounding area.

DRAFT

3.11.2 Topography, Hydrology, Geology

On a regional scale, the Sites are spread across an area that generally slopes southeastward toward Lake Ontario. Topographically, the Sites are relatively flat and are at similar grades as adjacent properties.

Based on the physiographic and quaternary mapping (Figures 2 and 3), the Sites are located in the physiographic region known as the Iroquois Plain and within the Sand Plains physiographic landform (Chapman and Putnam 1984). The glacial Iroquois Plain consist of generally glaciolacustrine sediments that primarily consist of sand, silt and gravel, with a shallow cover of glacial till remaining over the bedrock.

The Iroquois Plain is named after the glacial Lake Iroquois which was situated in roughly the same basin area occupied by Lake Ontario today. This region was inundated by then-Lake Iroquois and so lacustrine and deltaic deposits dominate, as well as alluvial deposits formed by more recent stream erosion.

Geologically, the Sites lie generally within areas dominated by Modern Alluvium (Site ROS_1), Deltaic and Lacustrine deposits (Sites ROS_1 and ROS_2), as well as Glaciolacustrine deposits (remaining sites) (refer to Table 3 and Figure 4). Bedrock in the vicinity of the Sites is the shale-rich Georgian Bay Formation.

Table 4: Surficial Geological Characterization

Site ID	Surficial Geology
ROS_1 (SPS)	Modern Alluvium[1] Deltaic and Lacustrine Deposits [2]
ROS_2	Deltaic and Lacustrine Deposits [2]
LAK_3	Glaciolacustrine Deposits[3]
ELM_4	
ELM_5	
ELM_6 (SPS)	
HIA_7	
HIA_8 (SPS)	

Notes:

[1] Modern Alluvium - Stratified deposits of gravel, sand, silt and clay laid down by streams, may contain organic remains.

[2] Deltaic and Lacustrine Deposits (coarse textured)– sand, gravel, minor silt and clay (Foreshore and basinal deposits)

[3] Glaciolacustrine Deposits (fine textured) - *silt and clay, minor sand and gravel Interbedded silt and clay and gritty, pebbly flow till and rainout deposits*

The Georgian Bay Formation bedrock underlies the City of Mississauga in the vicinity of the Sites (Ontario Geological Survey 2011) and the Sites lie near the boundary with the Queenston Formation bedrock unit. Georgian Bay Formation is an Upper Ordovician-age deposit consisting mainly of shale (blue-grey to brown to black). It also contains thin layers of limestone, dolostone and calcareous (i.e., calcium carbonate-rich) siltstones interbedded in the shale (Armstrong and Dodge 2007). The Queenston Formation shale is also interbedded with limestone, siltstone and dolostone.

The upper portion of the bedrock is weathered, and the weathered bedrock unit often extends for a significant thickness (several metres). In some locations the weathered bedrock forms a till-shale complex with overlying glacial till deposits.

In the previous investigations reviewed as part of the MCEA process, the bedrock surface was encountered between 4.2 m and 17.2 mbgs along Lakeshore Road and between 5.5 m and 10.7 mbgs north of Lakeshore Road near the Canadian Pacific Railway (i.e. near the location of the Rosemere SPS) (GMBP 2022).

In terms of hydrology, the Sites lie within the Lower Credit River watershed. On a local scale:

DRAFT

- Sites (ROS_1 and ROS_2) are located in the catchment associated with Kenollie/Mary Fix Creek and the Credit River,
- The remaining Sites are located in the catchment associated with Lake Ontario,
- The drainage for most of the Sites is controlled by the municipal stormwater management system (i.e., storm drains, roads), and
- Generally, groundwater flow tends in a southeasterly direction toward Lake Ontario, though flow directions may vary in areas close to riparian areas and watercourses, such as Kenollie Creek, Mary Fix Creek and the Credit River.

3.11.3 Water Bodies, Areas of Natural and Scientific Significance and Significant Wetlands

Areas of Natural and Scientific Interest (ANSI) are determined by the Ministry of Northern Development, Mines, Natural Resources and Forestry (MNDMNRF) using evaluation procedures developed by the province to assess areas of land and/or water containing natural landscapes or features which have been identified as having life science or earth science (or both) values related to natural heritage protection, scientific study, or education.

There is no ANSI immediately within the greater Port Credit East MCEA study area. However, according to the Natural Heritage Information Centre (NHIC), the Credit River Coastal Marsh is directly adjacent and is just outside of the northwest portion of the greater study area (GMBP 2022).

A wetland is determined to be a provincially significant wetland (PSW) by the MNDMNRF using the Ontario Wetland Evaluation System (OWES) – a science-based methodology used to evaluate and rank the relative value of wetlands. Wetlands are evaluated for significance based on a range of criteria, including biology, hydrology, societal value, and special features.

As reported, there are no mapped PSWs, other evaluated wetlands, or unevaluated wetlands that are directly within the greater Port Credit East study area. However, according to City of Mississauga's Official Plan Schedule 3, the southern portion of the Rosemere SPS Site (i.e., ROS_1) overlaps the 120-metre buffer zone associated with the Credit River Marshes PSW Complex (GMBP 2022). Additionally, based on the NHIC, the Rosemere Site is located approximately 150 metres northeast of the complex, which is adjacent and just outside of the greater Port Credit East MCEA Study Area (GMBP 2022)

Several of the Sites lie within 500 m of waterbodies or features of natural significance. These are summarized in Table 5.

DRAFT

Table 5: Waterbodies, Watercourses and Wooded Areas near the Sites. "~" indicates no waterbody or watercourse identified within 500 m.

Site ID	Feature or Waterbody	Distance from Site
ROS_1 (SPS)	Kenollie Creek, Mary Fix Creek and associated wooded areas Credit River and associated wooded area and marshes complex	Adjacent 180 m SW
ROS_2	Mary Fix Creek Credit River	Adjacent 460 m SW
LAK_3	~	~
ELM_4	~	~
ELM_5	Lake Ontario	Adjacent
ELM_6 (SPS)	Lake Ontario and associated wooded area	Adjacent
HIA_7	~	~
HIA_8 (SPS)	Lake Ontario	Adjacent

3.11.4 Fill Materials

The majority of the Sites are located along major or minor thoroughfares which would likely have been subject to area or roadway grading activities. Based on the age of the development throughout the study area, it is likely that (where fill was required) fill materials were not closely scrutinized for quality before being placed for construction. Based on the aerial photograph survey and the general locations of the various Sites, it is interpreted that there is some potential for imported fill materials of unknown quality to exist at all of the Sites, particularly Site ELM_5, which based on aerial photographs appears to have been filled as part of a Lake Ontario shoreline extension (portion of Site appears to have been previously under water).

3.11.5 Water Well Records

Select well records in the vicinity of the subject Sites were reviewed. Based on well records review, the shallow overburden soils are described as sand with silt and/or gravel and/or clay; silt or clay till; clay; clay with silt; sand; silt with sand and/or clay underlain by silt with clay and sand; sand with gravel; sand with silt or clay; clay; silt with sand and/or gravel; clay with gravel; clay with silt and gravel; silt or sand till; sand; layered shale deposits (MECP 2022). The reviewed well records are generally for monitoring/observation wells and well decommissioning records. Select well records in the vicinity of the Sites are enclosed in Appendix H.

In the background Hydrogeological Report which included the review of water well records for the greater MCEA study area, Golder Associates Ltd. (2022) reported that based on availability of municipal services, groundwater is not expected to be used for potable water supply in the study area and no records listed as private or domestic water wells were identified in the greater MCEA study area. Two primary aquifers were identified, a shallow unconfined or partially confined aquifer and a deep bedrock aquifer (Golder 2022). Based on MECP water well records, the depth to bedrock is reported in the range of 7 to 14.9 mbgs, with shallow groundwater level in the range of approximately 1.2 mbgs to 1.7 mbgs (Golder Associates Ltd. 2022, MECP 2022).

DRAFT

4. INTERVIEWS

The Region SPS properties (Rosemere, Hiawatha and Elmwood SPS) site reconnaissance was completed with an Operator from the Region of Peel Maintenance Department, who has been with the Region of Peel for the past 17 years and has been performing routine maintenance at these SPS properties. Relevant information obtained from the Region of Peel Operator is included in Section 5.1.

An information request has been placed with the City of Mississauga for records and reports of environmental significance for City of Mississauga owned properties. Records from City of Mississauga were not received at the time this report was issued. Once received, findings will be incorporated into this report. Interviews were not conducted in relation to City of Mississauga owned lands.

5. SITE RECONNAISSANCE

The site reconnaissance visit was completed by Mr. Mark Ongarato, B.Sc., of GMBP on September 12, 2022, from approximately 10:00 AM to 2:00 PM. Mr. Ongarato was accompanied by Zoltan, maintenance Operator for Region of Peel, during the SPS properties site reconnaissance visits.

The weather conditions at the time of site reconnaissance were rainy, changing to overcast, and a temperature of approximately 20ºC. During the site reconnaissance, photographs were taken and select photographs are presented in Appendix I.

5.1 Site Observations

ROS_1

This Site is located in a residential area on Rosemere Rd., which is approximately 90 m long and spans from Stavebank Rd. on the west side to Rosemere SPS at the east side. The Site features a paved asphalt roadway, (Rosemere Rd.), a municipal sewage pumping station (Rosemere SPS), and a concrete wet well (approximately 5 m north of Rosemere SPS). A municipal sewer was installed in Rosemere Rd. in 1969 per existing manhole cover. An older wet well was reported to be located 10 m north of the existing pumphouse. This wet well was reported to be upgraded to its current structure a number of years ago. There are also overhead power lines and utility poles on the north side of Rosemere Rd.

There was no visual evidence of extensive refuse or debris, stressed vegetation or surficial soil staining observed at the time of the site visit.

Rosemere SPS

Rosemere SPS was reported to be originally constructed at the time of the surrounding residential development (circa 1970s). This SPS is located at the far east end of Rosemere Rd. and utilizes two pumps. The SPS building hosts a double-walled backup generator diesel fuel tank that has a concrete secondary containment area. At the time of reconnaissance, the diesel tank was approximately ¾ full of diesel fuel. The SPS generator, diesel fuel tank, and control panels are elevated above ground level to meet floodplain requirements. A steel platform exists on the exterior portion of the building for refueling purposes. The diesel fuel storage tank is reported to be refuelled / topped up once per year (or more often in the event of a rare power outage incident that could cause the generator to run for an extended period of time).

A single bottle of antifreeze coolant (tied with zip-ties to the generator) is stored in this SPS. No other chemicals were reported to be used at this SPS facility. The floors are cleaned as needed with water using a hose in the SPS building. The SPS building is generally well maintained.

DRAFT

ROS_2

This Site is located in a residential area on Sandham Rd. (within the right-of-way), which is approximately 100 m long and spans between Mona Rd. and Vesta Dr. There are no properties with frontage along Sandham Rd. There is overhead street lighting, but no overhead power lines along Sandham Rd. There are two manhole covers (one sanitary sewer, one storm sewer) located at the east end of Sandham Rd. A chain-link fence runs parallel on the south side of Sandham Rd.

There was some evidence of inert domestic debris along the chain-link fence, located immediately south of Sandham Rd. Otherwise, the Site was generally well maintained with no stressed vegetation or surficial soil staining observed at the time of the site visit.

LAK_3

This Site is located in a commercial area at the northeast corner of Lakeshore Rd. E. and Elmwood Ave. S. with access via Elmwood Ave. S. This Site is approximately 1,750 m^2 (50 m x 35 m) in size and is currently used as a municipal parking lot (approximately 60 vehicle capacity). There are currently no constructed buildings on the property. Three (3) flush mount monitoring wells were identified while on-Site; one (1) on the east portion of the parking lot, and two (2) on the west portion (one (1) at each entrance). The monitoring wells were not opened while on-Site.

ELM_4

This Site is located in a residential area and consists of a T-intersection at Elmwood Ave. S. and Wanita Rd. right-of-ways. Four manhole covers were observed on-Site (two sewer and two storm). A concrete curb runs along the edges of both roads which are paved, with concrete sidewalk along the north side of Wanita Rd. and along the west side of Elmwood Ave. S. There are also overhead power lines and utility poles on the east side of Elmwood Ave. S. Overhead power lines also cross Elmwood Ave. S. at Wanita Rd.

There was no visual evidence of extensive refuse or debris, stressed vegetation or surficial soil staining observed at the time of the site visit.

ELM_5

This Site is located within St. Lawrence Park (located at 75 St. Lawrence Dr.) between St. Lawrence Dr. (to the north) and the Waterfront Trail (to the south) and is located approximately 60 m northeast of the Elmwood SPS property. Beyond St. Lawrence Dr. is a residential development. This Site features a maintained grass area with an irrigation system and a portion of a nearby paved walking trail (Waterfront Trail). Overhead lighting was observed along the Waterfront Trail.

There was no visual evidence of extensive refuse or debris, or surficial soil staining observed at the time of the site visit in the areas observed.

Elmwood SPS

The SPS was reported to be originally installed at the time of the surrounding residential development (circa 1987). This SPS is located approximately 50 m west of Elmwood Ave. S., in Tall Oaks Park, and utilizes three (3) pumps. This SPS building hosts a double-walled backup generator diesel fuel storage tank. At the time of inspection, the diesel tank was approximately ¾ full of diesel fuel. A steel platform exists on the exterior portion of the building for refueling purposes. The diesel tank is reported to be refuelled once per year (or more often in the event of a rare power outage incident that could cause the generator to run for an extended period of time).

Maintenance Operator reported no spills and that no chemicals are used or stored at this SPS location. The SPS overflow storage chambers are reported to be cleaned annually. The SPS building is generally well maintained.

DRAFT

ELM_6

This Site is located in a residential area and occupies a portion of T-intersection at Elmwood Ave. S. and Carlis Pl. right-of-ways and a portion of the adjacent parkland (Tall Oaks Park). Five manhole covers (three (3) sanitary sewer and two (2) storm) were observed at the intersection. A concrete curb runs along the edges of both roads, with concrete sidewalk along the west side of Elmwood Ave. S. There are also overhead power lines and utility poles on the east side of Elmwood Ave. S. Overhead power lines also cross Elmwood Ave. S. at Carlis Pl.

There was no visual evidence of extensive refuse or debris, or surficial soil staining observed at the time of the site visit in the areas observed.

HIA_7

This Site is located in a residential area and occupies the 4-way intersection at Wanita Rd. and Hiawatha Pkwy. This paved asphalt, 4-way-stop intersection, comprises seven manhole covers (3 sanitary sewer, 4 storm) and features a concrete curb along the outer edges of the paved roads. A concrete sidewalk runs along the northern side of Wanita Rd. There are also overhead power lines and utility poles on the north side of Wanita Rd. and east side of Hiawatha Pkwy.

There was no visual evidence of extensive refuse or debris, or surficial soil staining observed at the time of the site visit in the areas observed.

HIA_8

This Site is located in a residential/parkland land use setting, in Hiawatha Park. The Site is immediately south of Hiawatha Pkwy. and Cumberland Dr. intersection. A concrete sidewalk runs along the northern side of Wanita Rd. There are also overhead power lines and utility poles on the south side of Cumberland Dr., at the entrance to Hiawatha Park.

Hiawatha SPS

This SPS was reported to be originally installed at the time of the surrounding residential development (circa 1950s). This SPS is located approximately 15 m south of Hiawatha Pkwy. and Cumberland Dr., in Hiawatha Park, and utilizes two pumps. This SPS building hosts a double-walled backup generator diesel fuel storage tank. At the time of site visit, the diesel tank was approximately ¾ full of diesel fuel. A steel platform exists on the exterior portion of the building for refueling purposes. The diesel tank is reported to be refuelled once per year (or more often in the event of a rare power outage incident that could cause the generator to run for an extended period of time).

Maintenance Operator reported no spills and that no chemicals are used or stored at this SPS location. The SPS building is generally well maintained.

5.2 Observations at Adjacent Properties

Adjacent and nearby properties were observed from public right-of-ways during the Site reconnaissance visits. Adjacent neighbouring properties are shown on Figure 5b to 5e. Further details of activities at the neighbouring properties are contained in the FIPs (Appendix A1/A2), the ERIS report (Appendix B1/B2), aerial photographs (Appendix C), City Directory (Appendix D), with selected pertinent details discussed below. Select Site photographs and notes from the site visit are presented in Appendix I and J.

Current land use of neighbouring properties within the study area is predominantly residential (Sites ROS_1, ROS_2, ELM_4, ELM_5, ELM_6, HIA_7, and HIA_8) with mixed commercial / residential commercial land uses near Site LAK_3. Sites ELM_6 and HIA_8 are located within residential and parkland land use settings.

The following is a brief summary of land-use activities that were identified in the review of neighbouring property uses. Additional details from the Site visit are presented in a site visit memo (Appendix J).

Site ROS_1

- This Site is located along the entirety of Rosemere Rd., a dead-end residential road off the east side of Stavebank Rd., approximately 200 m north of Park St. E.
- Approximately 50 m south of the Site is a GO railway right-of-way and a train passenger boarding station with three sets of tracks travelling in an east / west direction.
- Approximately 25 m south of the Site is a municipal drainage channel (Mary Fix Creek), oriented in an east / west direction, which flows west towards the Credit River (located approximately 250 m downstream).

Site ROS_2

- This Site is located along the entirety of Sandham Rd., a residential road right-of-way situated between Mona Rd. (to the west) and Vesta Rd. (to the east), approximately 200 m south of Inglewood Dr.
- Approximately 50 m south of the Site is a railway crossing (GO train) with three sets of tracks travelling in an east / west direction.
- Approximately 25 m south of the Site hosts a municipal drainage ditch, oriented in an east / west direction, and flows west towards the Credit River (approximately 550 m downstream).

Site LAK_3

- This Site is located at the northeast corner of Elmwood Ave. N. and Lakeshore Rd. E.
- Approximately 100 m west of the Site is an automotive repair shop / garage occupied by Midas. The Midas building features a two-bay repair shop and a sales area.
- Approximately 90 m southeast of the Site hosts a coin-laundry facility (Washpro Coin Laundromats), located in a strip mall at 195 Lakeshore Rd. E. The laundromat appeared to feature approximately 15 - 20 washer / dryer machines.
- Approximately 200 m to the west of the Site hosts a Pioneer Gas Station, located at 150 Lakeshore Rd. E., which features 10 gasoline fueling pumps, an automatic car wash building, and a convenience store building.

Site ELM_4

- This Site is located at the intersection of Elmwood Ave. S. and Wanita Rd., approximately 200 m south of Lakeshore Rd. E.
- Approximately 200 m north / northeast of the Site hosts a coin-laundry facility (Washpro Coin Laundromats), located in a strip mall at 195 Lakeshore Rd. E. The laundromat appeared to feature approximately 15 - 20 washer / dryer machines.
- Approximately 250 m northwest of the Site hosts a Midas auto repair shop (160 Lakeshore Rd. E), which features a two-bay repair shop and a sales area.

Site ELM_5

- This Site is located in St. Lawrence Park, immediately south of St. Lawrence Dr. and Compass Way.
- To the north, east and west of the Site hosts residential property uses.
- Approximately 50 m to the east of the site hosts Tall Oaks Park and Elmwood SPS property.
- Immediately to the south is Lake Ontario.

Site ELM_6

- This Site is located at the intersection of Elmwood Ave. S. and Carlis Pl., and approximately 300 m south of Lakeshore Rd. E.
- Approximately 300 m north / northeast of the Site hosts a coin-laundry facility (Washpro Coin Laundromats), located in a strip mall at 195 Lakeshore Rd E. The laundromat appeared to feature approximately 15 - 20 washer / dryer machines.

Site HIA_7

- This Site is located at the intersection of Hiawatha Pkwy. and Wanita Rd. approximately 200 m south of Lakeshore Rd. E.

DRAFT

- This Site is surrounded by residential properties on all sides and is approximately 175 m north of Hiawatha Park.

Site HIA_8

- This Site is located at the northern portion of Hiawatha Park and portion of the intersection of Hiawatha Pkwy. and Cumberland Dr. approximately 175 m south of Wanita Rd.
- This Site is immediately north of Lake Ontario and is surrounded by residential properties on all sides.

6. REVIEW AND EVALUATION OF INFORMATION

6.1 Identification and Evaluation of Potentially Contaminating Activities

Certain industrial and land use activities are listed under Table 2 of Ontario Regulation 153/04 as being "Potentially-Contaminating Activities" (PCAs). These are activities which have an increased potential of causing environmental impacts to their host sites and also, under certain conditions, to surrounding areas or neighbouring sites.

This section will identify the categories of PCAs that have been identified within the study area. Within each category, an assessment will be completed to determine whether or not these PCAs should be considered as Areas of Potential Environmental Concern (APECs) with regard to the shaft Site(s). An Area of Potential Environmental Concern indicates that there is an elevated probability for environmental impacts at the Site due to the existence of a PCA and the prevailing conditions, be they soil, groundwater, topographic, regulatory.

Identified APECs will be recommended for additional investigation or risk mitigation approaches, as applicable.

Figures 5a through 5e show the locations of the identified PCAs within the study area which are considered to be more significant or may act as potential sources of environmental impact or risk to the subject Sites.

6.1.1 Waste Disposal Sites

As discussed in Section 3.5, the records review has indicated the presence of historical landfills/waste disposal sites within 1000-m from the Sites. However, the potential for these landfill areas to have impacted the Sites is mitigated for the following reasons:

- Hydraulic Separation:
  - The closed waste disposal site located approximately 150 m west/southwest of ROS_1 (e.g., current location of Port Credit Memorial Park at 40 Lakeshore Rd. E.) is on the opposite side of Mary Fix Creek from the Site. It is expected that Mary Fix Creek serves as a drainage divide in this area and that this obstructs the pathway for contaminants to reach the Site.
  - The closed waste disposal site located approximately 900 m southwest of ROS_1, (e.g., current location of J.C. Saddington Park at 53 Lake St.) is on the opposite side of the Credit River from the Site. It is expected that Credit River serves as a drainage divide in this area and that this obstructs the pathway for contaminants to reach the Site.

- Hydraulic Gradient
  - The waste disposal site located approximately 150 m southwest of ROS_1 (e.g., current location of Port Credit Memorial Park at 40 Lakeshore Rd. E.) is located downgradient of ROS_1.
  - Closed private landfill site located on southwest corner of Mississauga Road and Lakeshore Rd. E. (MECP No. A220107), is located approximately 700 m south of subject Site, west of Credit River.
    Closed private landfill site located on northwest corner of Mississauga Road and Lakeshore Rd. E. (MECP No. A220108), located approximately 600 m south of subject Site, west of Credit River.
  - The remaining inactive waste disposal sites are located beyond 1 km of the subject Site and are generally located hydraulically crossgradient to subject Site. As such, based on the separation

distance and the hydraulically separate locations of these former waste disposal sites, these are not considered to be a source of environmental impact or risk to subject Site.

Shaft Sites: These reported waste disposal sites are not considered to be an APEC with respect to the subject Sites.

Linear Works: These reported waste disposal sites are not considered to be an APEC with respect to the potential linear works.

6.1.2 Records of Site Condition (RSC)

A Record of Site Condition (RSC) sets out the environmental condition of a property at a particular point in time based on environmental site investigations conducted by a Qualified Person (QP). An RSC must be filed with the Ministry of the Environment, Conservation and Parks (MECP) before property use changes in certain ways (typically to a more sensitive land use designation such as residential).

The ERIS report indicated one (1) record where a RSC was acquired for a property within the study area, approximately 210 m southwest (crossgradient) of the Site LAK_3 and 280 northwest (upgradient) of Site ELM_5. This RSC record is described in further detail below:

- 15 Hurontario St. – F.S. Port Credit Development Limited – RSC filed November 16, 2007
  - Property use changed from commercial to residential.
  - Site reported to meet the full depth site condition standard, with nonpotable ground water, course textured soil, for residential / parkland / institutional property use.
  - Approximately 210 m southwest of nearest Site (LAK_3) and 280 northwest of Site ELM_5.
  - Shaft Site: Based on the separation distance between this reported RSC site and the subject Sites, the reported RSC site is not considered to be a source or risk or impact to the subject Sites.
  - Linear Works: This PCA is identified for consideration with respect to the potential linear works.

6.1.3 Spills

Spills of fuel, oil, or other hazardous material may result in a lasting environmental impact to soil or groundwater if not properly controlled or remediated.

Region of Peel provided internal records for the subject Sites and the vicinity. Several spills were identified to be within the vicinity of the subject Sites, however these were identified to be of low risk in the context of potential for causing environmental impact (e.g. medical waste, grout and sewage spills) or based on the reported location and the separation distance (small volume of gasoline or motor oil) as summarized in Section 3.7.

The ERIS report indicated a few instances where higher risk materials (e.g., PCB-laden oil, fuels) were spilled in non-trivial quantities (e.g., >100 L) in the vicinity of the Sites. Each will be addressed in turn here:

<u>Ontario Spills and Fuel Oil Spills and Leaks Databases</u>

- 1171 Stavebank Rd. (private residence) – Furnace oil tank – underground fuel oil line leak in basement – quantity unknown – February 28, 1995
  - Due to the nature of this spill record and the nature of the contaminants involved (85 m northwest of ROS_1), there is not considered to be elevated potential for environmental impacts due to this activity.
  - Shaft Sites: This PCA is not considered to be an APEC with respect to a shaft Site.
  - Linear Works: This PCA is identified for consideration with respect to the potential linear works.

- 20 Rosewood Ave. – Greenspoon Specialty Contracting Ltd – Construction Site – diesel fuel and water mixture – soil contamination – underground tank leak – UST 500 L diesel and water to ground – June 18, 2010. incident described as “UST hit by backhoe”.
  - Due to the nature of this spill record and the contaminants involved there is considered to be elevated potential for environmental impacts due to this activity.

- Shaft Sites: This PCA is not considered to be an APEC with respect to a shaft Site.
- Linear Works: This PCA is considered to be an APEC with respect to potential linear works.

- 150 Lakeshore Rd. E. - Pioneer Petroleums Ltd – Service station – unknown quantity of gasoline to ground, leak detector line break – March 23, 1995
  - Due to the nature of this spill record, its age (1995) and therefore duration of potential risk exposure, and the contaminants involved, there is considered to be elevated potential for environmental impacts due to this activity.
  - Shaft Sites: This PCA is not considered to be an APEC with respect to a shaft Site.
  - Linear Works: This PCA is identified for consideration with respect to the potential linear works.

6.1.4 Tanks of Fuel and Associated Products

Historically, liquid fuel tanks (e.g., of gasoline, diesel, or other petroleum fuels) have commonly been sources of environmental impacts. This is especially true in the case of underground storage tanks which, prior to monitoring and leak detection technologies becoming commonplace, may have had leaks that went undetected for long periods of time, thus allowing the release of substantial quantities of petroleum-derived chemicals into the subsurface. Furthermore, tanks are often used at industrial sites and other mechanical facilities to hold waste oil, grease, and other potential contaminants of concern.

Numerous fuel tanks and sites that host fuel tanks have been identified within the study area (refer to FIPs (Appendix A1/A2), the ERIS Report (Appendix B/B1) and TSSA records search (Appendix E). Those records that have been identified as PCAs are listed here and assessed to determine whether they are to be considered Areas of Potential Environmental Concern to the subject Sites.

- 1171 Stavebank Rd. (PCA #28: Gasoline and Associated Products Storage in Fixed Tanks)
  - One (1) record that describes a historical fuel leak and usage of an underground fuel storage tank at this location. Due to the nature of the record and the nature of the contaminants involved, there is not considered to be elevated potential for environmental impacts due to this activity.
  - Shaft Sites: This PCA is not considered to be an APEC with respect to a shaft Site
- 20 Rosewood Ave. (PCA #28: Gasoline and Associated Products Storage in Fixed Tanks)
  - Two records that describe a historical fuel spill of petroleum product from an underground fuel storage tank at this location. Due to the age of these records (2010) and therefore duration of potential risk exposure, and known spill record of 500 L of mixed diesel and water, there is considered to be elevated potential for environmental impacts to this activity
  - Shaft Sites: This PCA is considered to be an APEC with respect to shaft Site LAK_3.
  - Linear Works: This PCA is identified for consideration with respect to the potential linear works.
- 150 Lakeshore Rd. E. (PCA #28: Gasoline and Associated Products Storage in Fixed Tanks)
  - Numerous records describe historical usage of underground fuel storage tanks at this location. Due to the age of the records and therefore duration of potential risk exposure, combined with the volume stored on-site, there is considered to be some elevated potential for environmental impacts associated with this activity.
  - Shaft Sites: This PCA is not considered to be an APEC with respect to a shaft Site.
  - Linear Works: This PCA is identified for consideration with respect to the potential linear works.
- 156/158 Lakeshore Rd. E (PCA #28: Gasoline and Associated Products Storage in Fixed Tanks)
  - Numerous records describe historical usage of underground fuel storage tanks at this location. Due to the age of the records and therefore duration of potential risk exposure, combined with the volume stored on-site, there is considered to be elevated potential for environmental impacts associated with this activity.
  - Shaft Sites: This PCA is not considered to be an APEC with respect to a shaft Site
  - Linear Works: This PCA is identified for consideration with respect to the potential linear works.
- 160 Lakeshore Road East (PCA #28: Gasoline and Associated Products Storage in Fixed Tanks)
  - Due to the age of the records and therefore duration of potential risk exposure, combined with the volume stored on-site, there is considered to be elevated potential for environmental impacts associated with this activity.

DRAFT

    - Shaft Sites: This PCA is considered to be an APEC with respect to shaft Site LAK_3, however the potential impacts may be limited due to the distance between the two locations (approximately 80 m west of Site LAK_3).
    - Linear Works: This PCA is identified for consideration with respect to the potential linear works.
- 170 Lakeshore Road East (PCA #28: Gasoline and Associated Products Storage in Fixed Tanks)
    - Due to the age of the records and therefore duration of potential risk exposure, combined with the volume stored on site, there is considered to be elevated potential for environmental impacts associated with this activity.
    - Shaft Sites: This PCA is considered to be an APEC with respect to shaft Site LAK_3
    - Linear Works: This PCA is also identified for consideration with respect to the potential linear works.
- 80 High St. E. (PCA #28: Gasoline and Associated Products Storage in Fixed Tanks)
    - Due to the volume stored on site, there is considered to be elevated potential for environmental impacts associated with this activity.
    - Shaft Sites: This PCA is not considered to be an APEC with respect to a shaft Site
    - Linear Works: This PCA is identified for consideration with respect to the potential linear works.
- St. Lawrence Starch Co. Ltd. - Historically located at 141 Lakeshore Rd. E. (PCA #28: Gasoline and Associated Products Storage in Fixed Tanks)
    - Multiple records that describe historical usage of above ground fuel storage tanks at this location. Due to the age of the records and therefore duration of potential risk exposure, combined with volume stored on-site, there is considered to be elevated potential for environmental impacts associated with this activity.
    - Shaft Sites: This PCA is considered to be an APEC with respect to shaft Sites LAK_3, ELM_5, and ELM_6.
    - Linear Works: This PCA is identified for consideration with respect to the potential linear works.
- 76 Cumberland Dr. – Hiawatha SPS (PCA #28 Gasoline and Associated Product Storage in Fixed Tanks)
    - One record that describes historical usage of an above ground diesel fuel storage tank at this location. (i.e., backup diesel generator fuel tank). Due to the age of the records and therefore duration of potential risk exposure, combined with the volume stored on-site, there is considered to be elevated potential for environmental impacts.
    - Shaft Sites: This PCA is considered to be an APEC with respect to shaft Site HIA_8
    - Linear Works: This PCA is identified for consideration with respect to the potential linear works.
- 60 Elmwood Avenue South – Elmwood SPS (PCA #28 Gasoline and Associated Product Storage in Fixed Tanks)
    - Based on the historical fuel storage and handling at the subject Site related to the back up diesel generator, there is considered to be elevated risk associated with this activity.
    - Shaft Sites: This PCA is considered to be an APEC with respect to shaft Sites ELM_5 and ELM_6.
    - Linear Works: This PCA is identified for consideration with respect to the potential linear works.
- 182 Rosemere Road – Rosewood SPS (PCA #28 Gasoline and Associated Product Storage in Fixed Tanks)
    - Based on the historical fuel storage and handling at the subject Site related to the back up diesel generator, there is considered to be elevated risk associated with this activity.
    - Shaft Sites: This PCA is considered to be an APEC with respect to shaft Site ROS_1.
    - Linear Works: This PCA is identified for consideration with respect to the potential linear works.

DRAFT

6.1.5 Automotive/Transport Systems Maintenance or Service Shops

Shops or yards that provide services to support transport systems or to repair motor vehicles often utilize a range of liquid products that may contain environmental contaminants. Examples of these include motor oil and other lubricants, fuels, waste oils, degreasers and solvents. As a result, these types of operations have the potential to result in environmental impacts.

One (1) current service shop has been identified through the records review (Appendix I (Photographs), adjacent properties site visit notes (Appendix J)) as well as there are historical service shop properties in the study area (FIPs (Appendix A1/A2)). Those that have been identified as Potentially Contaminating Activities (PCAs) are listed here and assessed to determine whether they are to be considered Areas of Potential Environmental Concern.

- 160 Lakeshore Rd. E. (PCA #52 Storage, Maintenance, Fueling and Repair of Equipment, Vehicles, And Material Used to Maintain Transportation Systems)
    - During the site visit, this property was identified as being host to an automotive repair shop. There is elevated potential for environmental impacts associated with this activity.
    - Shaft Sites: This PCA is considered to be an APEC with respect to shaft Site LAK_3, however the potential impacts may be limited due to the distance between the two locations (approximately 80 m west of Site LAK_3).
    - Linear Works: This PCA is identified for consideration with respect to the potential linear works.
- 170 Lakeshore Road East (PCA #52 Storage, Maintenance, Fueling and Repair of Equipment, Vehicles, And Material Used to Maintain Transportation Systems)
    - This property is identified as “Elmwood Motors Ltd.” on the 1952 FIP and it is reported to have hosted a garage, a showroom, a “greasing” building, and a gasoline service operation with 3 USTs. Due to the age of the records and therefore duration of potential risk exposure, there is considered to be elevated potential for environmental impacts associated with this activity.
    - Shaft Sites: This PCA is considered to be an APEC with respect to shaft Site LAK_3
    - Linear Works: This PCA is also identified for consideration with respect to the potential linear works.

6.1.6 Imported Fill of Unknown Quality

Historically, fill materials were not commonly scrutinized for environmental quality before being imported for use at a construction site. As a result, fill often contained deleterious materials or had other environmental impacts.

Based on the aerial photo review and the fact that most of the Sites were developed prior to circa 1954, it is expected that all Sites have the potential to have been affected by imported fill materials, specifically Sites ELM_5 (located on former industrial property with a nearby railway sidings at the property) and ELM_6 (located on an historically extended shoreline of Lake Ontario).

Therefore, each of the Sites is considered to have “Imported Fill of Unknown Quality” as a Potentially Contaminating Activity (PCA #30) which is considered to form an APECs on each of the subject Sites. Consequently, soils on these Sites may therefore require some degree of sampling and characterization effort to support soil off-site re-use and disposal in accordance with Excess Soil Management regulation (i.e., O.Reg. 406/19).

6.1.7 Drycleaners

Historically, dry-cleaning facilities utilized halogenated solvents (e.g., perchloroethylene) in the dry-cleaning process. These solvents tend to be persistent in the environment, are poorly soluble in water and are denser than water (i.e., Dense Non-Aqueous Phase Liquids, which tend to sink in the subsurface). They also tend to be toxic to humans at relatively low concentrations. As a result, dry-cleaning facilities which used halogenated solvents are commonly sources of environmental impacts.

No dry-cleaning facilities were specifically identified in the ERIS report in the study area. A coin-laundry facility (Washpro Coin Laundromats) located in a strip mall at 195 Lakeshore Rd. E. approximately 180 m northwest of Site ELM_4 and 280 m northwest of Site ELM_6 was identified during the site visit. The laundromat appeared

to feature approximately 15 - 20 washing/drying machines and did not appear to be an active dry-cleaning establishment at the time of the site visit.

As this address was not identified in the ERIS report as a registered waste generator of halogenated solvents, this may suggest that this location may not include a dry-cleaning operation on Site. This property is therefore not considered to be an APEC at this time. Should additional information be obtained that suggests that this location was in fact a dry-cleaning operation (i.e., from additional records from City of Mississauga which are outstanding at the time of issue of this report), this report will be revised to incorporate additional findings.

6.1.8 Former Use Related to Commercial Auto Sales

As discussed in Section 3.3, the LAK_3 Site (located at 3 Elmwood Ave. N.) was historically a used car lot. Based on historical use of this Site related to commercial automotive activities, the historical land use of this Site is being considered a PCA which contributes to an APEC at the subject Site.

Shaft Sites: This PCA is considered to be an APEC with respect to shaft Site LAK_3

Linear Works: This PCA is also identified for consideration with respect to the potential linear works.

6.2 Summary of Areas of Potential Environmental Concern and Conceptual Model

Having evaluated the various PCAs and identified from them those activities which are to be considered Areas of Potential Environmental Concern to subject Sites, the following APECs have been identified, as summarized in Table 66.

For each APEC, the following information has been noted:

- The address of the APEC property, as well as the operation name (if available),
- The reported activities that were identified and resulted in that location being identified as an APEC
    - This activity will correspond to an entry in Table 2 “Potentially Contaminating Activities” of Ontario Regulation 153/04 (where applicable),
- The shaft Sites which that APEC may affect, and,
- The environmental media which may be affected at that Site.

DRAFT

Table 6: Areas of Potential Environmental Concern. (Shaft Sites)

#	Address/ Operation	Activity	Affected Site(s)	Affected Media	PCOCs
1	20 Rosewood Ave. (Harold E Kennedy Park)	Fuel Spills Fuel Tank	LAK_3 (due to downgradient / crossgradient location	Groundwater	BTEX, PHCs F1-F4
2	160 Lakeshore Rd. E. (Midas)	Automotive Repair Garage and historic gasoline service station	LAK_3 (due to short separation distance and cross- gradient location)	Groundwater	BTEX PHCs F1-F4, VOCs
3	170 Lakeshore Road E.	Historical Gasoline Service Station and Automotive Repair Garage	LAK_3 (due to short separation distance and cross-gradient location)	Groundwater	BTEX PHCs F1-F4, VOCs
4	141 Lakeshore Rd. E. Part of a storage yard for large industrial facility (St. Lawrence Starch Co. Ltd.)	Historic industrial facility, underground fuel tanks, multiple railway spurs, ERIS records of multiple ASTs.	LAK_3, (due to short separation distance and cross-gradient location); ELM_5 and ELM_6 (short separation distance and upgradient location)	Soil / Groundwater	Soil (Metals PAHs) Groundwater (BTEX, PHCs, VOCs)
5	3 Elmwood Ave. N.	Historic “Used Car Lot” (1952 FIP)	LAK_3 (on-Site)	Soil / Groundwater	Soil (Metals PAHs) Groundwater BTEX, PHCs, VOCs
6	76 Cumberland Dr. (Hiawatha SPS)	Fuel Tank	HIA_8 (on-Site)	Soil / Groundwater	BTEX, PHCs F1-F4
7	60 Elmwood Ave. S. (Elmwood SPS)	Fuel Tank	ELM-5 and ELM-6 (due to short separation distance and cross-gradient location)	Soil / Groundwater	BTEX, PHCs F1-F4
8	182 Rosemere Rd. (Rosemere SPS)	Fuel Tank	ROS_1 (on-Site)	Soil / Groundwater	BTEX, PHCs F1-F4
9	NA	Imported Fill (on-Site)	All sites	Soil	Metals PAHs

*PAHs = polycyclic aromatic hydrocarbons, PHCs = petroleum hydrocarbons, BTEX = benzene, toluene, ethylbenzene and total xylenes, and VOCs = volatile organic compounds.

DRAFT

Figures 5a through 5e illustrate the identified PCAs on the subject Sites (where applicable) and vicinity. It is noted that monitoring wells were observed on Site LAK_3 and a request was placed to obtain records/reports on this Site as well as other Sites currently owned by the City of Mississauga. Once these records are received, this report and recommendations for further assessment at the subject Sites will be updated accordingly, based on the available information.

Monitoring wells were reported to have been installed, as well as soil and groundwater samples were collected from Site ROS_1 as part of previous geotechnical and hydrogeological investigations by others (Section 3.9). Based on reported results, there were no detections of PHCs or VOCs in the select soil samples collected from the boreholes, and no VOC (including BTEX) detections in the groundwater from the monitoring wells. It is noted that no water quality results were available for PHCs. Should the monitoring wells still be present at Site ROS_1, it is recommended to collect additional water quality samples from the wells to further assess groundwater quality with respect to the potential for PHC impacts. This Site is also located in close proximity to Credit River, and thus the groundwater flow may have a southwesterly component in this portion of the Study Area, which may mitigate the potential for impacts from the reported location of the fuel oil UST at the upgradient property located at 1171 Stavebank Rd.

6.3 Linear Works

Though it is understood that there will be linear works connecting the proposed shaft sites, because the alignment for the linear works has not been confirmed at this stage, no APECs have been assigned to those locations.

However, it is noted that some PCAs have been identified at properties in the greater study area and that these PCAs may be associated with elevated risk of environmental impacts at locations nearby. These PCAs at the following properties should be considered in the planning process for selection of the preferred alignment:

- 15 Hurontario St. – Record of Site Condition for change from commercial to residential use
- 20 Rosewood Ave. – fuel spills and fuel tank
- 114 Lakeshore Rd. East – historical gasoline service station
- 136-138 Lakeshore Rd. E. – historical gasoline service station
- 142-152 Lakeshore Rd. E. – historical railway siding
- 150 Lakeshore Rd. E. – fuel tanks, fuel spills, gasoline service station
- 156/158 Lakeshore Rd E. – fuel tanks
- 160 Lakeshore Rd. E. – fuel tanks
- 170 Lakeshore Rd. E. – historical use as a gasoline service station and automotive garage
- 80 High St. – fuel tanks
- 68 Hurontario St. – historical underground fuel tank
- 141 Lakeshore Rd. E. – historical records regarding industrial use, fuel tanks, rail lines/spurs
- General area – imported fill

Figures 5a through 5e illustrate the identified PCAs on the subject sites and vicinity (where applicable) and should be reviewed during route selection.

It is further noted that the list above is not exhaustive as the scope of this ESA was limited to a certain study area based on the location of the shaft sites. There may be other PCAs present on lands that were not subject to records review or data searches outside of the proposed shaft Sites.

DRAFT

7. CONCLUSIONS

This Phase One Environmental Site Assessment (ESA) was completed to identify potential and/or actual environmental concerns associated with eight (8) Sites of proposed shaft locations resulting from land use activities, whether current or historical and whether those occurred on Sites or on nearby lands. It is our understanding that this Phase One ESA is conducted to support construction shaft site selection which may involve property transfer and/or easement creation and that it is not required to support a Record of Site Condition (RSC) under Ontario Regulation (O. Reg.) 153/04 (as amended).

The information collected as part of this investigation indicates that the potential for environmental impacts at several of the proposed shaft Sites are considered to exist. Nine APECs at the proposed Sites have been identified as summarized in Table 6. To confirm the quality of soil and groundwater at the proposed shaft locations, additional investigation involving sampling and laboratory analysis of soil and groundwater for identified PCOCs is recommended.

8. RECOMMENDATIONS

Based on the findings of this Phase One Environmental Site Assessment concerning the construction shaft Sites proposed as part of the Port Credit East integrated water and wastewater optimization strategy, GMBP make the following recommendations:

1. Shaft sites LAK_3, ROS_1, HIA_8, ELM_5 and ELM_6 are recommended to be subject to additional investigation in the form of a Phase Two Environmental Site Assessment to determine, with greater certainty:
    - Whether impacts are present to soil and/or groundwater,
    - How the impacts may affect construction dewatering and discharge water management, and/or
    - Provide soil quality assessment for the purposes of developing an Excess Soil Management Plan.
2. For the purposes of Excess Soil Management under O.Reg. 406/19:
    a. All sites are recommended to be investigated for soil quality (whether in a standalone investigation or as part of the Phase Two Environmental Site Assessment)
    b. The following Shaft sites are considered to be “enhanced investigation project areas”: ROS_1 (industrial use – sewage pumping station), ELM_5 (industrial use – St. Lawrence Starch Co. Ltd.), HIA_8 (industrial use – sewage pumping station), LAK_3 (potential commercial automotive use associated with used car lot)
3. The additional investigations should be scoped to target the environmental media and potential contaminants of concern (PCOCs) identified by this Phase One ESA and to meet requirements of O. Reg. 406/19.
4. It is recommended that permission be obtained from City of Mississauga to collect groundwater samples from Site LAK_3, provided the existing monitoring wells are accessible and are in good condition to complete the required sampling.

All of which is respectfully submitted,

GM BLUEPLAN ENGINEERING LIMITED
Per:

DRAFT

Mark Ongarato, B. Sc.

DRAFT

Matthew Long, M.Eng., P.Eng.

DRAFT

Joanna Olesiuk, M.A.Sc., C. Tech., P. Geo. (Limited)

9. STATEMENT OF LIMITATIONS

The information presented in this Phase One ESA report is intended for the sole use of the Region of Peel. GM BluePlan Engineering Limited accepts no liability for use of this information by third parties. Any decisions made by third parties on the basis of information provided in this report are made at the sole risk of the third parties.

The scope of this Phase One ESA was limited to a review of the history of the Sites; a review of available regional mapping and available background reports and information (including prior Phase One ESA and other reports provided by the Region of Peel); surface/topographic features; contact with relevant regulatory agencies; review of available historical records and reports and a site reconnaissance completed on September 12, 2022. This Phase One ESA assumes that a Record of Site Condition (RSC) under O. Reg. 153/04 (as amended) is not required to be filed for this property.

GM BluePlan Engineering Limited cannot guarantee the accuracy or reliability of information provided by others or presented in records and reports available for the property. GM BluePlan Engineering Limited does not accept liability for unknown, unidentified, undisclosed or unforeseen surface or sub-surface contamination that may be later identified.

The scope of this Phase One ESA was limited to investigating the actual or potential sources of environmental impact or environmental risk and does not include full confirmation of actual environmental impact or environmental risk. While comments have been made regarding the inferred groundwater flow direction and the perceived risks of potential environmental concerns to soil and groundwater at the Site from onsite or offsite sources, full confirmatory assessment of soil and groundwater conditions is beyond the scope of this assessment. Further, while comments have been made regarding the perceived risks of potential environmental concerns, a complete risk assessment is beyond the scope of this report.

This report is believed to provide documentation of site conditions as of September 12, 2022.

DRAFT

10. REFERENCES

Cole Engineering Group Ltd. 2017. Various Sewage Pumping Stations Hydrogeological Investigation Report

City of Mississauga. 2022. Mississauga Maps GIS: Aerial Photographs. Available online at http://www6.mississauga.ca/missmaps/maps.aspx

GeoPro Consulting Limited. 2017. Geotechnical Investigation Proposed Rosemere Road Sewage Pumping Station City of Mississauga, Region of Peel, Ontario

GM BluePlan Engineering Ltd. 2022. Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule C Municipal Class Environmental Assessment. DRAFT Phase 2 Report.

Golder Associates Ltd. 2022. Background Hydrogeological Report. Port Credit East Wastewater Servicing Optimization Class EA.

Golder Associates Ltd. 2022. Geotechnical Desktop Study Report Elmwood, Hiawatha, and Rosemere Municipal Class EA, Port Credit, Mississauga, ON.

Heritage Mississauga. 2022. Available online at: https://heritagemississauga.com/

Fortin, M. 2005. Ontario Waste Disposal Site Inventory: Geospatial Data. University of Toronto.

Ontario Ministry of the Environment, Conservation and Parks. 2022. Interactive Well Records Database. Accessible at https://www.ontario.ca/environment-and-energy/map-well-records

Ontario Ministry of the Environment, Conservation and Parks. 2022c. Hazardous Waste Information Network. Accessed at https://www.hwin.ca/hwin/

Stantec. 2021. Phase I Environmental Site Assessment. Section of Lakeshore Road East, Between Front Street and Elmwood Avenue, Mississauga, Ontario.

Region of Peel. 2022. Official Plan Landfill Mapping. Available at: https://www.peelregion.ca/officialplan/review/pdf/all-figures-consolidated.pdf

DRAFT

Study Area
SPS Property
Phase One ESA Site Assessment Area
Phase One ESA Search Buffer (100m)

General Features

Parcels
Waterbody
Parks

ROS_1
ROS_2
LAK_3
ELM_4
ELM_5
ELM_6
HIA_7
HIA_8

Credit River
Kenollie Creek
Mary Fix Creek
Lake Ontario

Minaki Rd
Woodland Ave
Veronica Dr
Cotton Dr
Vesta Dr
Mona Rd
Inglewood Dr
Oriole Ave
Old River Rd
Hurontario St
20 Mineola Rd
Argreen Rd
Crossfield Bend
Minnewaska Trail
Broadmoor Ave
Lakebreeze Dr
Windy Oaks
Angelene St
Drumgray Ave
Eaglewood Blvd
Troy St
Spruce Park
Niar Ave
Canterbury Rd
Claredale Rd
Northaven Dr
Marf Ave
Revus Ave
Iroquois Ave
Seneca Ave
Roosevelt Rd
Shaw Dr
Beachcomber Rd
Enola Ave
Beechwood Ave
Richey Cres
Private Rd
The Thicket
Minnewawa Rd
Wenonah Dr
Onaway Rd
Cumberland Dr
Hiawatha Pky
Wanita Rd
Tecumseth Ave
Cayuga Ave
Mohawk Ave
Brant Ave
Briarwood Ave
Oakwood Ave
Woodlawn Ave
Forest Ave
Rosewood Ave
Harold E. Kennedy
Compass Way
Waterside Dr
St Lawrence Dr
Elmwood Ave
Oakwood Ave
St. Lawrence Park
Lakeshore Rd
Queen St
Kane Rd
Mississauga Rd
Park St
Peter St
Memorial Park
Elizabeth St
Helene St
Ann St
High St
Wesley Ave
Front St
John St
Port St
Bay St
Lake St
Stavebank Rd

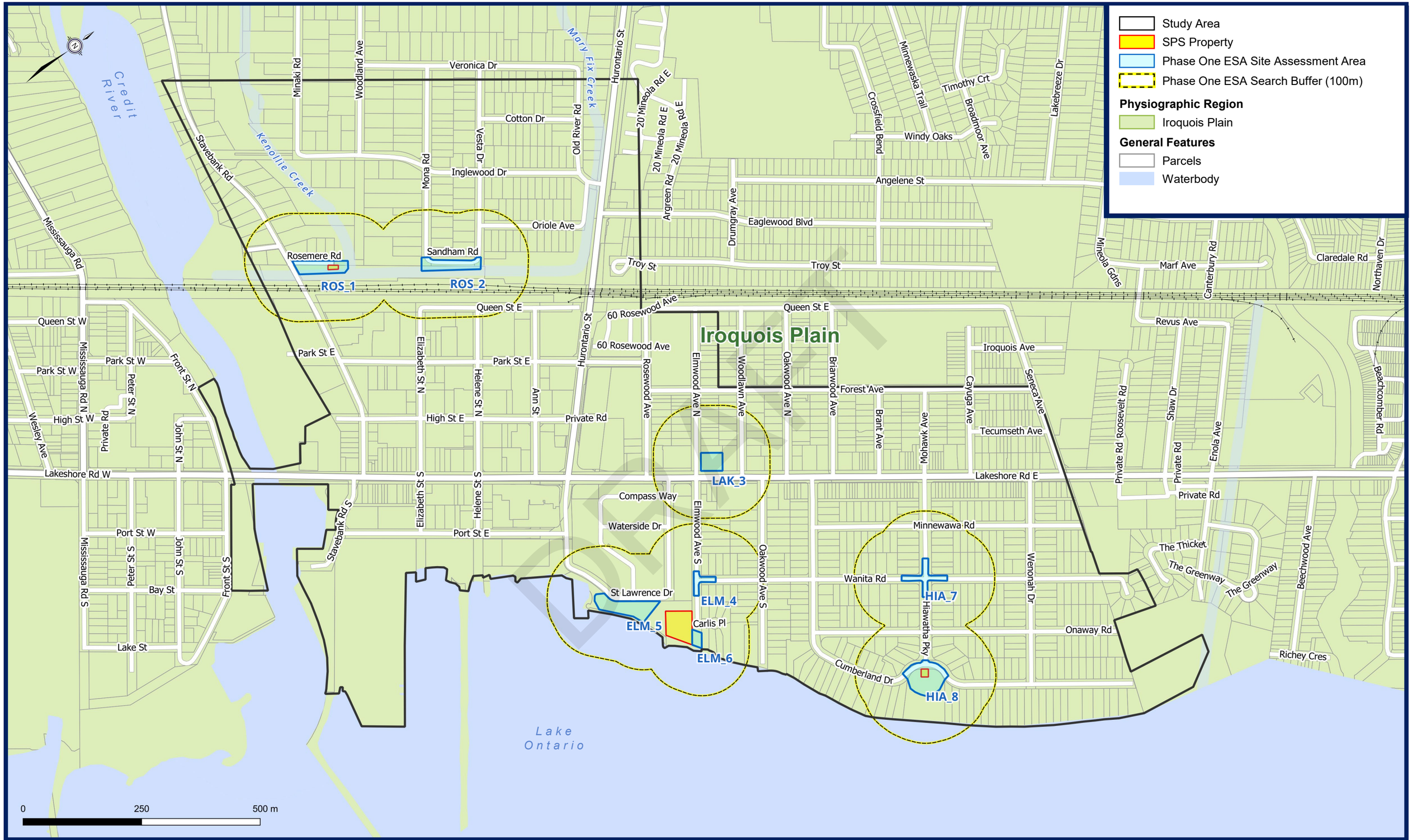
0 250 500 m

Region of Peel working with you

Phase One ESA: Potential Shaft Sites Overview (Figure 1)
Port Credit East Water and Wastewater Servicing Optimization Strategy (Schedule C Class EA)

BluePlan Engineering

October 2022
719033-013
Projection EPSG: 26917



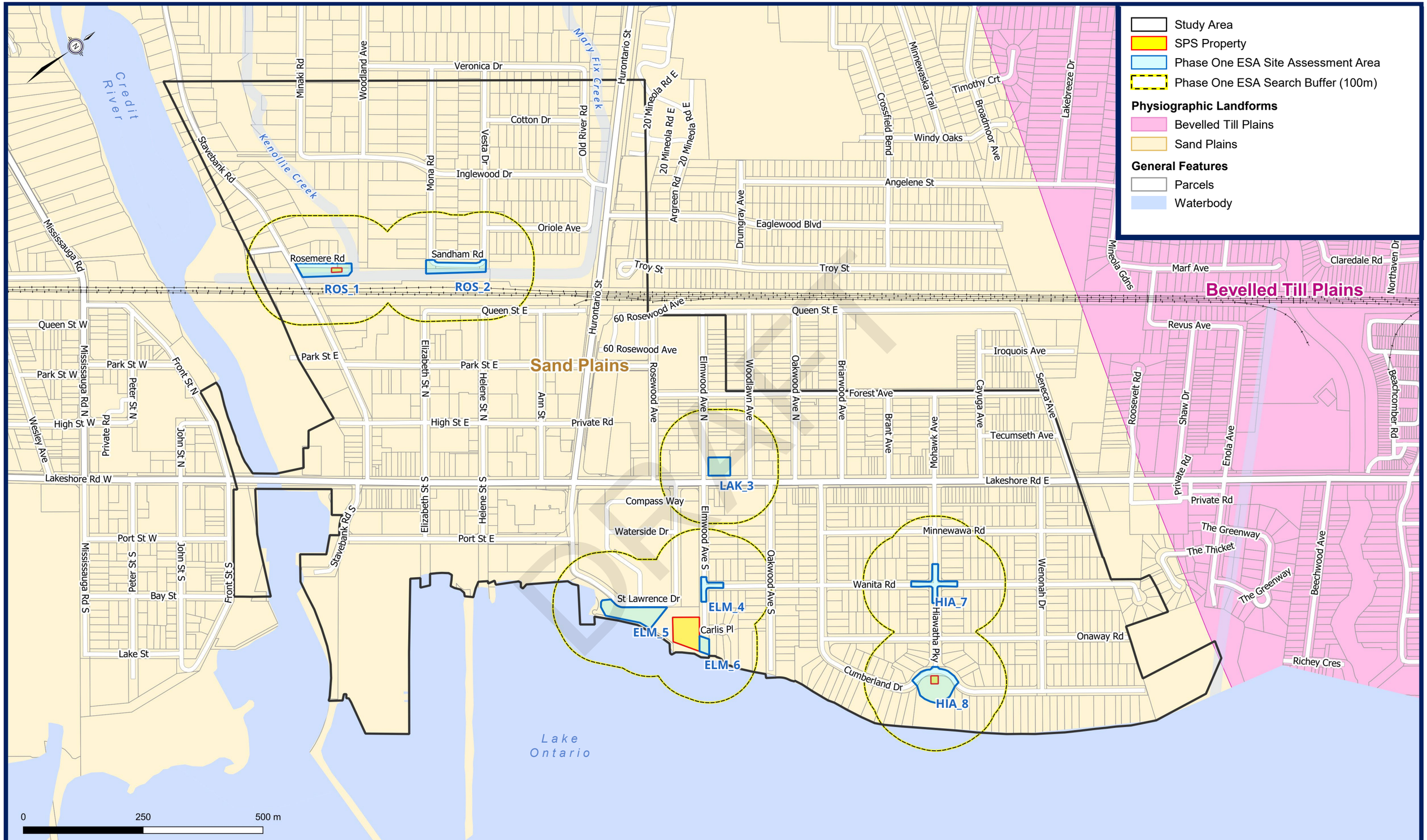
Region of Peel working with you

Phase One ESA: Physiographic Regions (Figure 2)

Port Credit East Water and Wastewater Servicing Optimization Strategy (Schedule C Class EA)

BluePlan ENGINEERING

October 2022
719033-013
Projection EPSG: 26917



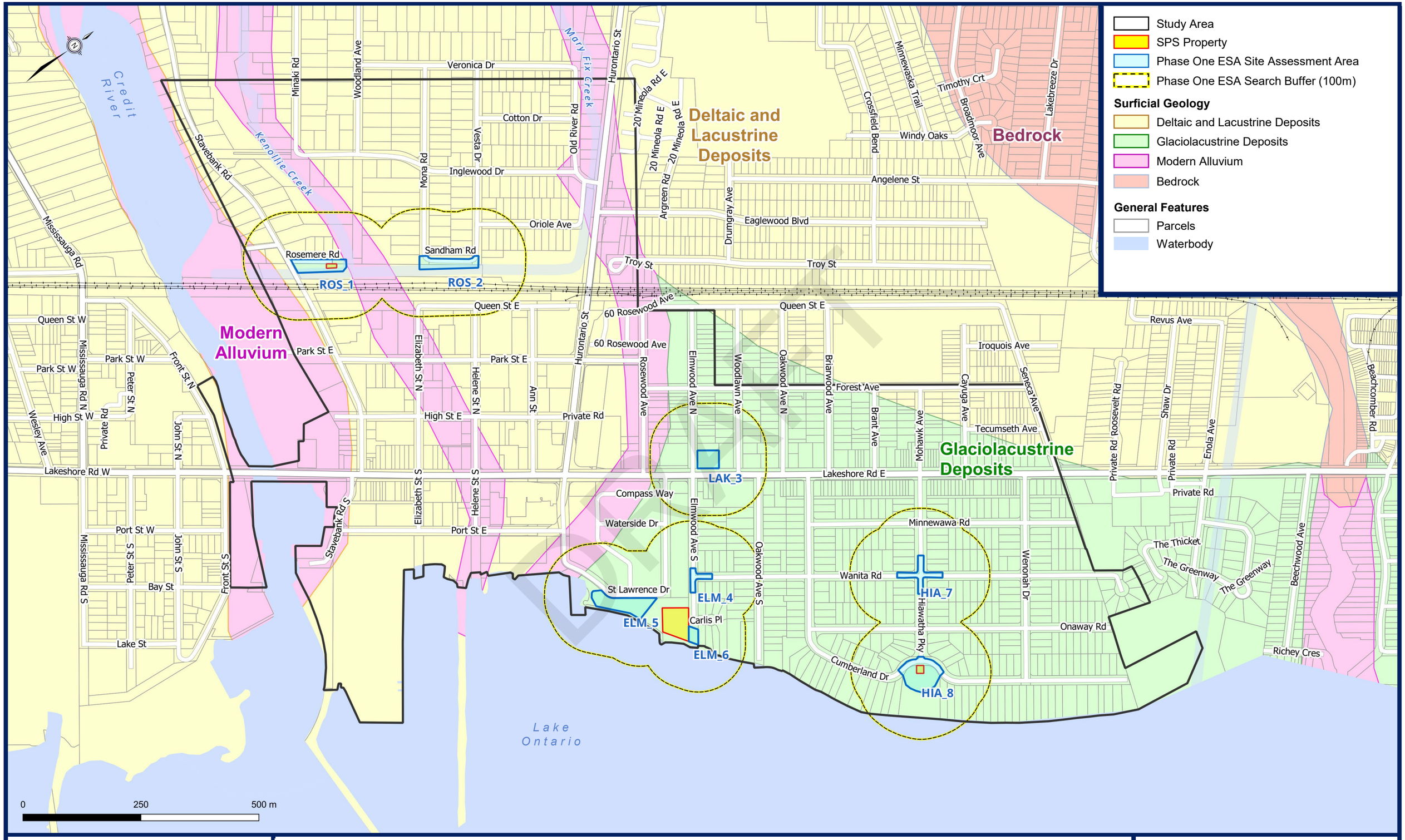
Region of Peel
working with you

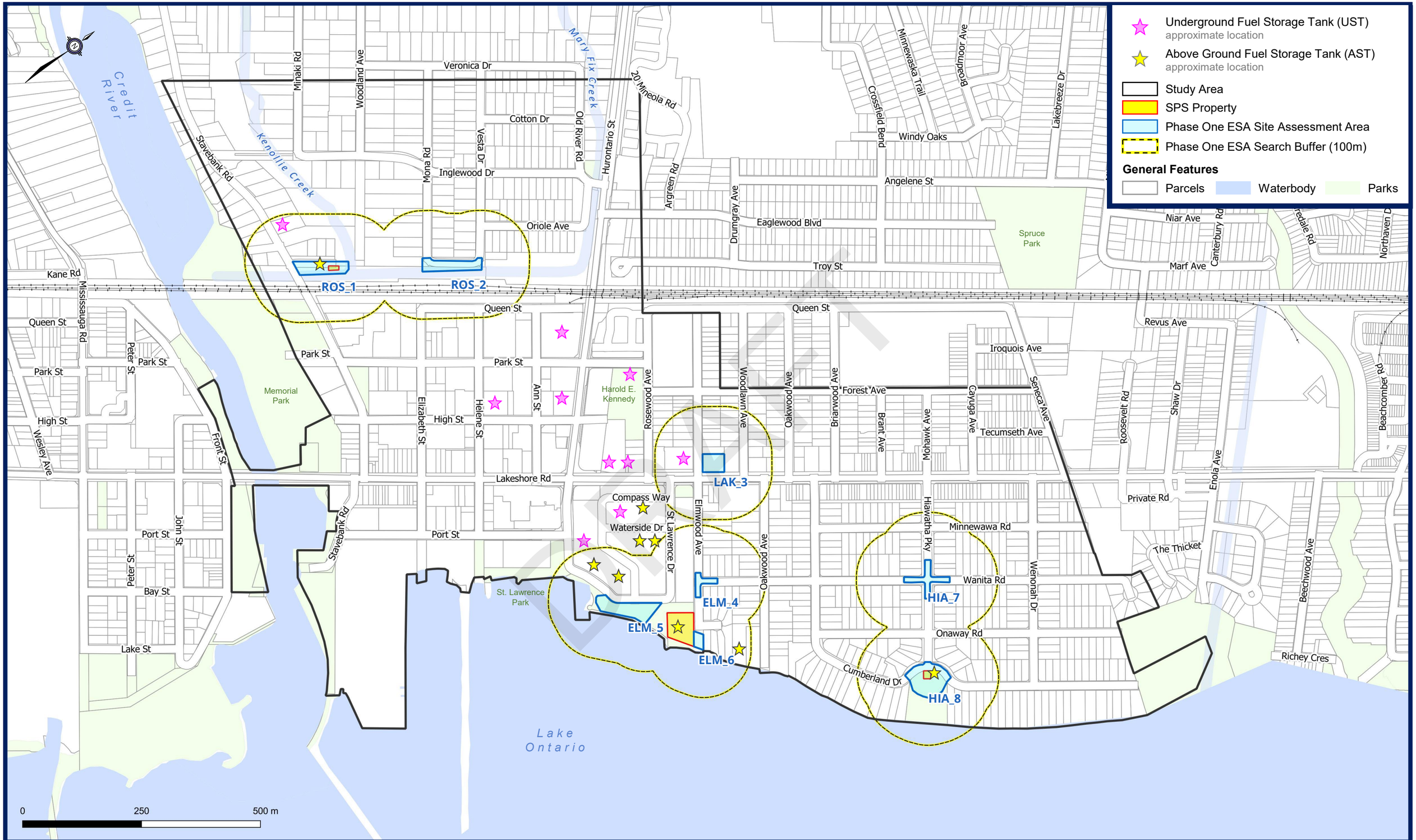
Phase One ESA: Physiographic Landforms (Figure 3)

Port Credit East Water and Wastewater Servicing Optimization Strategy (Schedule C Class EA)

BluePlan ENGINEERING

October 2022
719033-013
Projection EPSG: 26917


Study Area
SPS Property
Phase One ESA Site Assessment Area
Phase One ESA Search Buffer (100m)
Surficial Geology
Deltaic and Lacustrine Deposits
Glaciolacustrine Deposits
Modern Alluvium
Bedrock
General Features
Parcels
Waterbody
Credit River
Mary Fix Creek
Kenollie Creek
Lake Ontario
Modern Alluvium
Deltaic and Lacustrine Deposits
Bedrock
Glaciolacustrine Deposits
ROS_1
ROS_2
LAK_3
ELM_4
ELM_5
ELM_6
HIA_7
HIA_8
Veronica Dr
Cotton Dr
Inglewood Dr
Oriole Ave
Rosemere Rd
Sandham Rd
Troy St
Angelene St
Eaglewood Blvd
Windy Oaks
Timothy Crt
Broadmoor Ave
Crossfield Bend
Minnewaska Trail
Lakebreeze Dr
Queen St E
Queen St W
60 Rosewood Ave
Park St E
Park St W
High St E
High St W
Private Rd
Forest Ave
Iroquois Ave
Revus Ave
Seneca Ave
Cayuga Ave
Tecumseth Ave
Brant Ave
Mohawk Ave
Lakeshore Rd E
Lakeshore Rd W
Compass Way
Waterside Dr
Port St E
Port St W
Bay St
Lake St
Minnewawa Rd
Wanita Rd
Onaway Rd
Cumberland Dr
St Lawrence Dr
Carlis Pl
The Thicket
The Greenway
Richey Cres
Beachcomber Rd
Beechwood Ave
Enola Ave
Shaw Dr
Wenonah Dr
Hiawatha Pky
Oakwood Ave S
Elmwood Ave S
Woodlawn Ave
Rosewood Ave
Briarwood Ave
Oakwood Ave N
Elmwood Ave N
Argreen Rd
Drumgray Ave
20 Mineola Rd E
Hurontario St
Old River Rd
Vesta Dr
Mona Rd
Woodland Ave
Minaki Rd
Stavebank Rd
Mississauga Rd
Front St N
Front St S
Peter St N
Peter St S
John St N
John St S
Mississauga Rd N
Mississauga Rd S
Private Rd
Wesley Ave
Elizabeth St N
Elizabeth St S
Helene St N
Helene St S
Ann St
Stavebank Rd S
0
250
500 m
Region of Peel
working with you
Phase One ESA: Surficial Geology (Figure 4)
Port Credit East Water and Wastewater Servicing Optimization Strategy (Schedule C Class EA)
BluePlan ENGINEERING
October 2022
719033-013
Projection EPSG: 26917



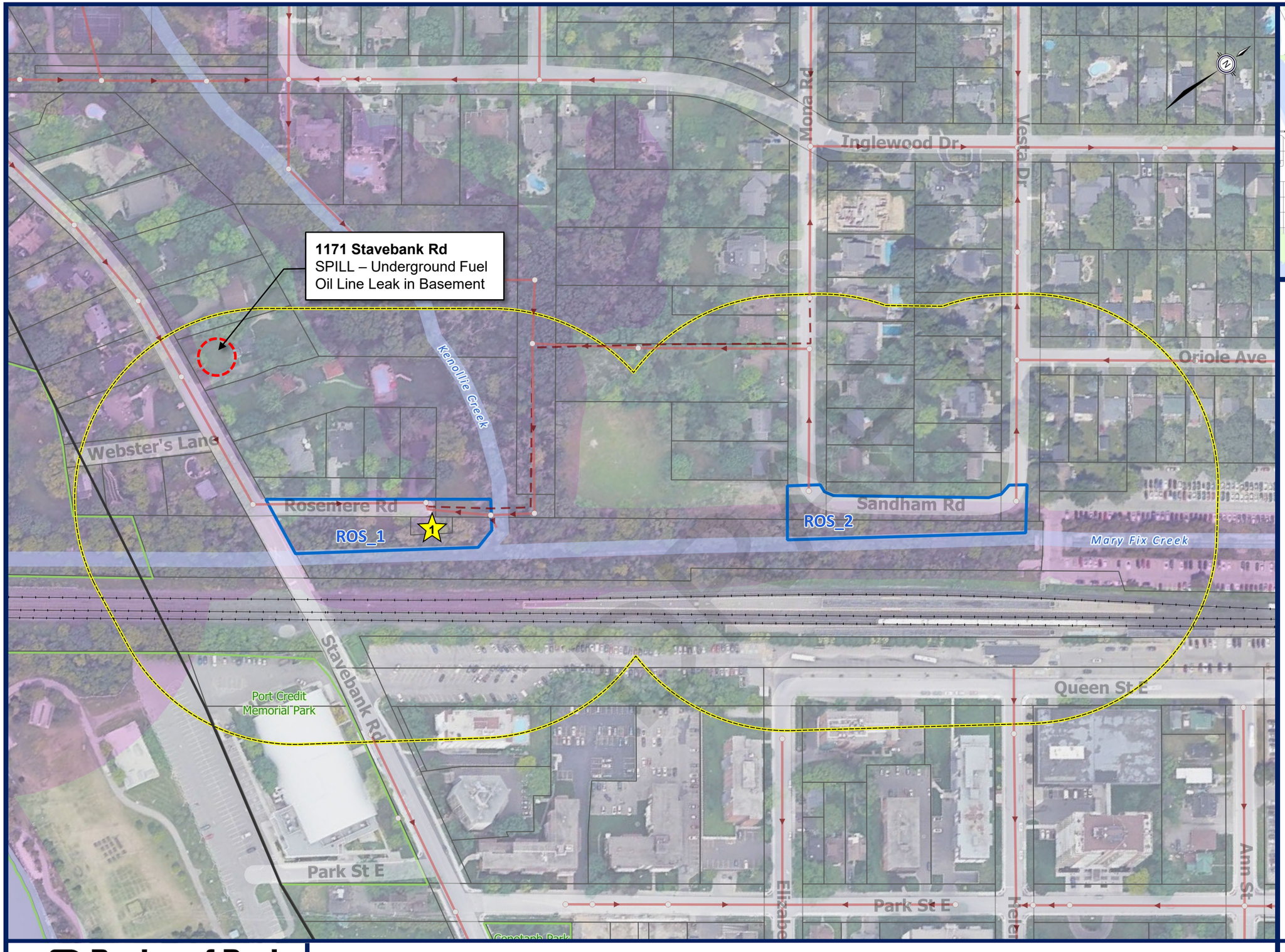
Region of Peel working with you

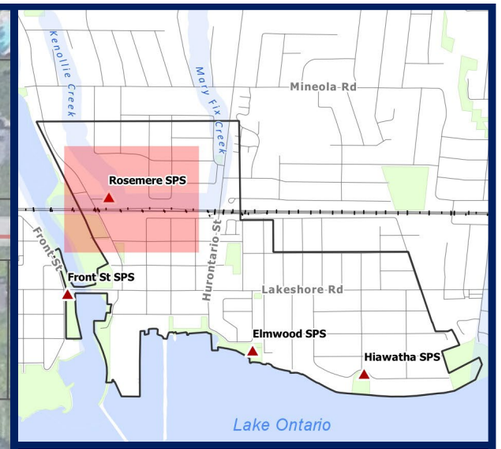
Phase One ESA: Potentially Contaminating Activities (Figure 5a)

Port Credit East Water and Wastewater Servicing Optimization Strategy (Schedule C Class EA)

BluePlan Engineering

October 2022
719033-013
Projection EPSG: 26917





- Underground Fuel Storage Tank (UST) approximate location
- Above Ground Fuel Storage Tank (AST) approximate location
- Study Area
- SPS Property
- Phase One ESA Site Assessment Area
- Phase One ESA Search Buffer (100m)

Existing Wastewater Infrastructure

- Maintenance Hole
- Forcemains
- Gravity Sewers

General Features

- Parcels
- Parks
- Waterbody and Watercourses
- CVC Regulation Limits

Region of Peel
working with you

Phase One ESA: Potentially Contaminating Activities – Rosemere (Figure 5b)

Port Credit East Water and Wastewater Servicing Optimization Strategy (Schedule C Class EA)

BluePlan ENGINEERING

October 2022
719033-013
Projection EPSG: 26917

58 Hurontario St.

20 Rosewood Ave
SPILL – UST hit by backhoe resulting in 500L fuel oil spill (2010)

150 Lakeshore Rd E
Active car wash

80 High St

158 Lakeshore Rd E
Historical operation of a retail fuel outlet with numerous USTs

156 Lakeshore Rd E
Historical gas station

136-138 Lakeshore Rd E
Historical gas station

150 Lakeshore Rd E
SPILL – Historical gas leak of unknown quantity

114 Lakeshore Rd E
Historical gas station

150 Lakeshore Rd E
Active gas station

170 Lakeshore Rd E
Historical automotive facility, USTs

Used car lot

144-152 Lakeshore Rd E
Historical railway siding (along west property line)

LAK_3

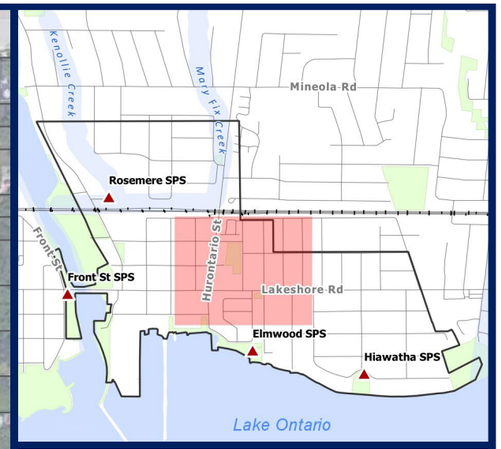
200 Lakeshore Rd E
SPILL – 15L of gas spill to asphalt

195 Lakeshore Rd E
Active laundromat

141 Lakeshore Rd E
- Historical St. Lawrence Starch Facility.
- Multiple petroleum ASTs, USTs, and several historical railway sidings.

160 Lakeshore Rd E
Historical and current automotive facility, USTs, and hazardous waste generation and storage

Park St E
High St E
Private Port St E
Lakeshore Rd E
Waterside Dr
Forest Ave
Hurontario St
Ann St
Rosewood Ave
60 Rosewood Ave
Elmwood Ave
Woodlawn Ave
Oakwood Ave N
St Lawrence
Compass Way
Harold E. Kennedy Park



Underground Fuel Storage Tank (UST) approximate location

Above Ground Fuel Storage Tank (AST) approximate location

Study Area

SPS Property

Phase One ESA Site Assessment Area

Phase One ESA Search Buffer (100m)

Existing Wastewater Infrastructure

Maintenance Hole

Forcemains

Gravity Sewers

General Features

Parcels

Parks

Waterbody and Watercourses

CVC Regulation Limits

Region of Peel working with you

Phase One ESA: Potentially Contaminating Activities – Lakeshore Road (Figure 5c)

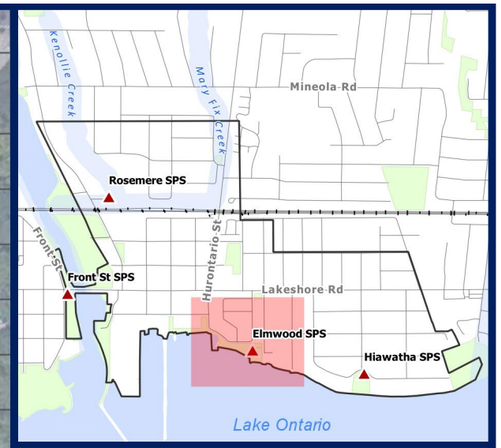
Port Credit East Water and Wastewater Servicing Optimization Strategy (Schedule C Class EA)

BluePlan Engineering

October 2022
719033-013
Projection EPSG: 26917

141 Lakeshore Rd E
- Historical St. Lawrence Starch Facility.
- Multiple petroleum ASTs, USTs, and several historical railway sidings.

56 Oakwood Ave
SPILL – Residential Fuel Spill of UST



Underground Fuel Storage Tank (UST) approximate location

Above Ground Fuel Storage Tank (AST) approximate location

Study Area

SPS Property

Phase One ESA Site Assessment Area

Phase One ESA Search Buffer (100m)

Existing Wastewater Infrastructure

Maintenance Hole

Forcemains

Gravity Sewers

General Features

Parcels

Parks

Waterbody and Watercourses

CVC Regulation Limits

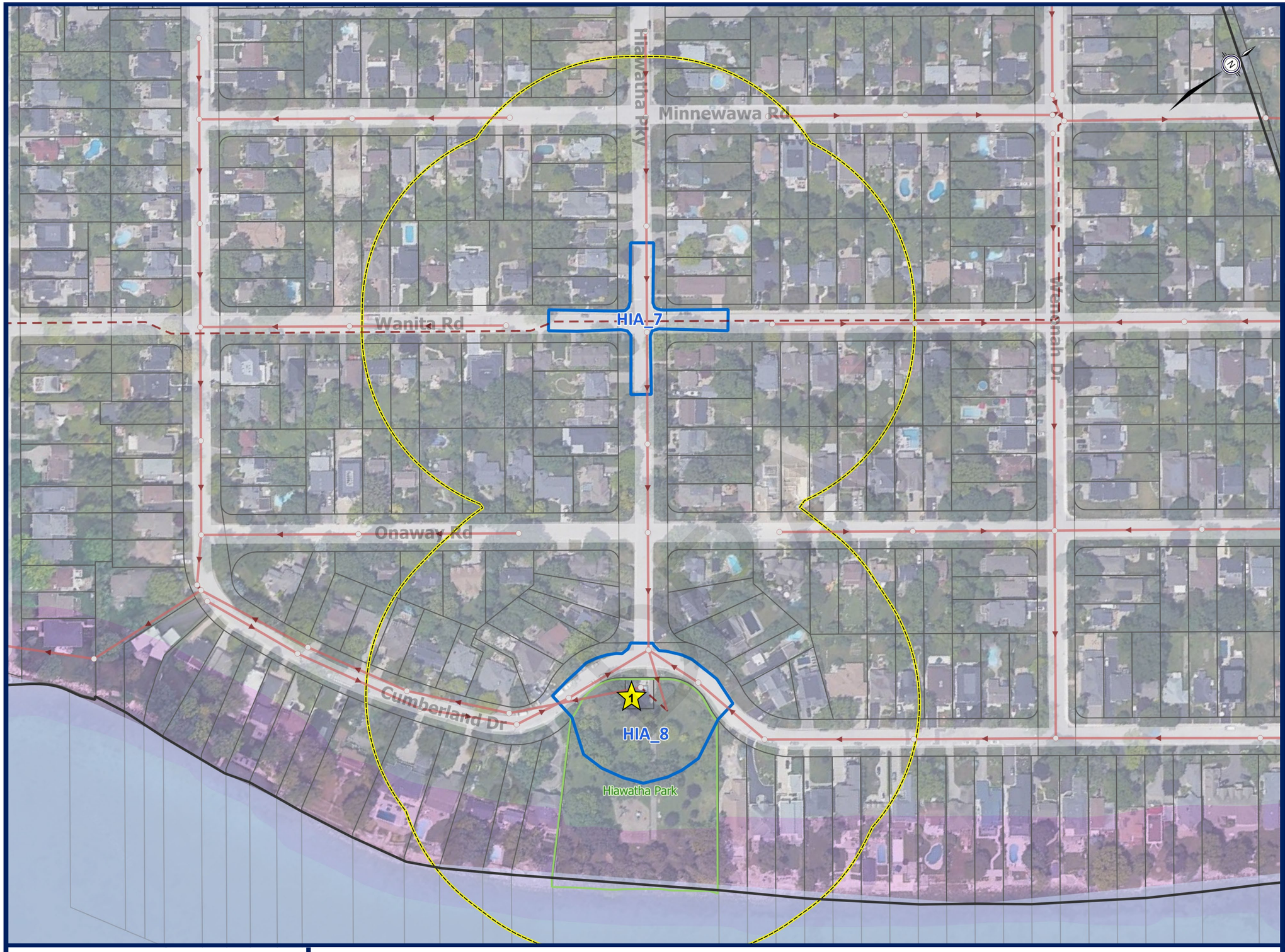
Region of Peel working with you

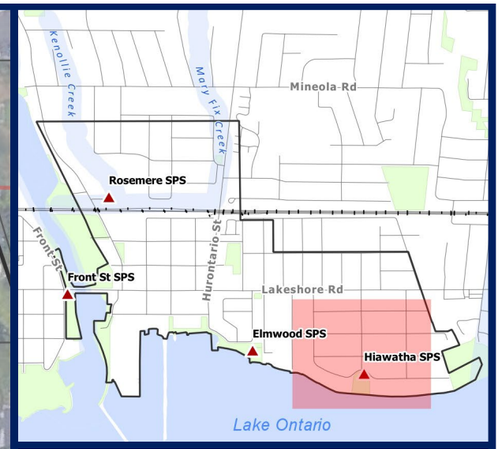
Phase One ESA: Potentially Contaminating Activities – Elmwood (Figure 5d)

Port Credit East Water and Wastewater Servicing Optimization Strategy (Schedule C Class EA)

BluePlan Engineering

October 2022
719033-013
Projection EPSG: 26917





Underground Fuel Storage Tank (UST) approximate location

Above Ground Fuel Storage Tank (AST) approximate location

Study Area

SPS Property

Phase One ESA Site Assessment Area

Phase One ESA Search Buffer (100m)

Existing Wastewater Infrastructure

Maintenance Hole

Forcemains

Gravity Sewers

General Features

Parcels

Parks

Waterbody and Watercourses

CVC Regulation Limits

Region of Peel
working with you

Phase One ESA: Potentially Contaminating Activities – Hiawatha (Figure 5e)

Port Credit East Water and Wastewater Servicing Optimization Strategy (Schedule C Class EA)

BluePlan ENGINEERING

October 2022
719033-013
Projection EPSG: 26917

APPENDIX A1:
FIRE INSURANCE PLANS SUMMARY

DRAFT

Date:	10/27/2022	File:	719033
To:	GMBP Team		
From:	Joanna Olesiuk		
Project:	Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule C Class Environmental Assessment		
Subject:	Fire Insurance Plans review notes for Phase One ESA		

TECHNICAL MEMO

For the purposes of this memo, the direction "north" means the direction along Hurontario Street toward Highway 403.

Notes:

- *UST - underground storage tank*
- *Addresses (where noted) are based on the addresses appearing on the FIPs, which may differ from currently assigned civic addresses*

Rosemere Rd. (and area); Sites ROS_1 and ROS_2

FIP Year and Sheet	Location	Results
Site		
1952 (Sheet 1921)	ROS_1- East of Stavebank Rd., north of CNR right-of-way	Site appears vacant. Rosemere Rd. does not appear to be present in 1952.
1952 (Sheet 1921)	ROS_2 – south of Sandham Road, north of CNR right-of-way	Sandham Road right-of-way.
Study Area		
1952 (Sheet 1921)	Sandham Road, Mona Road and Vesta Drive area, CNR right-of- way south of Site	Residential properties and CNR right-of-way (1952)

DRAFT

Site LAK_3 - Lakeshore Rd E (and surrounding area)

FIP Year and Sheet	Location	Results
Site		
1928 (Sheet 4)	Elmer Ave. N. and Lakeshore Rd. E	No address listed. Site appears vacant.
1952 (Sheet 1909)	Elmwood Ave. N. and Lakeshore Rd. E	Used car lot (no other details apparent on FIP for this property)
Study Area		
1928 (Sheet 4)	Elmer Ave. N. and Lakeshore Rd. E. area	Adjacent properties to the north and east appear developed with residential, or potentially commercial uses (no details apparent). 464 Toronto Road (inferred 162 Lakeshore Road, approximately 90 m southwest of site) – Garage with 2 USTs 440 Toronto Road (inferred 144 Lakeshore Road) (approximately 170 m southwest of site) – gasoline service station with what appear to be 2 USTs No address (approximately 380 m west of Site) – south of railway line – portion of railway right-of-way labelled as "Imperial Oil Limited" with 2 what appear to be vertical storage tanks, and structure labelled "oil pumping".
1928 (Sheet 4)	Hurontario and First St. (Troy St.)	2 properties with 3 USTs – northerly property labelled "Coad and Wood Yard) – approximately 460 m northwest of the Site
1928 (Sheet 8)	Toronto Road (Lakeshore Rd.)	St. Lawrence Starch Co. Ltd. – multiple buildings, several railroad sidings, coal storage area in the north part of property (fuel for property buildings identified as coal).
1952 (Sheet 1909)	170 and 162 Lakeshore Rd. E.	Gasoline Service Station/Elmwood Motors Limited (25 m to 90 west of Site) with 3 USTs at 170 Lakeshore Rd. E. (25 m west of Site).
July 1952 (Sheet 1908)	141 Lawrence Rd. E.	Location of St. Lawrence Starch Co. Ltd. - property bound by Hurontario/Lakeshore Rd. E/Elmwood Ave. S. consists of multiple buildings, several railroad sidings, 2-5,000 L fuel oil USTs, 500 L gasoline UST (approximately 200 m south of Site LAK_3)
1952 (Sheet 1909-05)	144, 152, 154 and 156 Lakeshore Road East	2 gasoline service stations with additional buildings (7 USTs in total at the 3 properties), 1 building labelled "Greasing" (properties bound by Orchard Ave. to the north, railway siding to the south) (approximately 140-170 m southwest of Site LAK_3)
1952 (Sheet 1907)	136 Lakeshore Rd. E	Bruce MacDougall Motors Used Car Lot with paint shop/garage and 2 USTs (corner of Lakeshore Rd. E. and Hurontario St., approximately 320 m southwest of LAK_3 and 300 m west/northwest of ELM_5)
1952 (Sheet 1907)	114 Lakeshore Rd. E	Gasoline Service Station – 3 USTs (corner of Helene St. N and Lakeshore Rd. E., approximately 450 m southwest of LAK_3)
1952 (Sheet 1922)	58 Hurontario	W.H. Thomson – multiple buildings, 1 UST (approximately 400 m west of LAK_3)

DRAFT

Elmwood Ave. S. (and area) Sites ELM_4, ELM_5 and ELM_6

FIP Year and Sheet	Location	Results
Site ELM_4		
1952 (Sheet 1908)	Elmwood Ave. S./Wanita Rd.	Elmwood Ave. S./Wanita Rd. right-of-way
Study Area		
1952 (Sheet 1908)	Elmwood Ave. S./Wanita Rd.	Residential and vacant land to the north and east, St. Lawrence. Starch Co. Ltd. Industrial property to the west and south
Site ELM_5		
1928 (Sheet 8) 1952 (Sheet 1908)	141 Lakeshore Rd. E.	Appears to be part of a storage yard for large industrial site (St. Lawrence Starch Co. Ltd.)
Study Area		
1928 (Sheet 8) 1952 (Sheet 1908)	South of Lakeshore Rd. E.	Lake Ontario shoreline to the south, inferred residential to the north
Site ELM_6		
1952 (Sheet 1908)	Elmwood Ave. and Lakeview Blvd.	Intersection of Elmwood Ave. and Lakeview Blvd. right-of-way, vacant land/Lake Ontario shoreline to south
Study Area		
1952 (Sheet 1908)	Elmwood Ave. and Lakeview Blvd.	Residential and vacant lands, Lake Ontario Shoreline

Hiawatha Pkwy. (and area): Sites HIA_7 and HIA_8

FIP Year and Sheet	Location	Results
Site HIA_7		
1928 (Sheet 1) 1952 (Sheet 1910)	Hiawatha Pkwy. and Wanita Rd.	Right-of-way in what appears to be a residential area
Study Area		
1928 (Sheet 1) 1952 (Sheet 1910)	Hiawatha Pkwy. and Wanita Rd.	Several properties in the Site vicinity are developed with what appear to be residential uses.
Site HIA_8		
1928 (Sheet 1)	Hiawatha Pkwy. and Cumberland Dr.	Cumberland Dr. and Hiawatha Pkwy. right-of-way, remainder of Site appears undeveloped based on limited detail presented on the FIP
1952 (Sheet 1910)		Structure labelled as “pump house” and vacant land (inferred parkland)
Study Area		
1928 (Sheet 1) 1952 (Sheet 1910)	Hiawatha Pkwy. and Cumberland Dr.	Residential and vacant land (inferred parkland)

Note: Some sheets of the 1910 FIP and 1928 FIP show limited detail and appear to be an index map with no additional detail sheets provided by Opta.

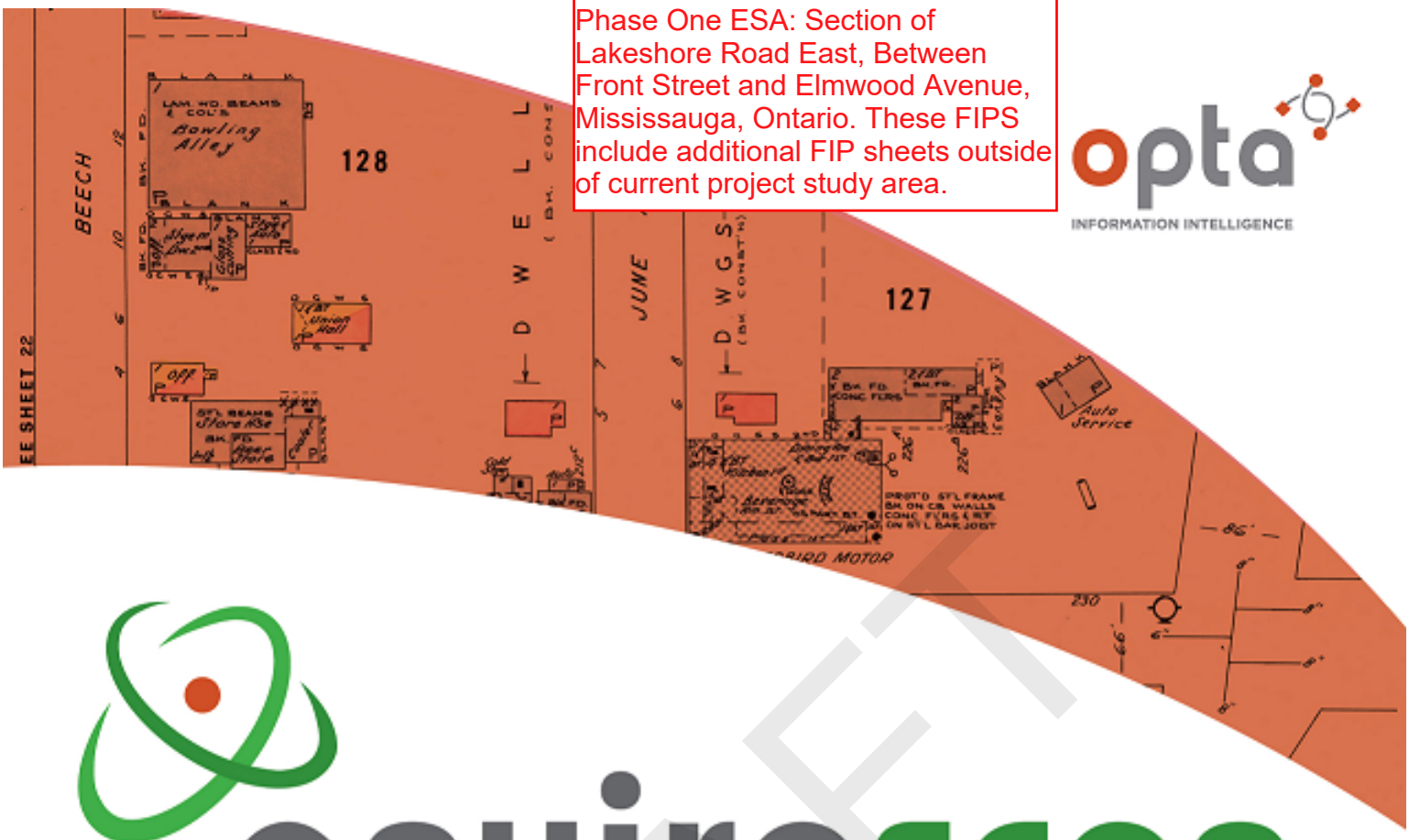
DRAFT

APPENDIX A2:
FIRE INSURANCE PLANS

DRAFT

FIPs obtained from Stantec 2021 Phase One ESA: Section of Lakeshore Road East, Between Front Street and Elmwood Avenue, Mississauga, Ontario. These FIPS include additional FIP sheets outside of current project study area.

opta
INFORMATION INTELLIGENCE



enviroscan

DRAFT

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Stephanie

Site Address:

43.55012 79.58731

Project No:

20310900227

Opta Order ID:

80490

Requested by:

Eleanor Goolab
Ecolog Eris

Date Completed:

11/13/2020 12:30:31 PM

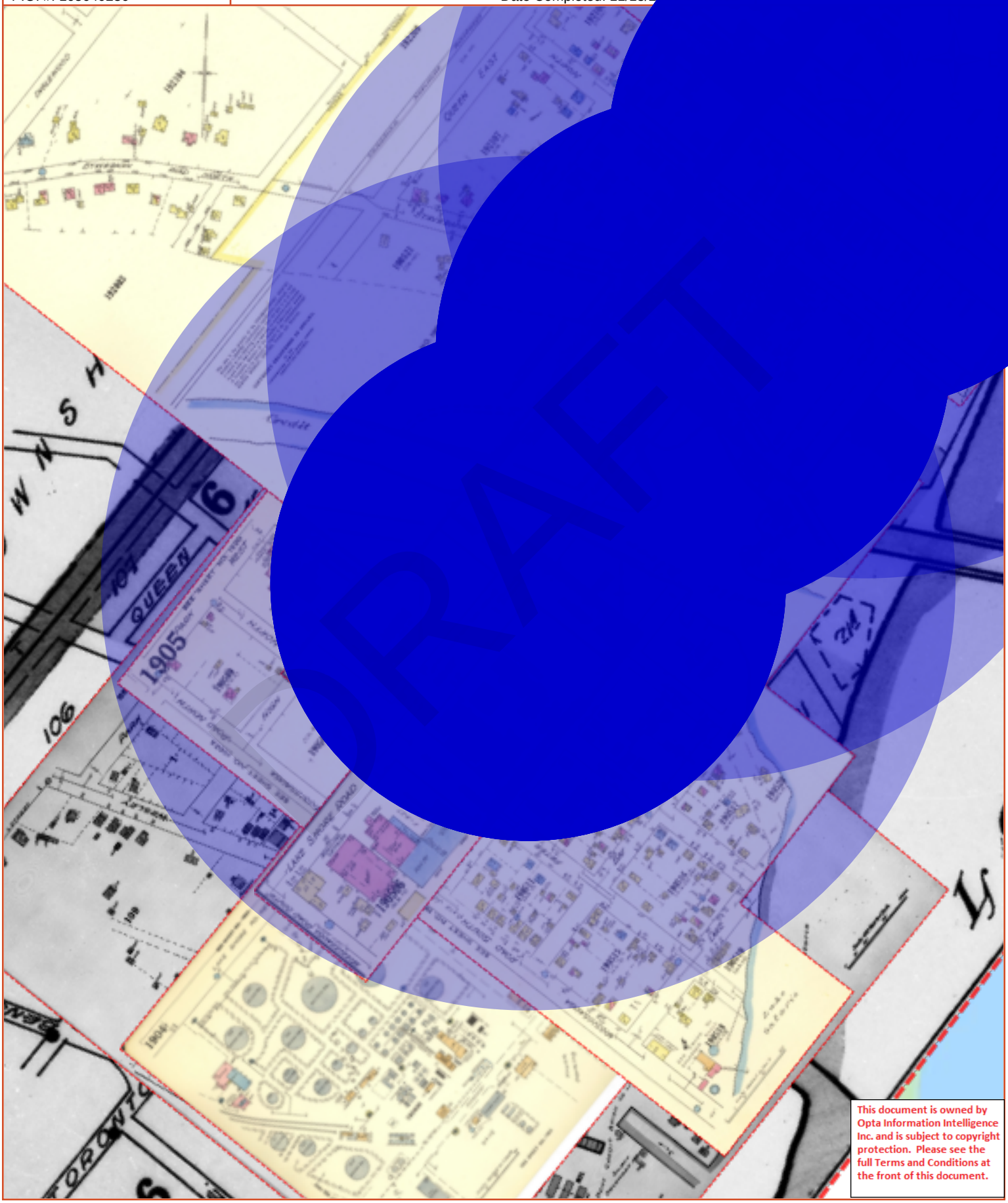
Project Name: Lakeshore Trunk

Project #: 20310900227
P.O. #: 165640286

ENVIROSCAN Report

Search Area: 43.55012 79.58731

Reques
Elear
Date Completed: 11/13/20



This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

DRAFT

ENVIROSCAN Report

Report Index

Page	Report Title
6	(1910) Volume: Ontario Miscellaneous Firemap: 1
8	(1910) Volume: Ontario Miscellaneous Firemap: 1
10	(1910) Volume: Port Credit Firemap: 2
12	(1910) Volume: Port Credit Firemap: 3
14	(1928) Volume: Ontario Miscellaneous Firemap: 1
16	(1928) Volume: Ontario Miscellaneous Firemap: 1
18	(1928) Volume: Port Credit Firemap: 2
20	(1928) Volume: Port Credit Firemap: 3
22	(1928) Volume: Port Credit Firemap: 4
24	(1928) Volume: Port Credit Firemap: 4
26	(1928) Volume: Port Credit Firemap: 7
28	(1928) Volume: Port Credit Firemap: 8
30	(1952) Volume: Toronto Volume 19 Firemap: 1904
32	(1952) Volume: Toronto Volume 19 Firemap: 1905
34	(1952) Volume: Toronto Volume 19 Firemap: 1905
36	(1952) Volume: Toronto Volume 19 Firemap: 1906
38	(1952) Volume: Toronto Volume 19 Firemap: 1907
40	(1952) Volume: Toronto Volume 19 Firemap: 1908
42	(1952) Volume: Toronto Volume 19 Firemap: 1909
44	(1952) Volume: Toronto Volume 19 Firemap: 1909
46	(1952) Volume: Toronto Volume 19 Firemap: 1909
48	(1952) Volume: Toronto Volume 19 Firemap: 1921
50	(1952) Volume: Toronto Volume 19 Firemap: 1922

DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1910 Volume: Ontario Miscellaneous Firemap: 1
Port Credit Plan: 1564 (1910)
Sheet: 1 (1910)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

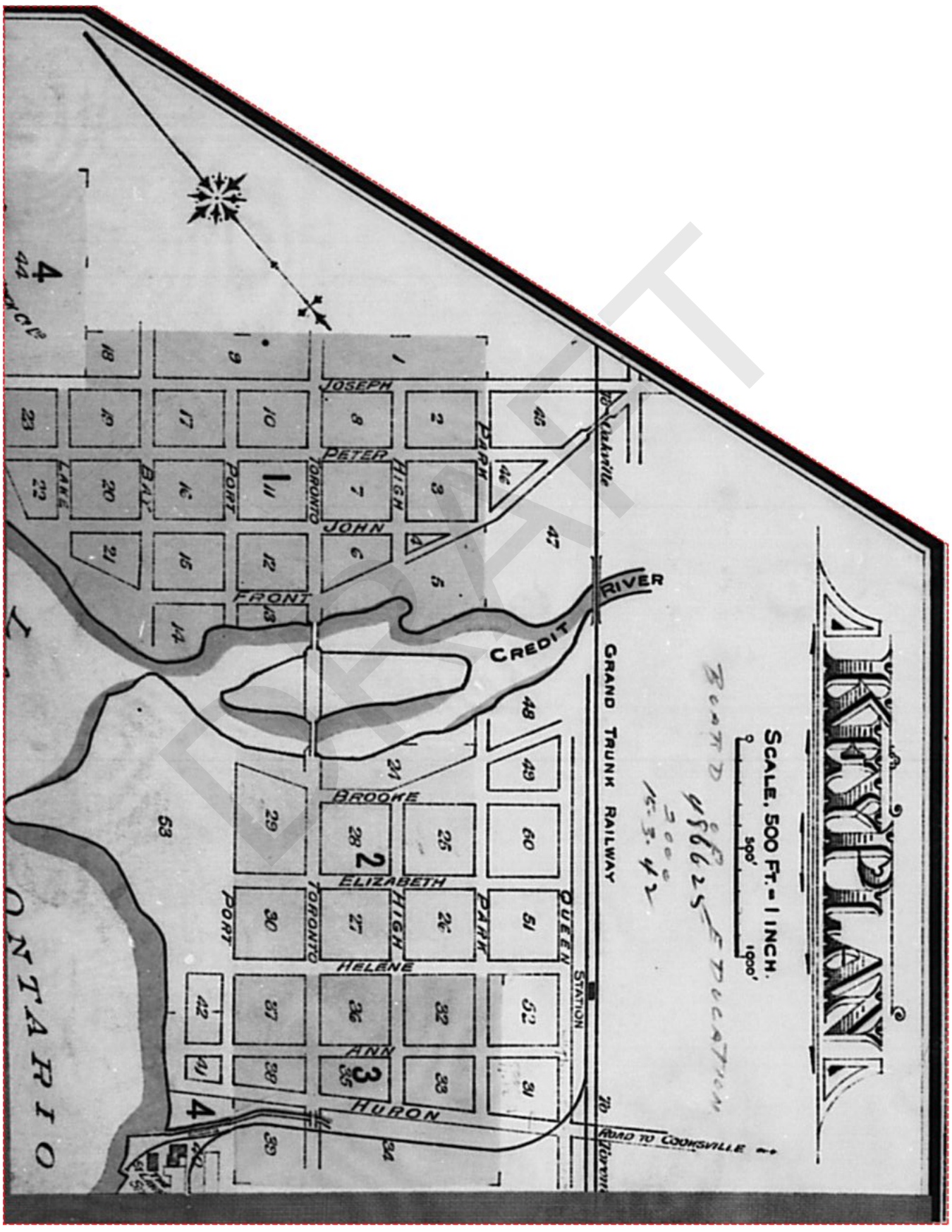
This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1910 Volume: Ontario Miscellaneous Firemap: 1
Port Credit Plan: 1564 (1910)
Sheet: 1 (1910)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

OPTA INFORMATION INTELLIGENCE



Project Name: Lakeshore Trunk

Project #: 20310900227
P.O. #: 165640286

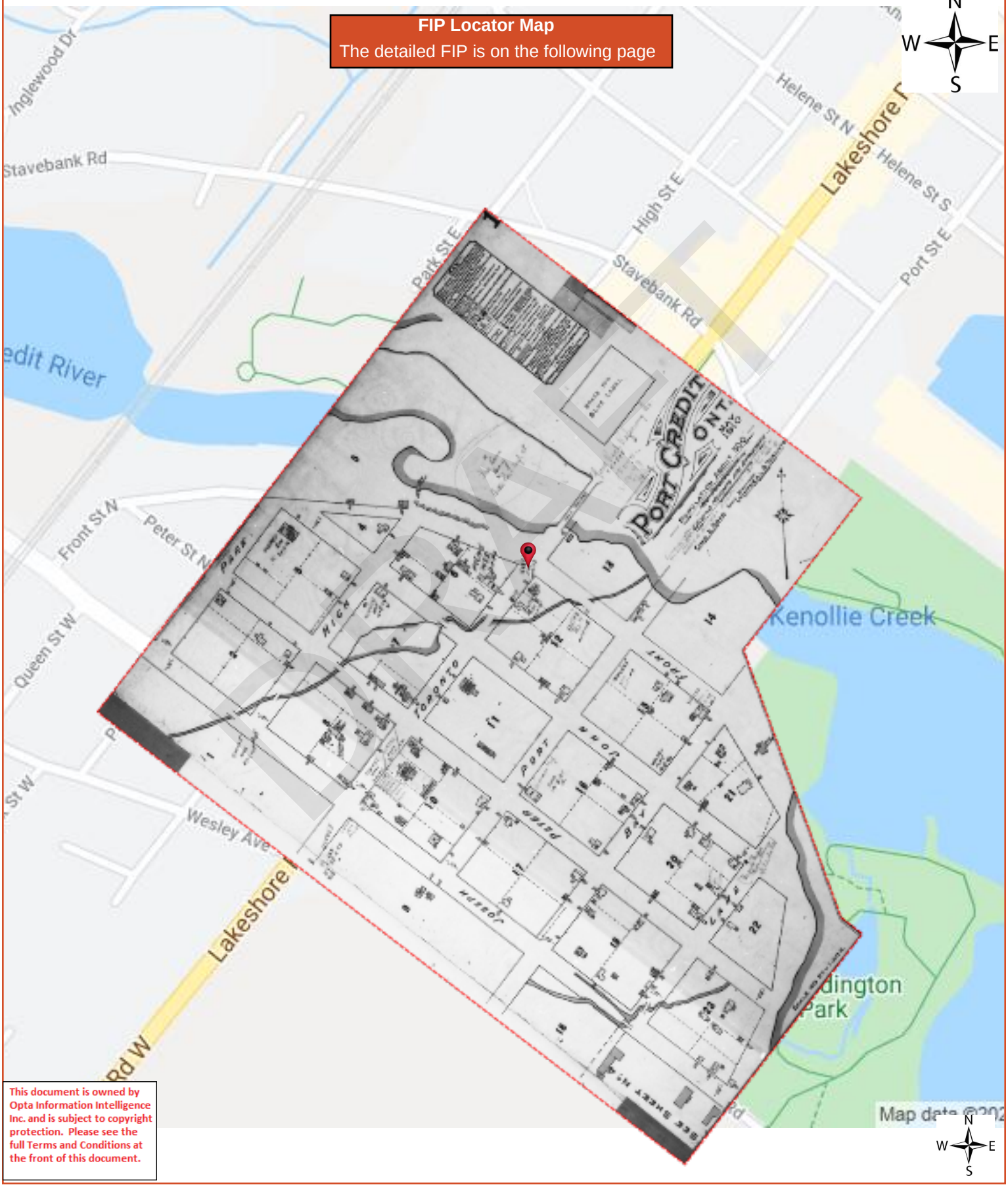
ENVIROSCAN Report

1910 Volume: Ontario Miscellaneous Firemap: 1
Port Credit Plan: 1564 (1910)
Sheet: 1 (1910)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



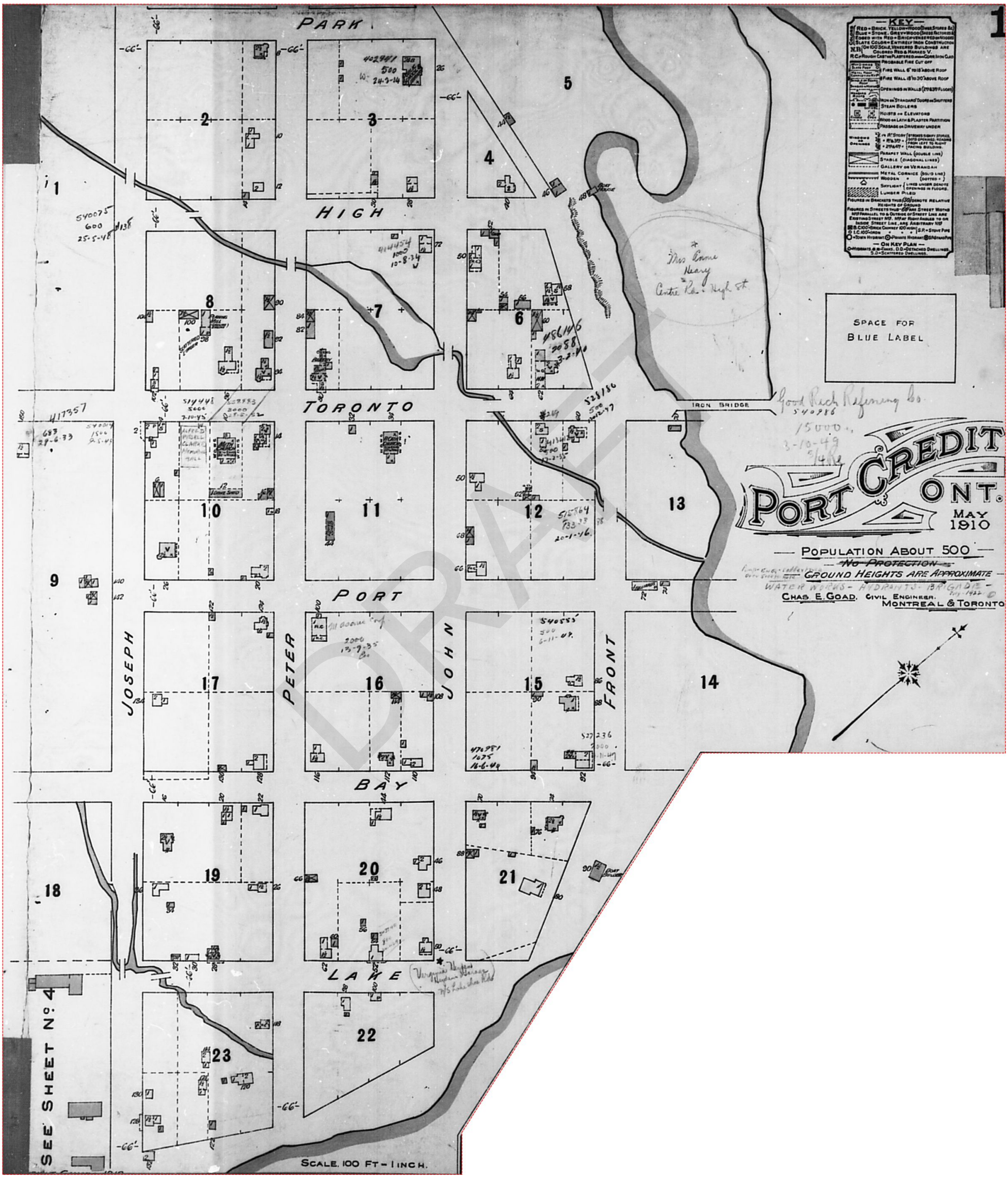
This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1910 Volume: Ontario Miscellaneous Firemap: 1
Port Credit Plan: 1564 (1910)
Sheet: 1 (1910)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

opta
INFORMATION INTELLIGENCE
OPTA INFORMATION INTELLIGENCE



DRAFT

ENVIROSCAN Report

1910 Volume: Port Credit Firemap: 2
Port Credit Plan: 1564 (1910)
Sheet: 2 (1910)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

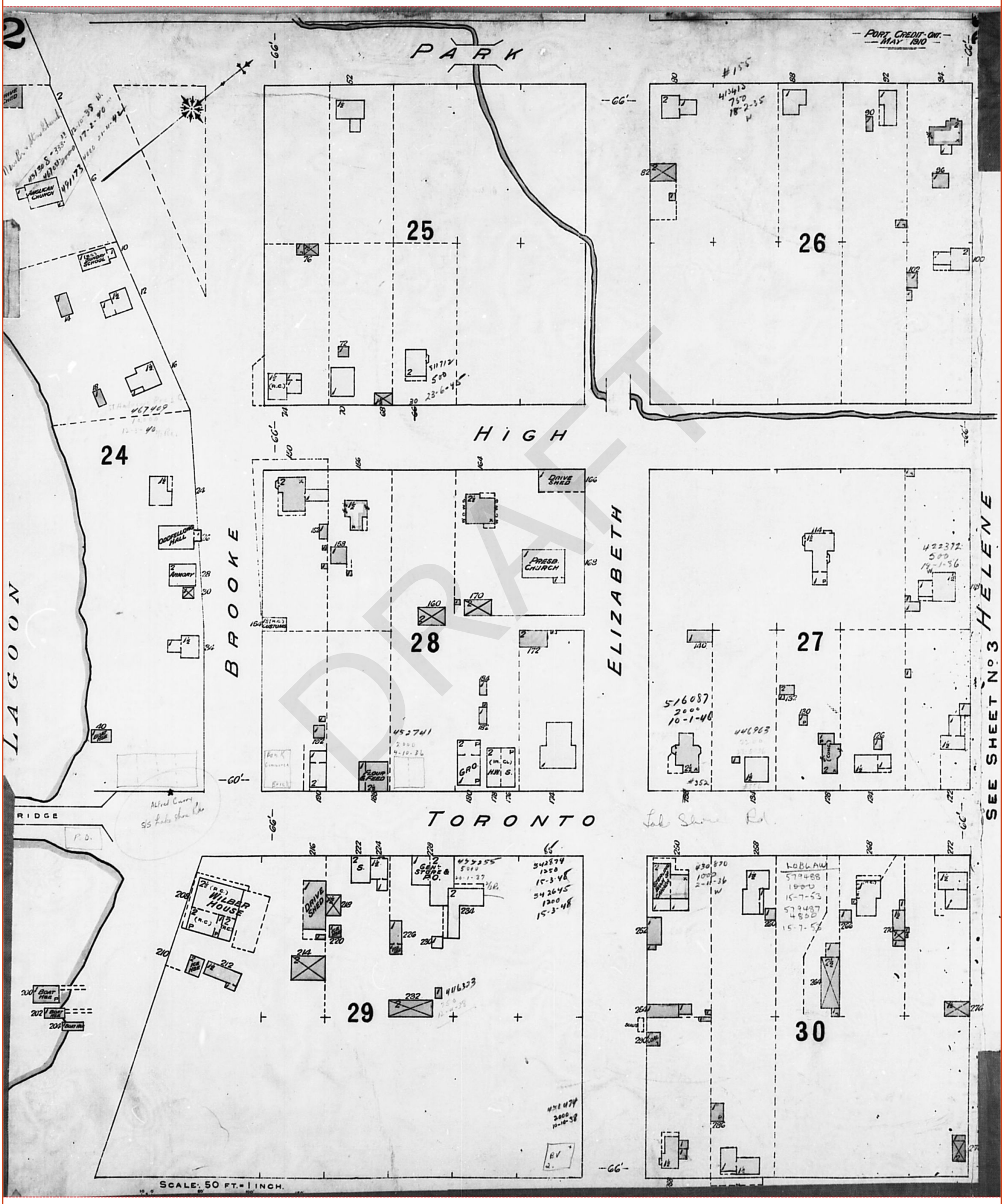
FIP Locator Map
The detailed FIP is on the following page

DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1910 Volume: Port Credit Firemap: 2
Port Credit Plan: 1564 (1910)
Sheet: 2 (1910)



DRAFT

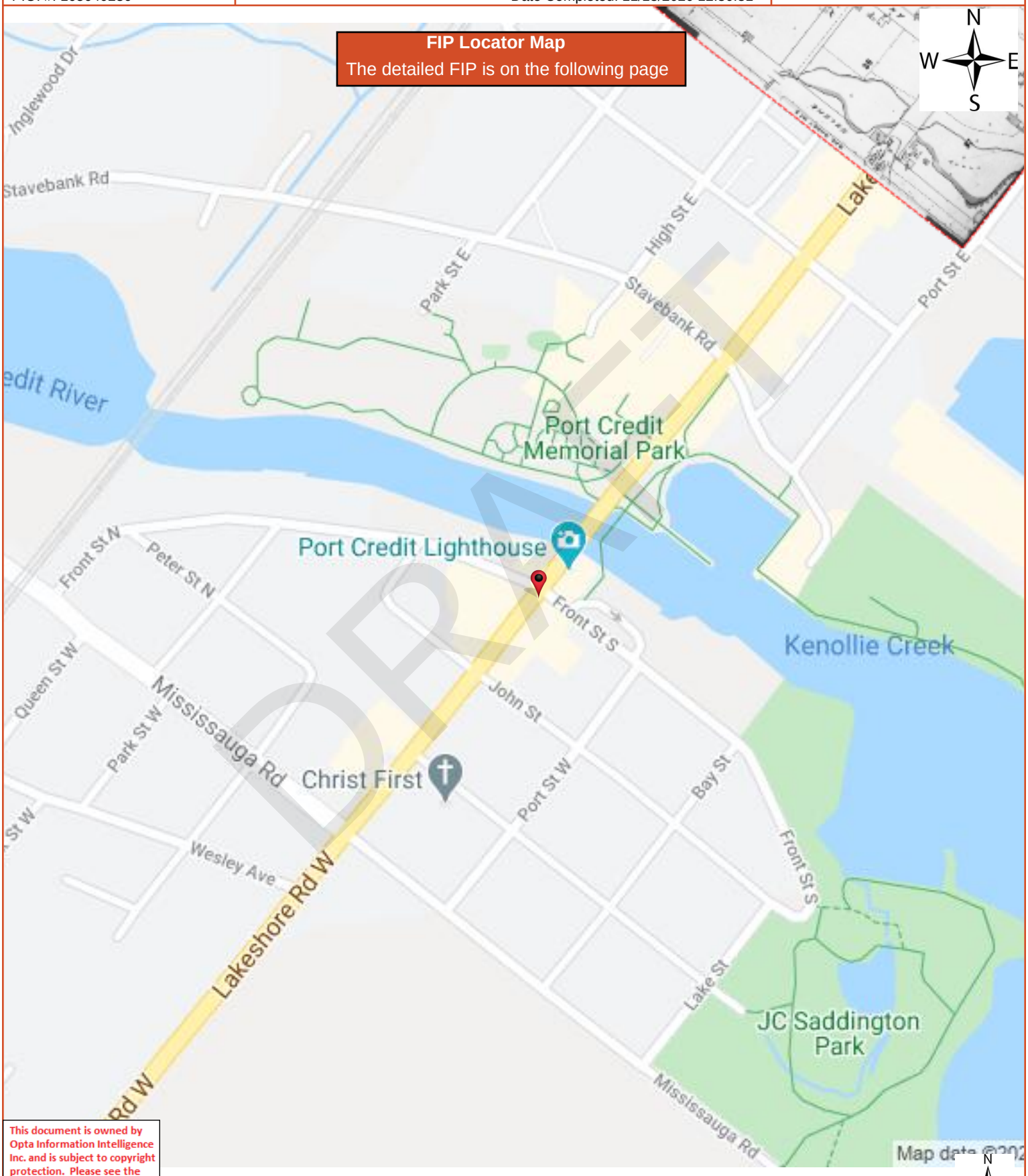
ENVIROSCAN Report

1910 Volume: Port Credit Firemap: 3
Port Credit Plan: 1564 (1910)
Sheet: 3 (1910)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

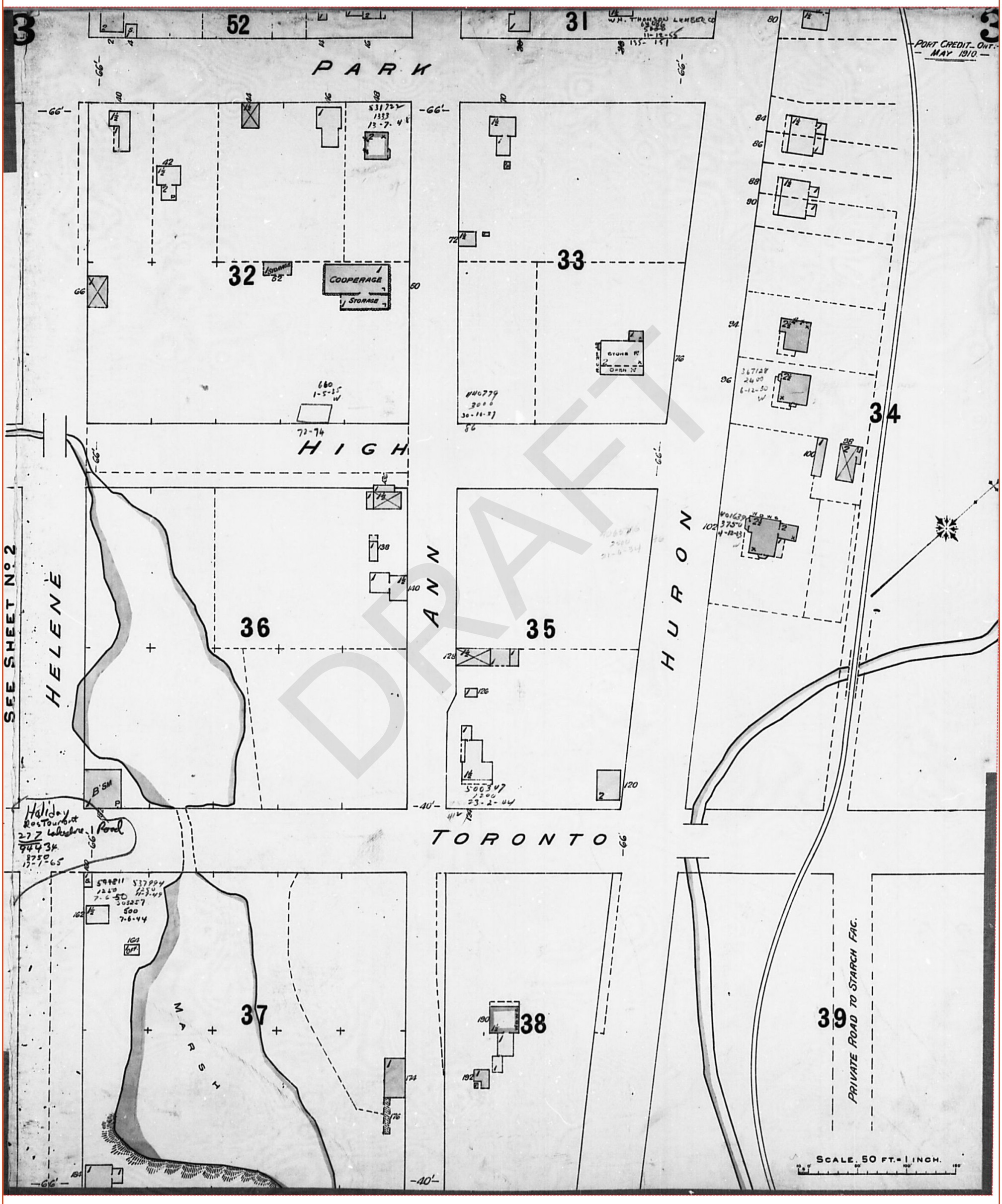


DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1910 Volume: Port Credit Firemap: 3
Port Credit Plan: 1564 (1910)
Sheet: 3 (1910)



DRAFT

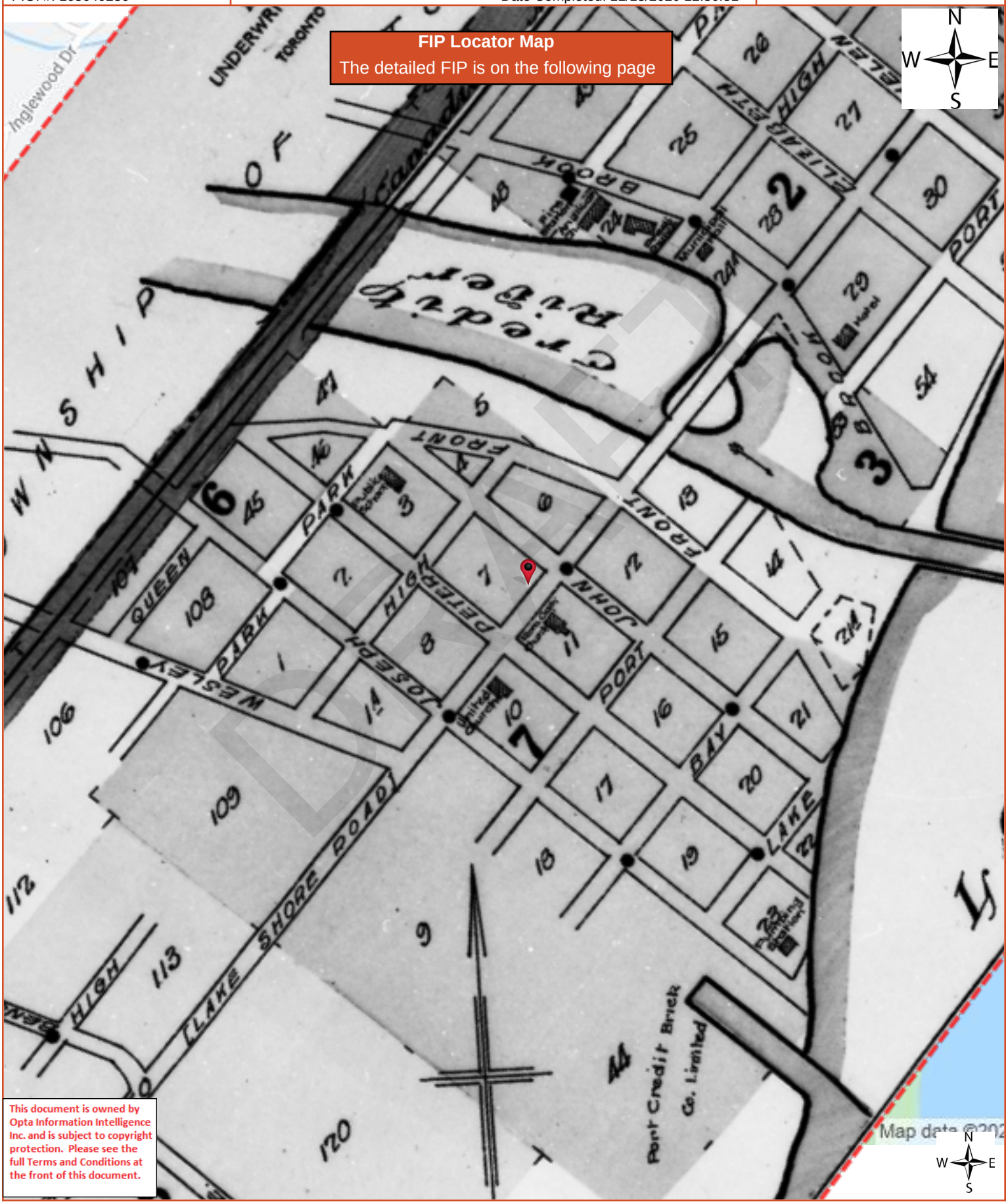
ENVIROSCAN Report

1928 Volume: Ontario Miscellaneous Firemap: 1
Port Credit Plan: 1565 (1928)
Sheet: 1 (1928)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

opta
INFORMATION INTELLIGENCE
OPTA INFORMATION INTELLIGENCE

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

ENVIROSCAN Report

1928 Volume: Ontario Miscellaneous Firemap: 1
Port Credit Plan: 1565 (1928)
Sheet: 1 (1928)

Project #: 20310900227
P.O. #: 165640286

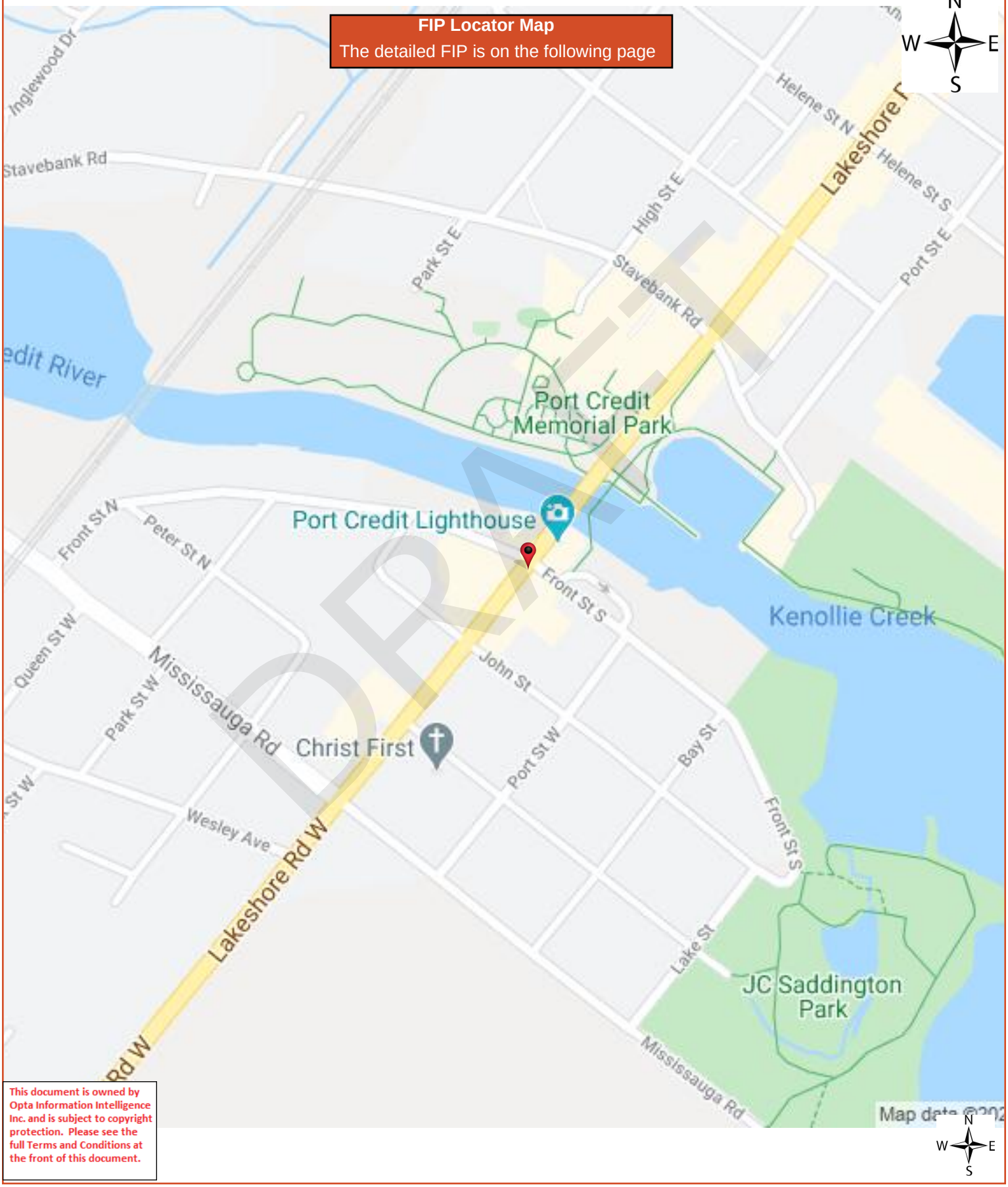
ENVIROSCAN Report

1928 Volume: Ontario Miscellaneous Firemap: 1
Port Credit Plan: 1565 (1928)
Sheet: 1 (1928)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

opta
INFORMATION INTELLIGENCE
OPTA INFORMATION INTELLIGENCE

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

ENVIROSCAN Report

Page: 16
Project Name: Lakeshore Trunk

Project #: 20310900227
P.O. #: 165640286

1928 Volume: Ontario Miscellaneous Firemap: 1
Port Credit Plan: 1565 (1928)
Sheet: 1 (1928)

DRAFT

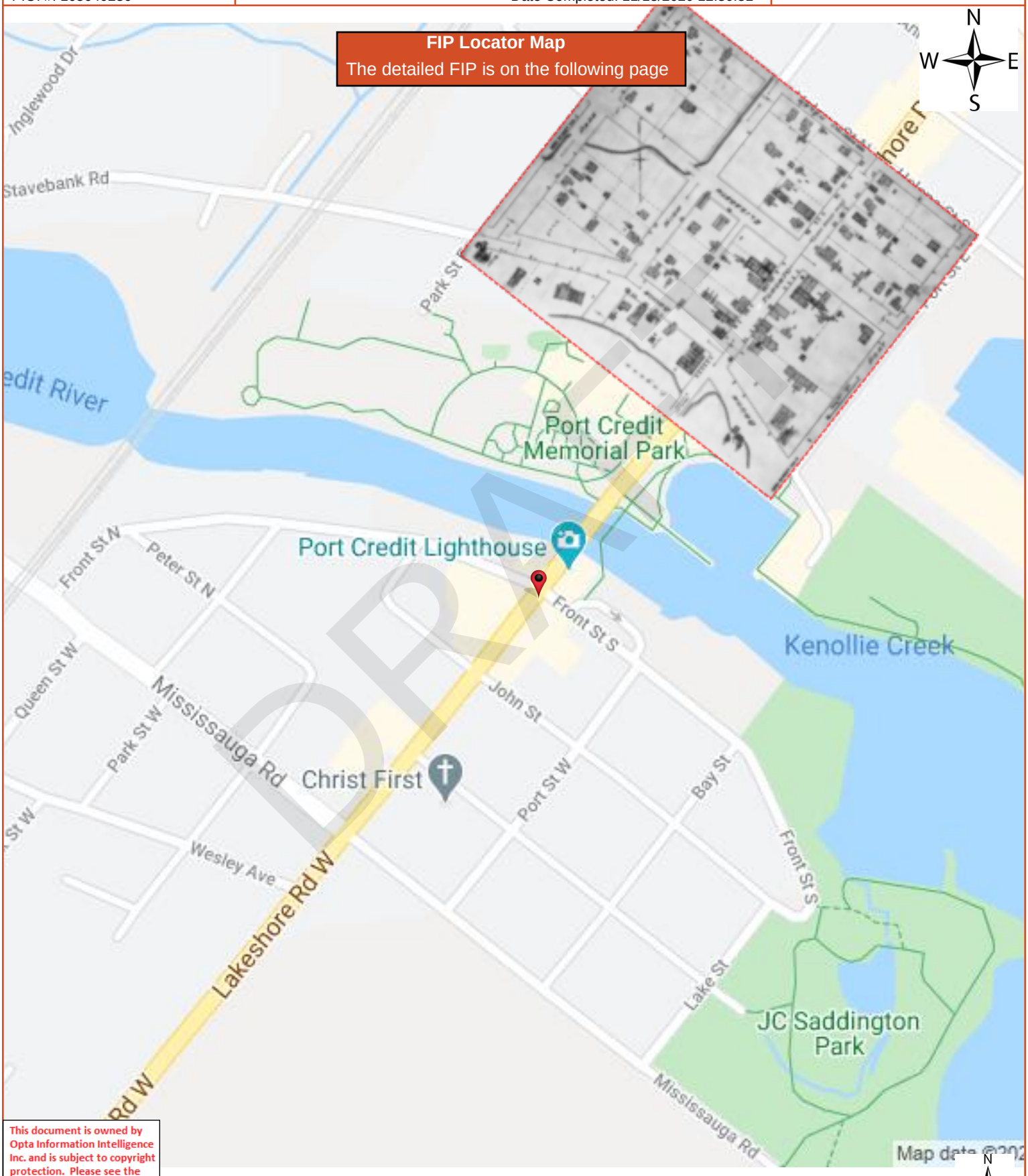
ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 2
Port Credit Plan: 1565 (1928)
Sheet: 2 (1928)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

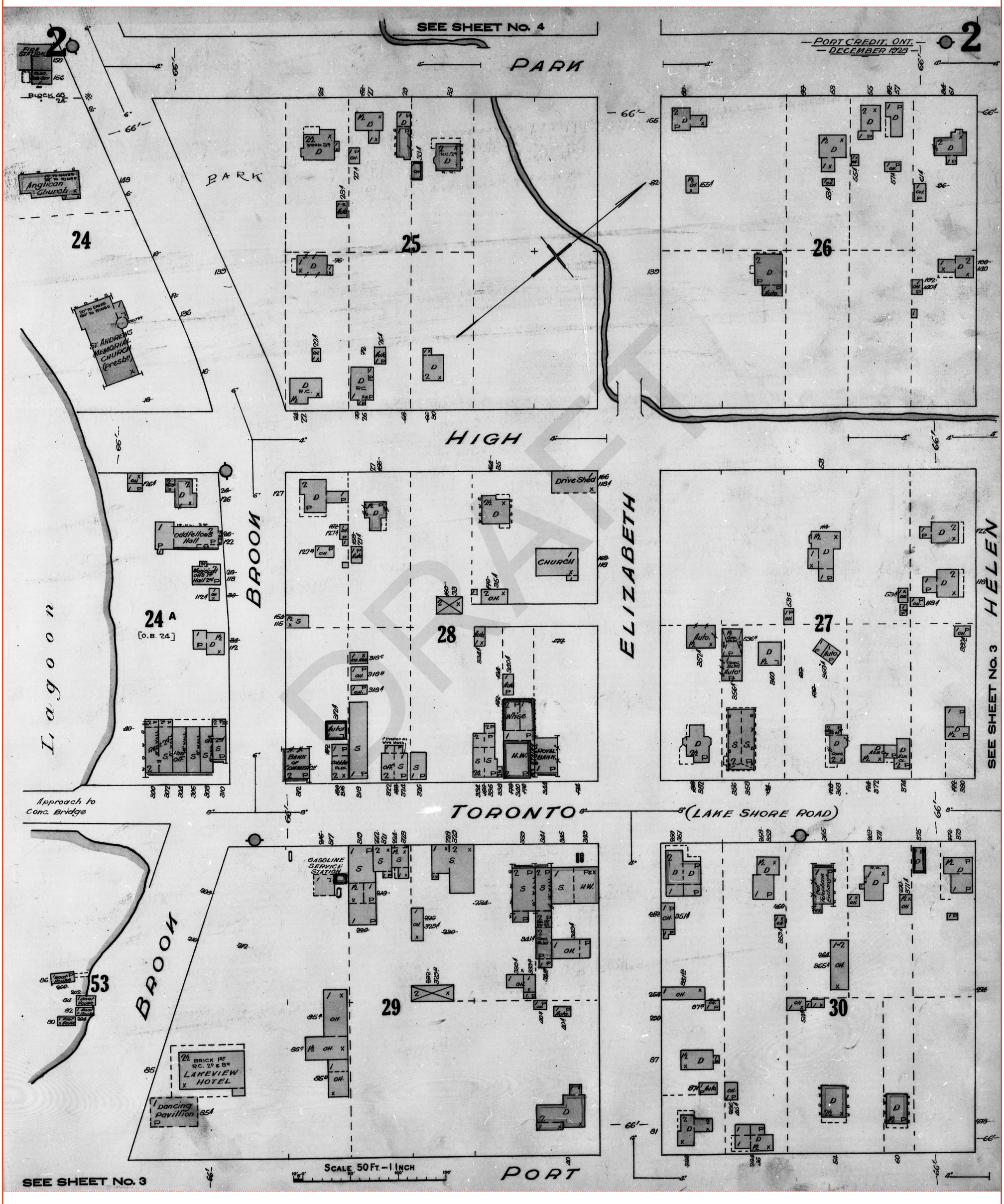


DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 2
Port Credit Plan: 1565 (1928)
Sheet: 2 (1928)



DRAFT

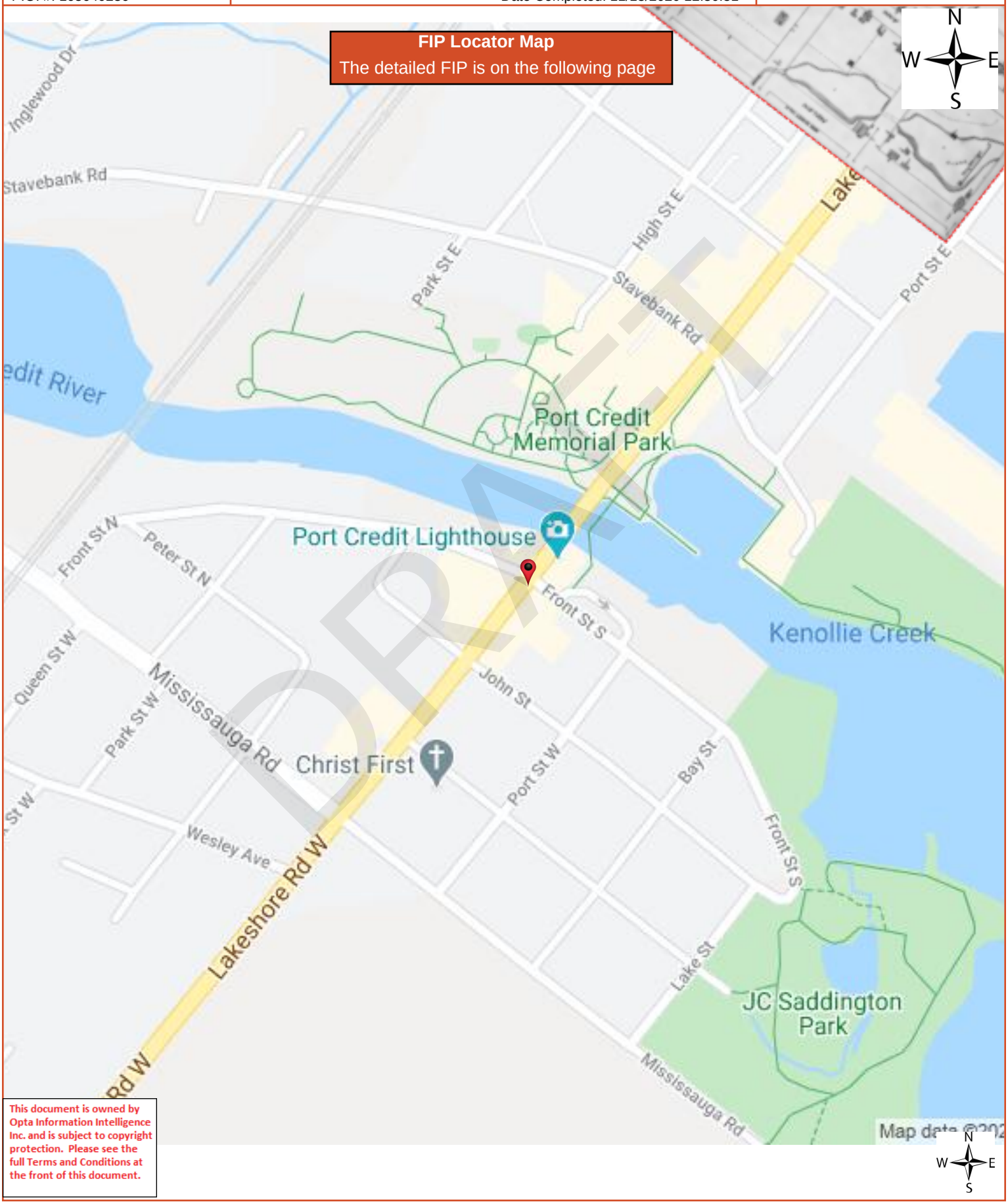
ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 3
Port Credit Plan: 1565 (1928)
Sheet: 3 (1928)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

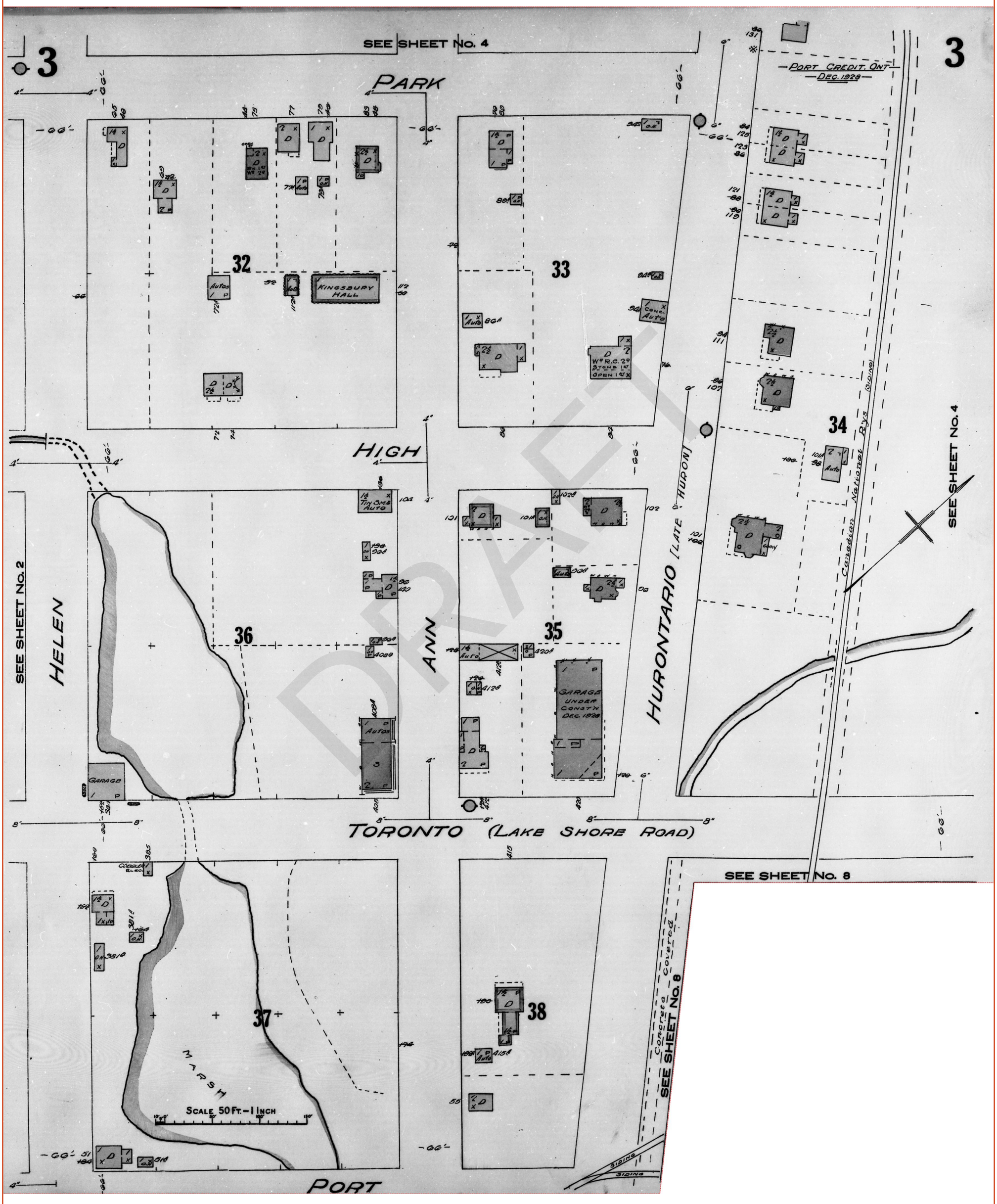


DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 3
Port Credit Plan: 1565 (1928)
Sheet: 3 (1928)



DRAFT

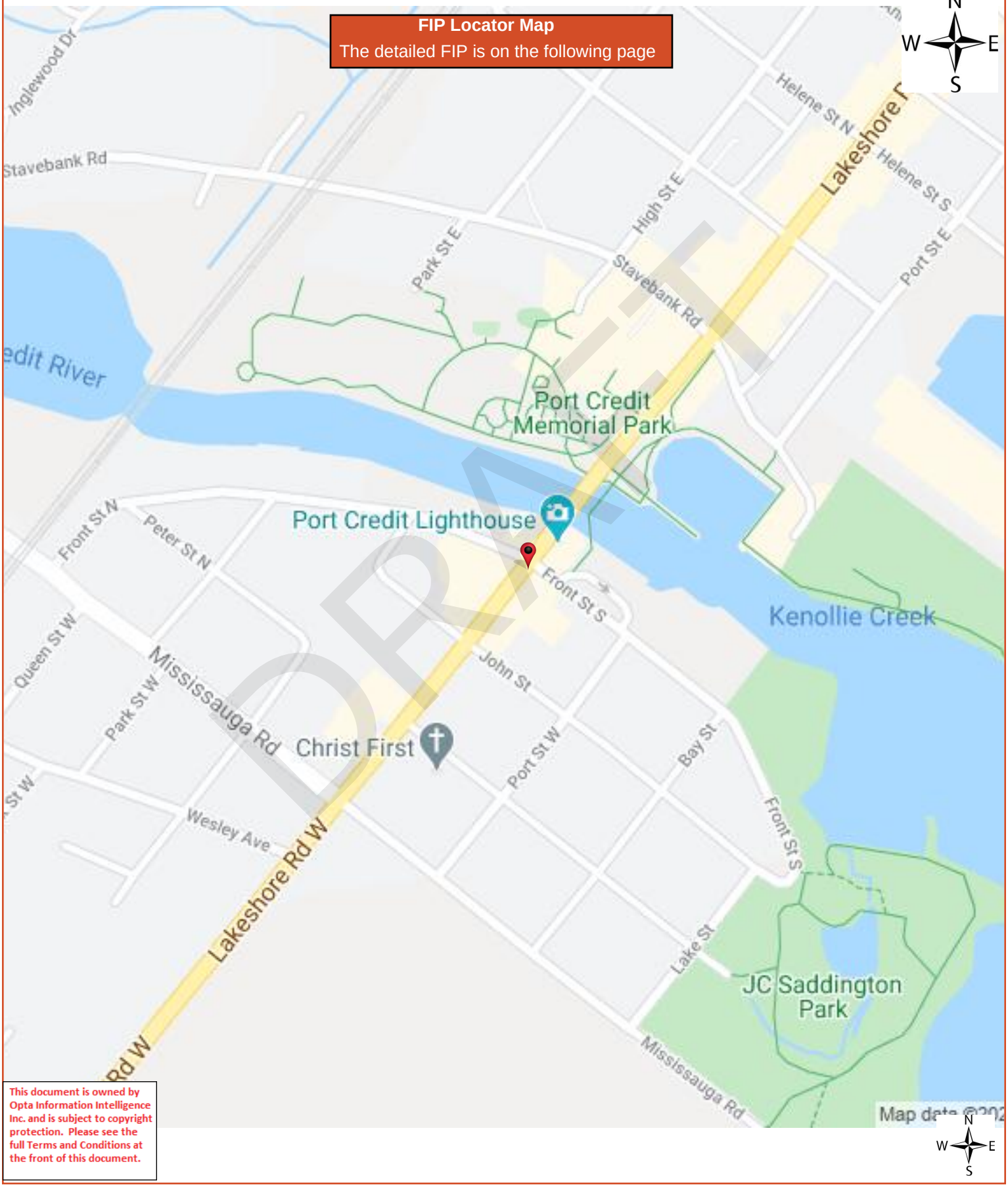
ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 4
Port Credit Plan: 1565 (1928)
Sheet: 4 (1928)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



DRAFT

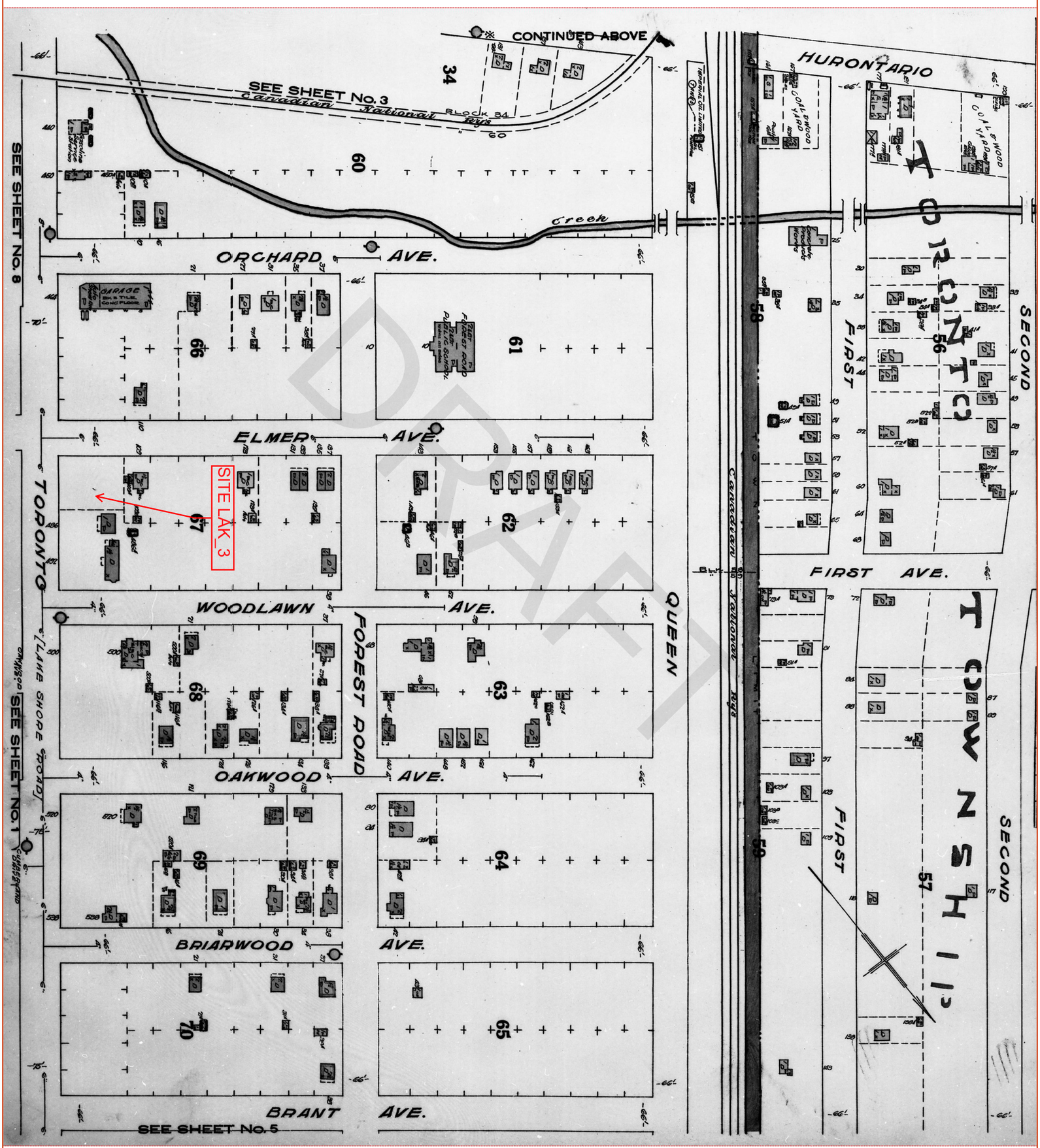
This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 4
Port Credit Plan: 1565 (1928)
Sheet: 4 (1928)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

OPTA INFORMATION INTELLIGENCE



DRAFT

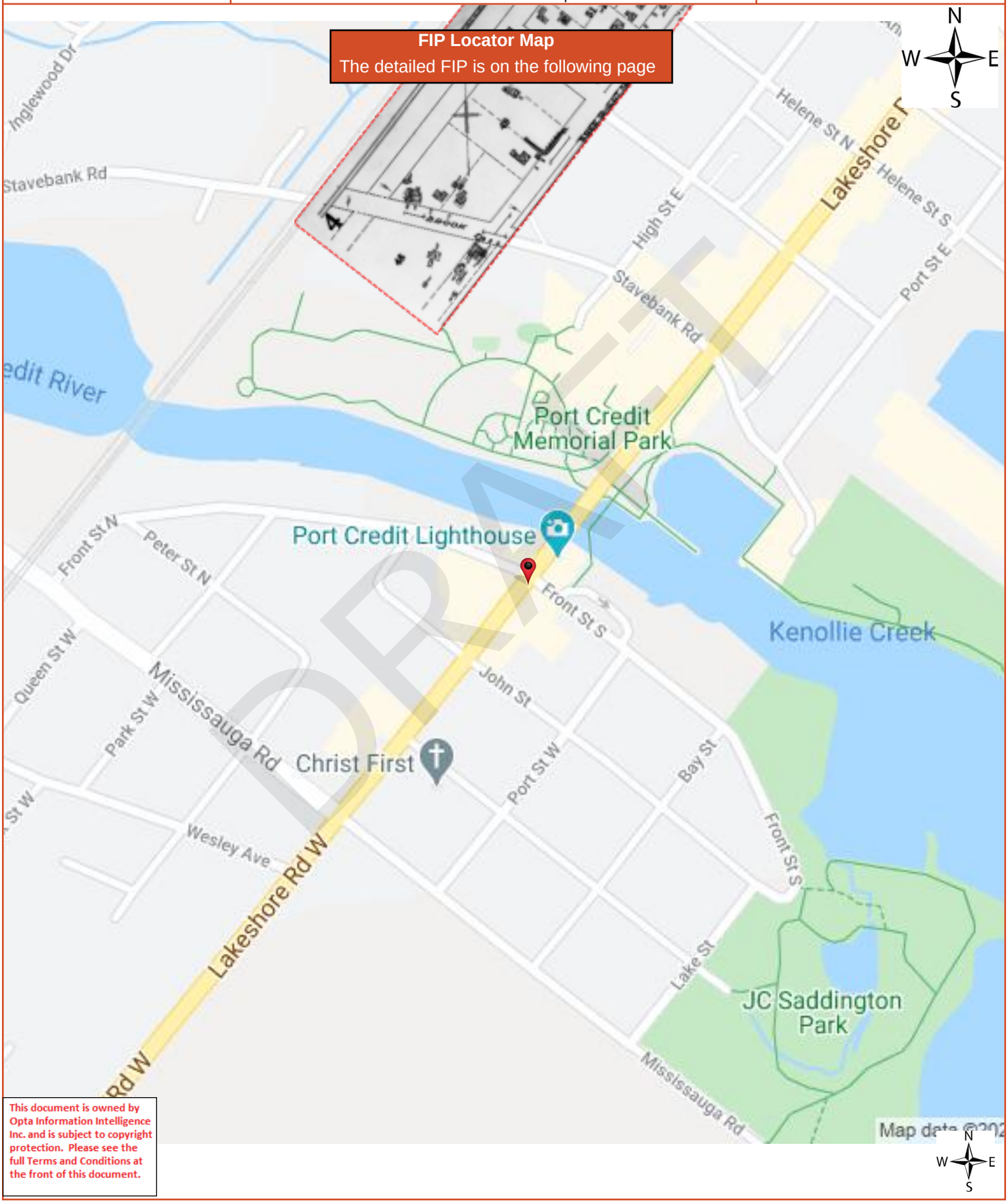
ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 4
Port Credit Plan: 1565 (1928)
Sheet: 4 (1928)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

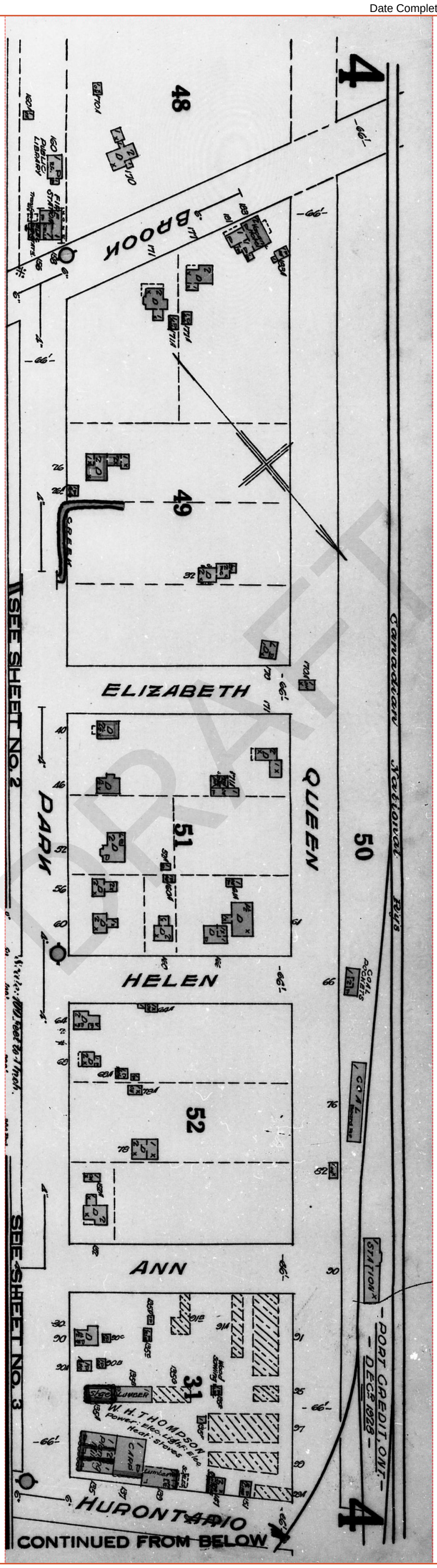
FIP Locator Map
The detailed FIP is on the following page



This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 4
Port Credit Plan: 1565 (1928)
Sheet: 4 (1928)



DRAFT

ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 7
Port Credit Plan: 1565 (1928)
Sheet: 7 (1928)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 7
Port Credit Plan: 1565 (1928)
Sheet: 7 (1928)

DRAFT

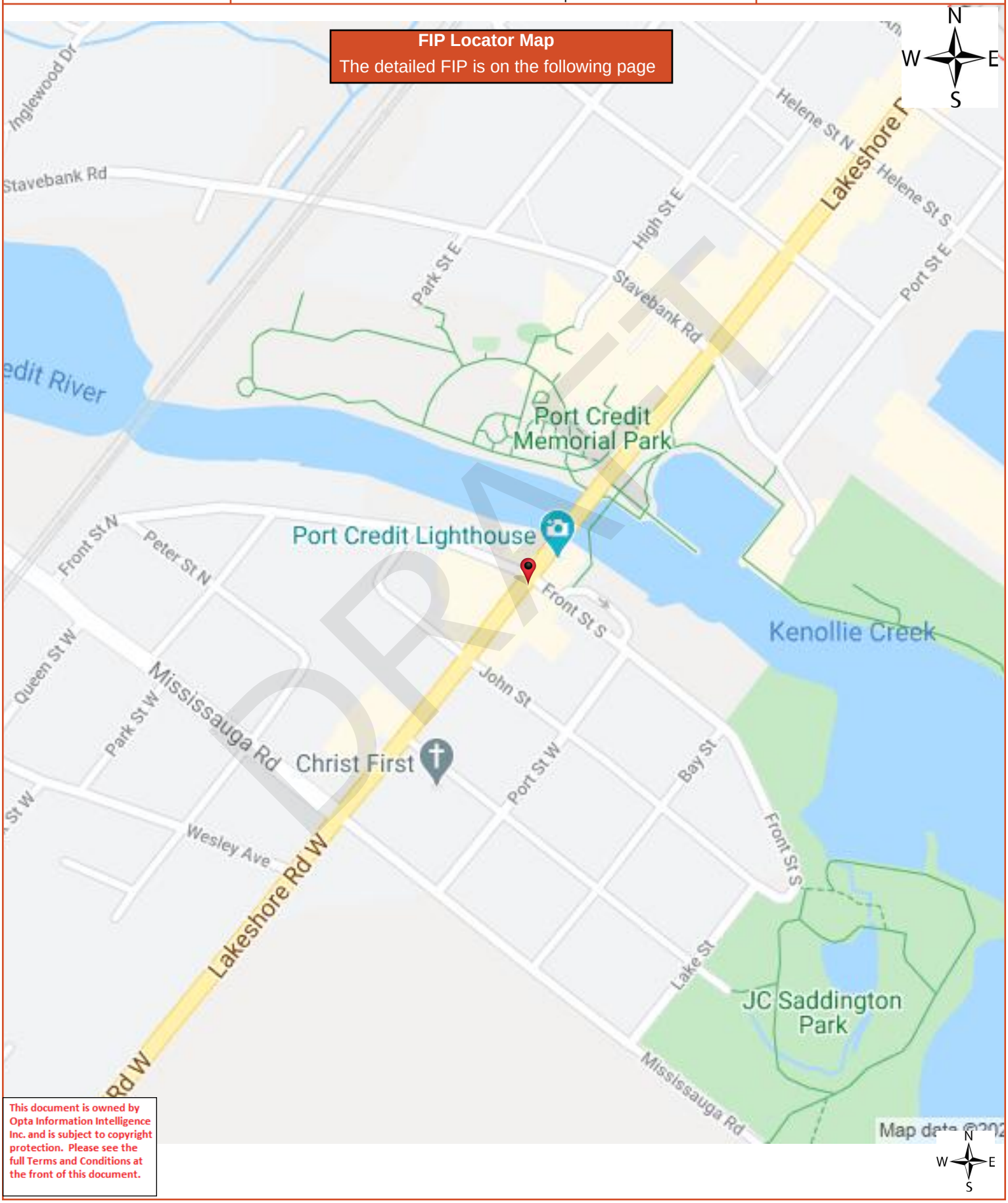
ENVIROSCAN Report

1928 Volume: Port Credit Firemap: 8
Port Credit Plan: 1565 (1928)
Sheet: 8 (1928)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

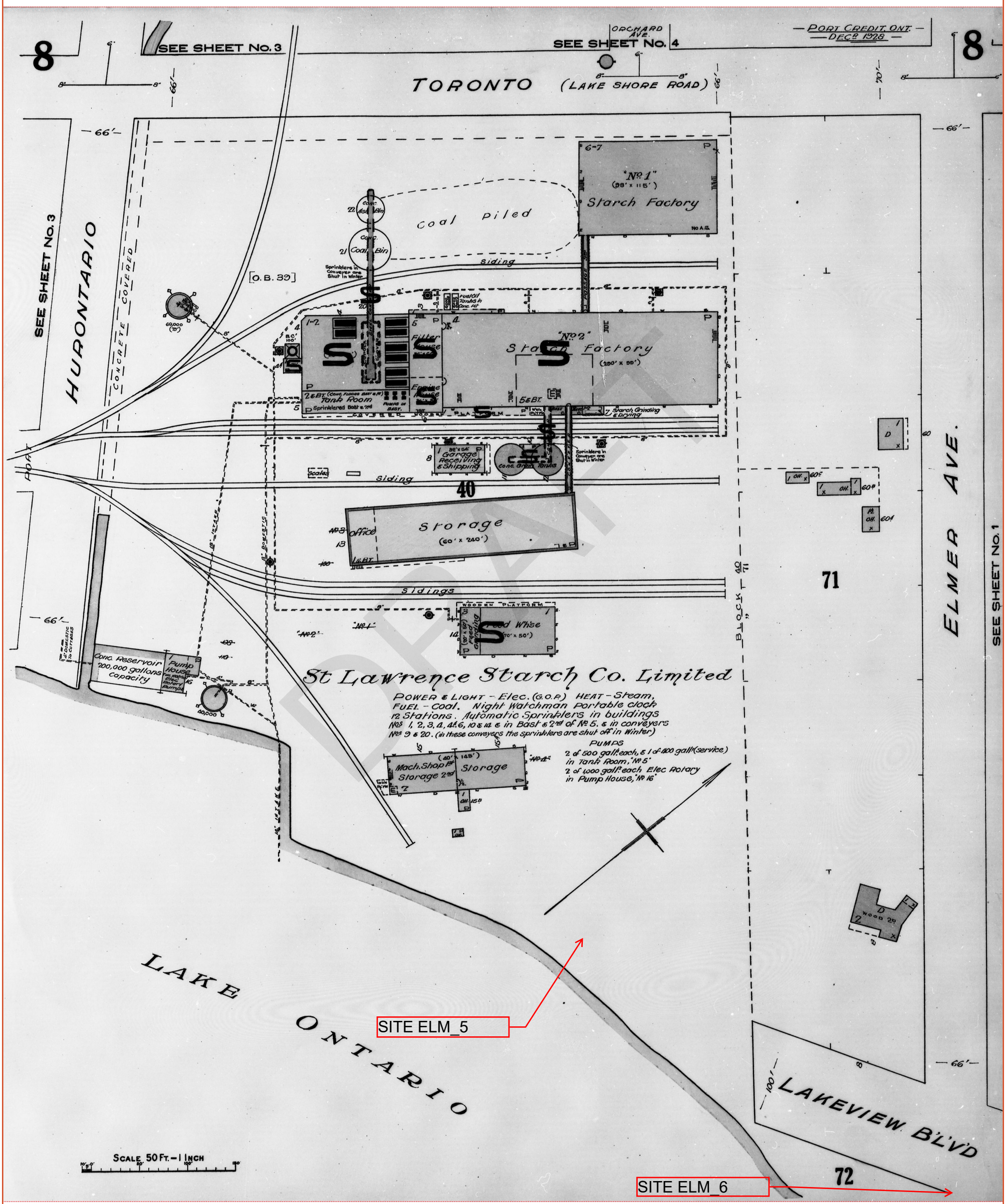
FIP Locator Map
The detailed FIP is on the following page



DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

1928 Volume: Port Credit Firemap: 8
Port Credit Plan: 1565 (1928)
Sheet: 8 (1928)



DRAFT

Project Name: Lakeshore Trunk

Project #: 20310900227
P.O. #: 165640286

ENVIROSCAN Report

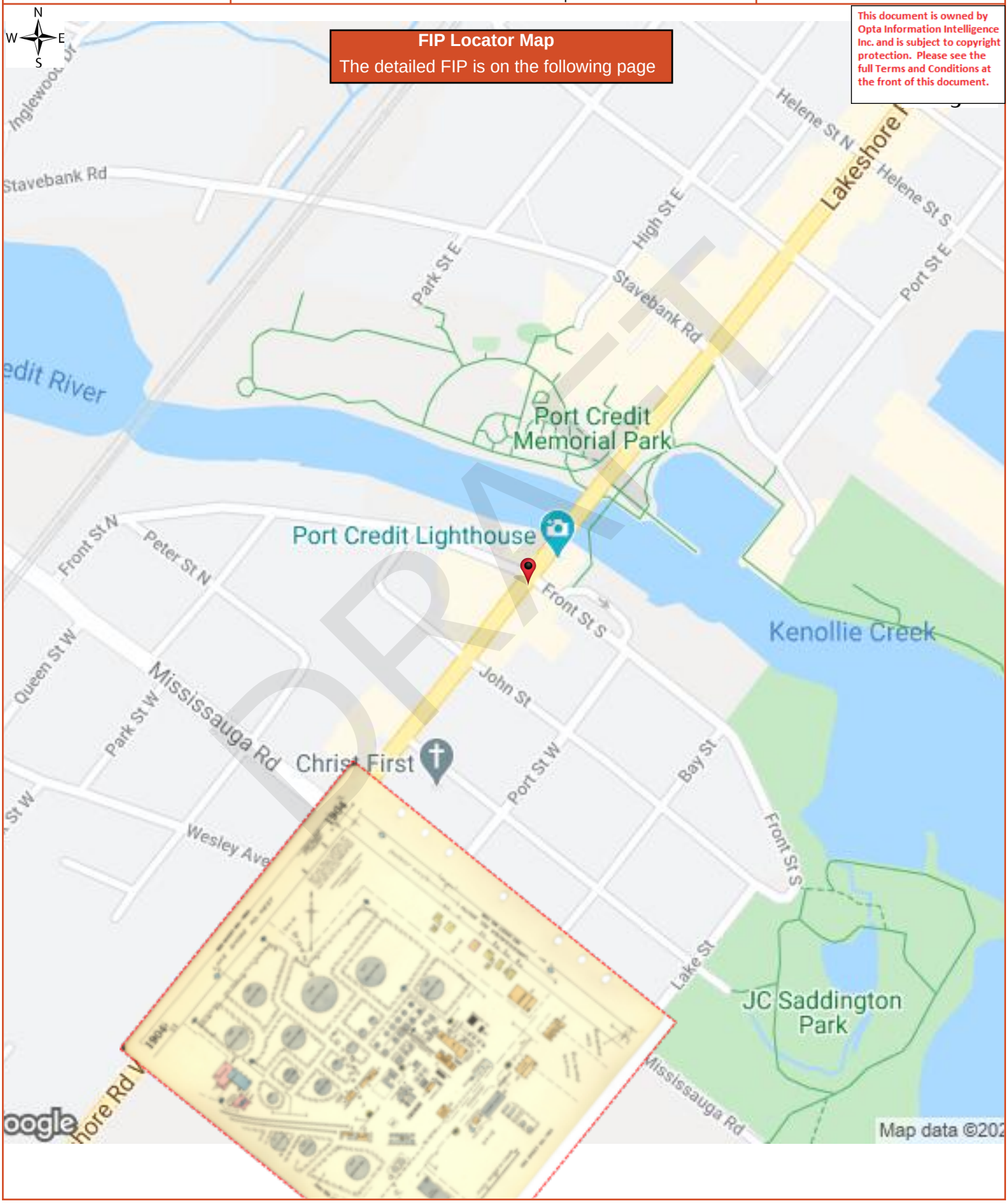
1952 Volume: Toronto 19 Firemap: 1904
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1904 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

FIP Locator Map
The detailed FIP is on the following page



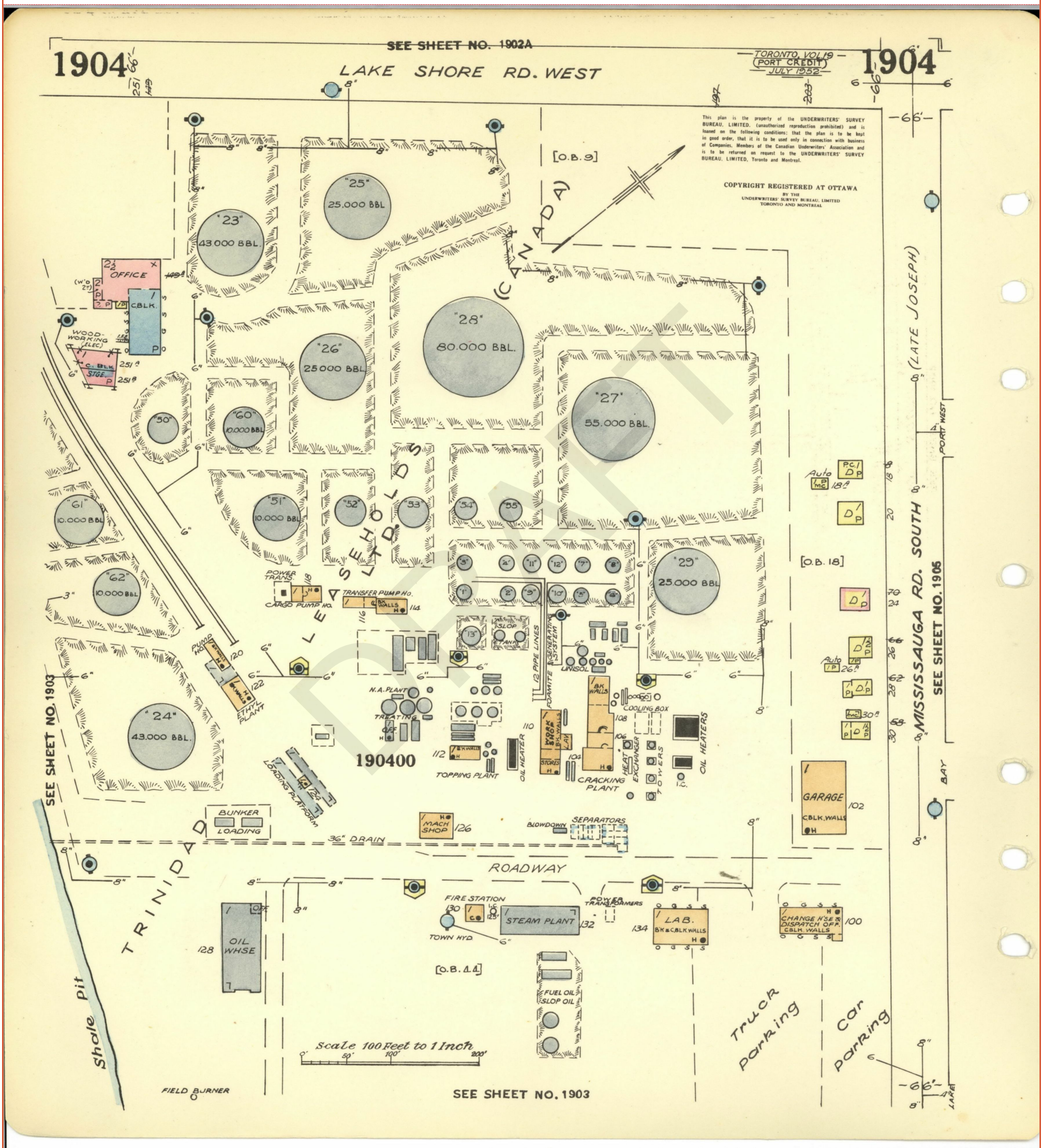
DRAFT

ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1904
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1904 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

opta
INFORMATION INTELLIGENCE
OPTA INFORMATION INTELLIGENCE



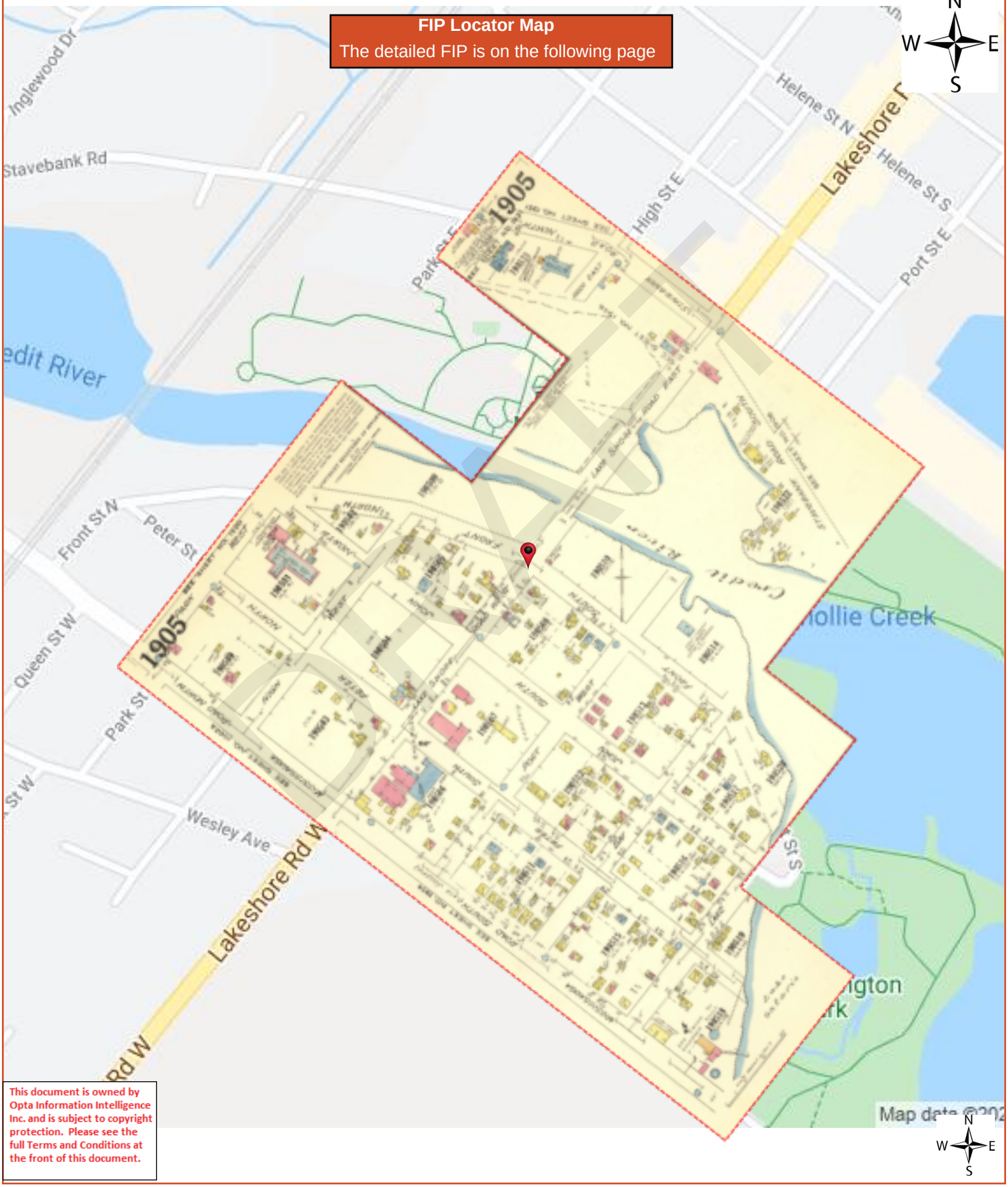
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1905
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1905 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



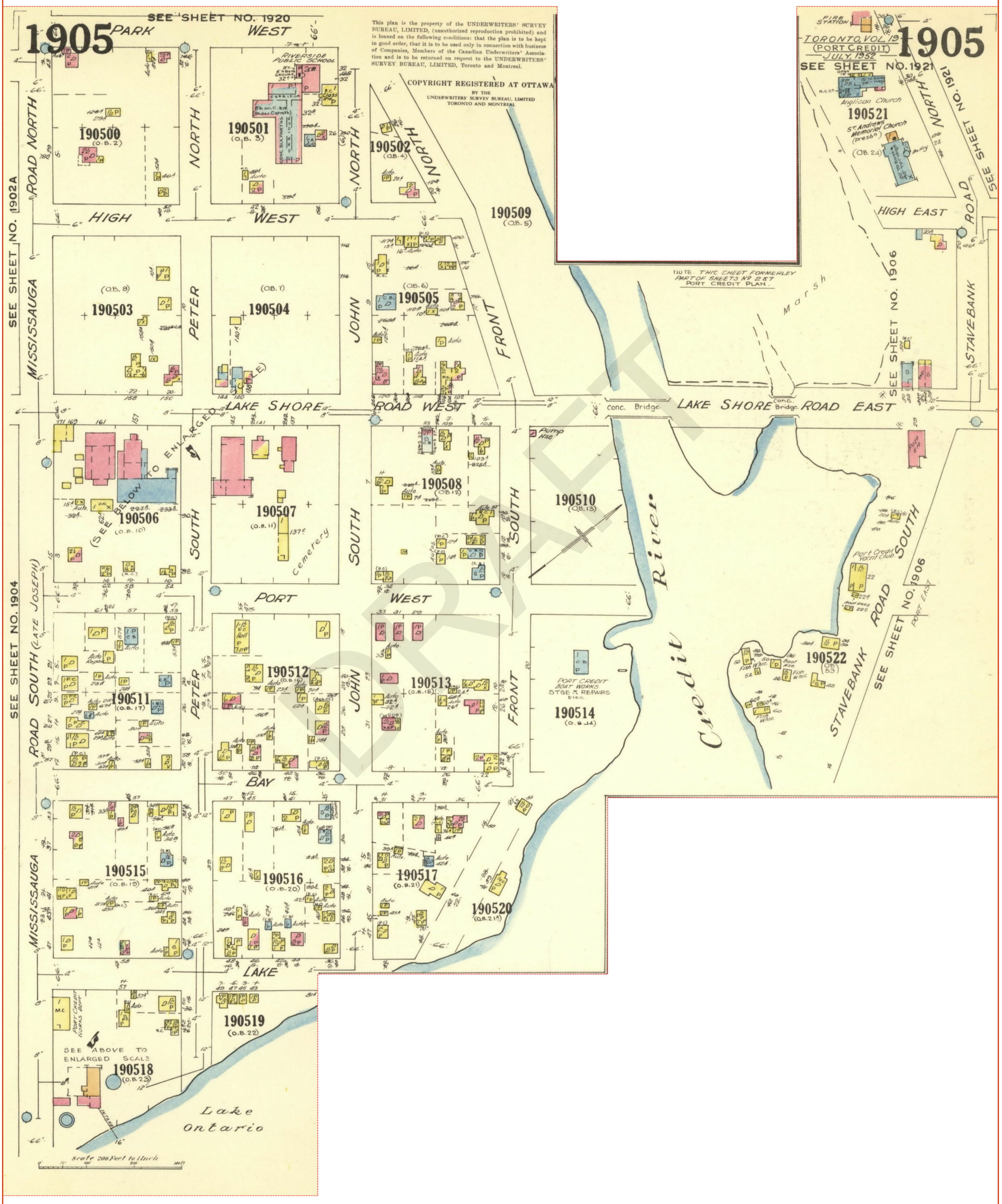
This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1905
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1905 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

opta
INFORMATION INTELLIGENCE
OPTA INFORMATION INTELLIGENCE



DRAFT

ENVIROSCAN Report

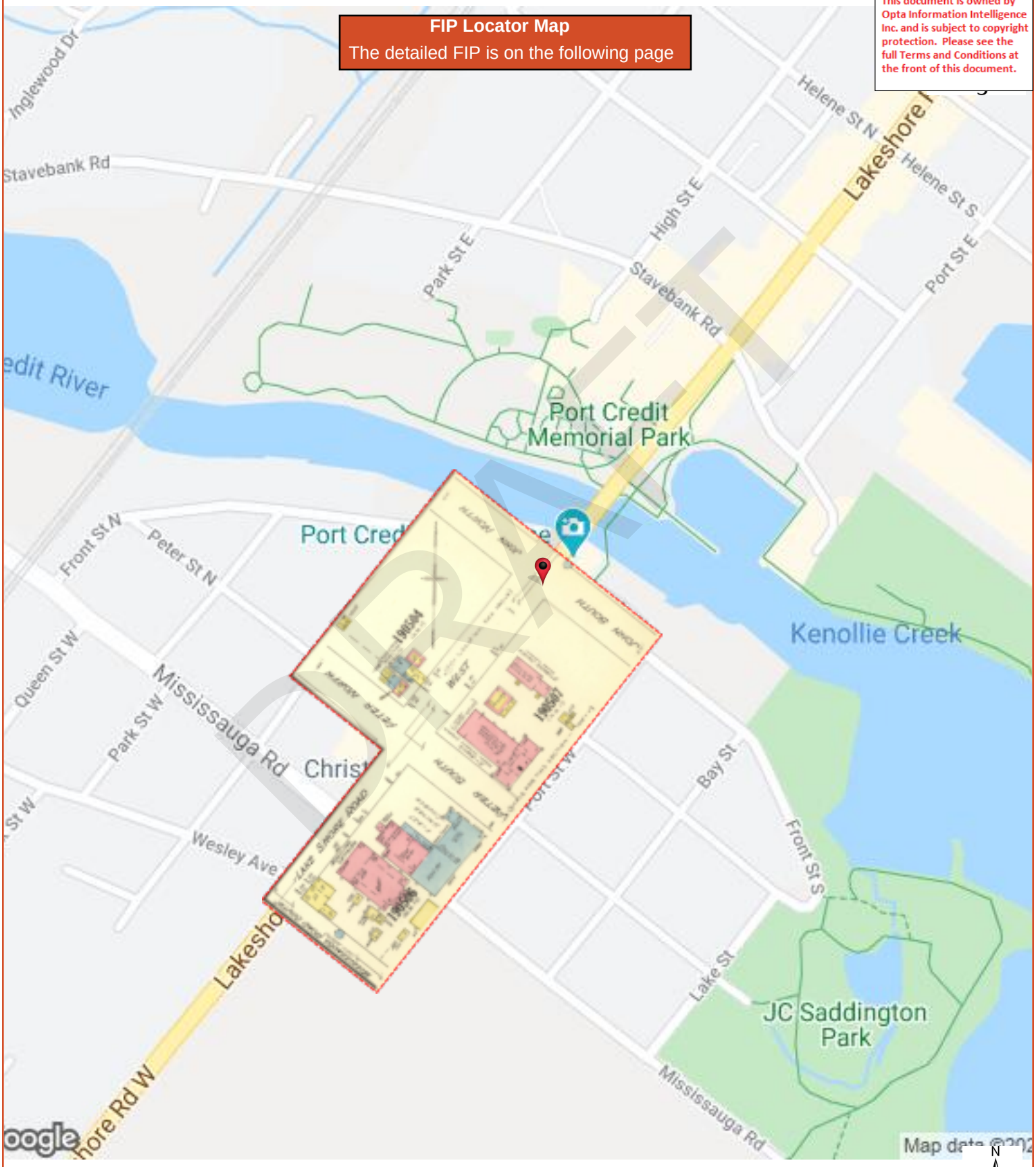
1952 Volume: Toronto 19 Firemap: 1905
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1905 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

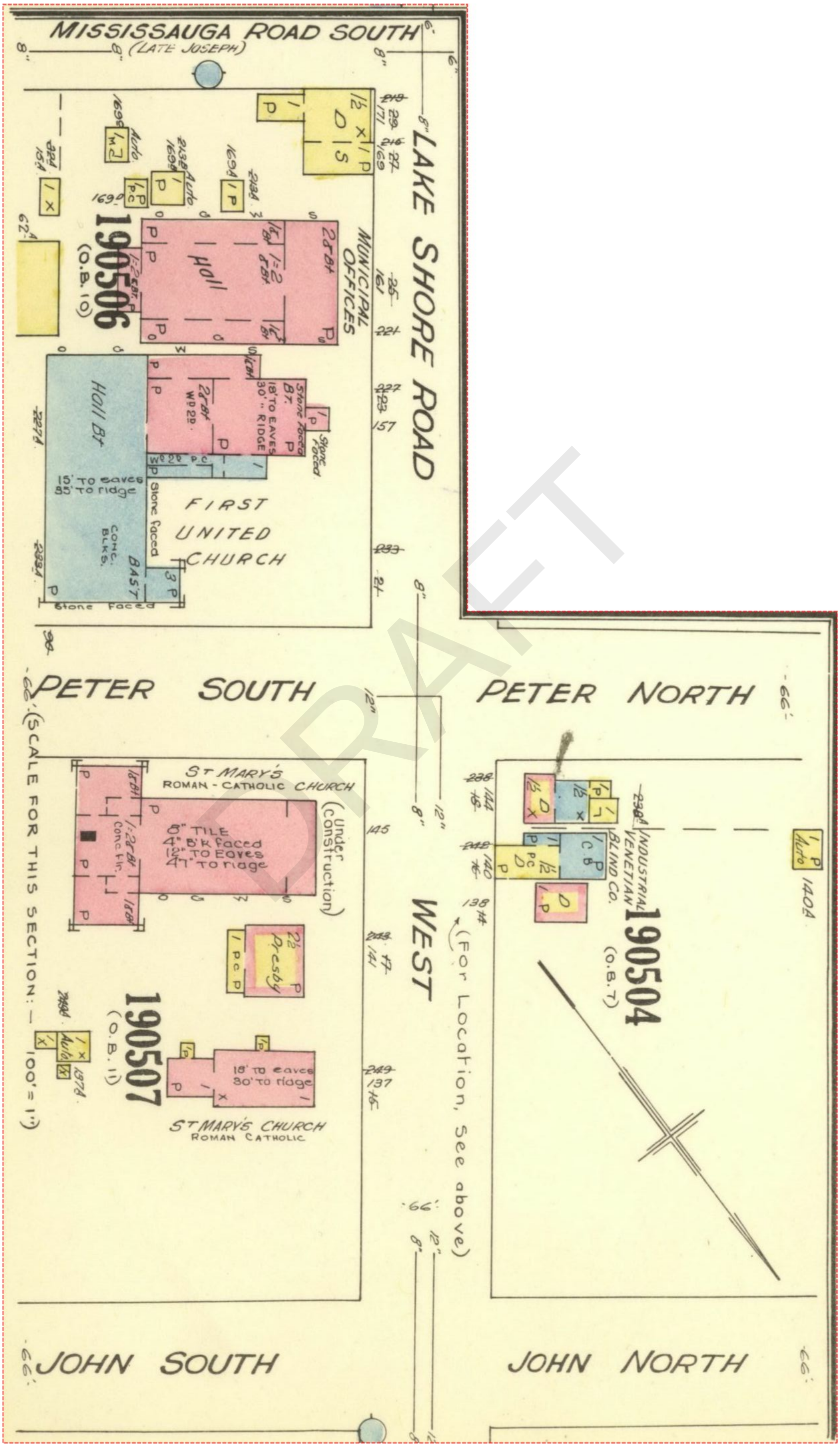
FIP Locator Map
The detailed FIP is on the following page



DRAFT

ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1905
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1905 (1952)



DRAFT

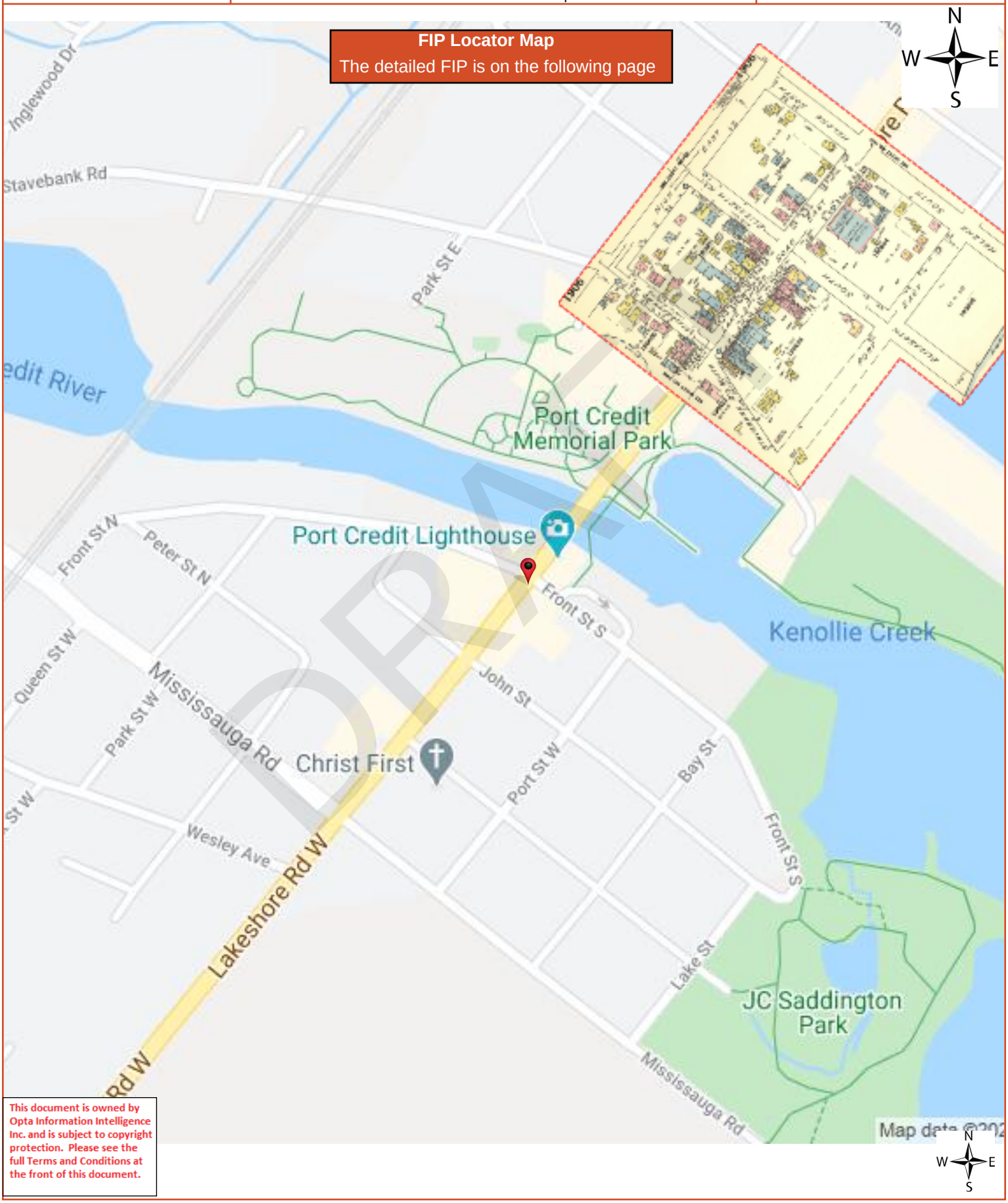
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1906
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1906 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

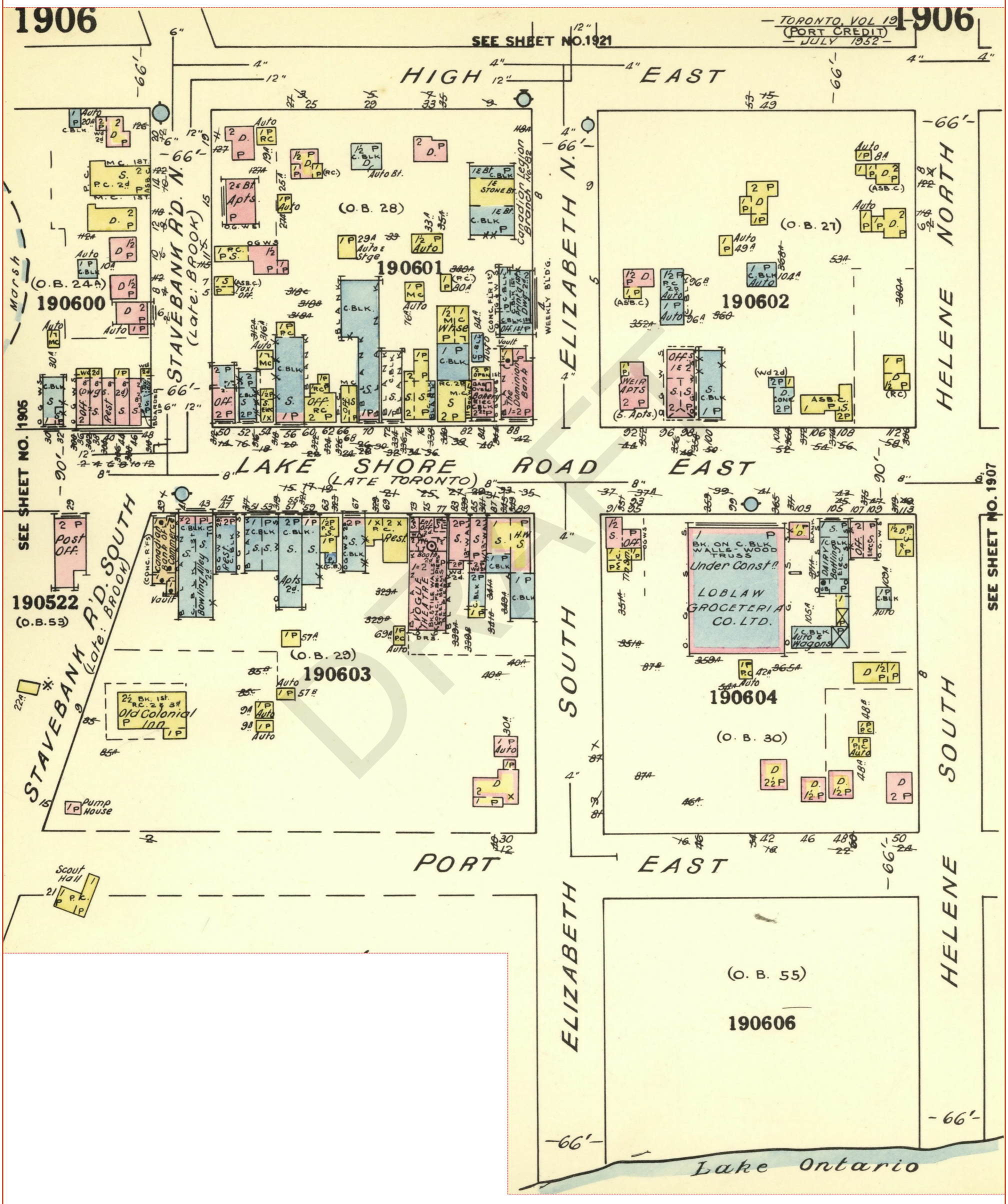


DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

1952 Volume: Toronto 19 Firemap: 1906
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1906 (1952)

opta
INFORMATION INTELLIGENCE
OPTA INFORMATION INTELLIGENCE



DRAFT

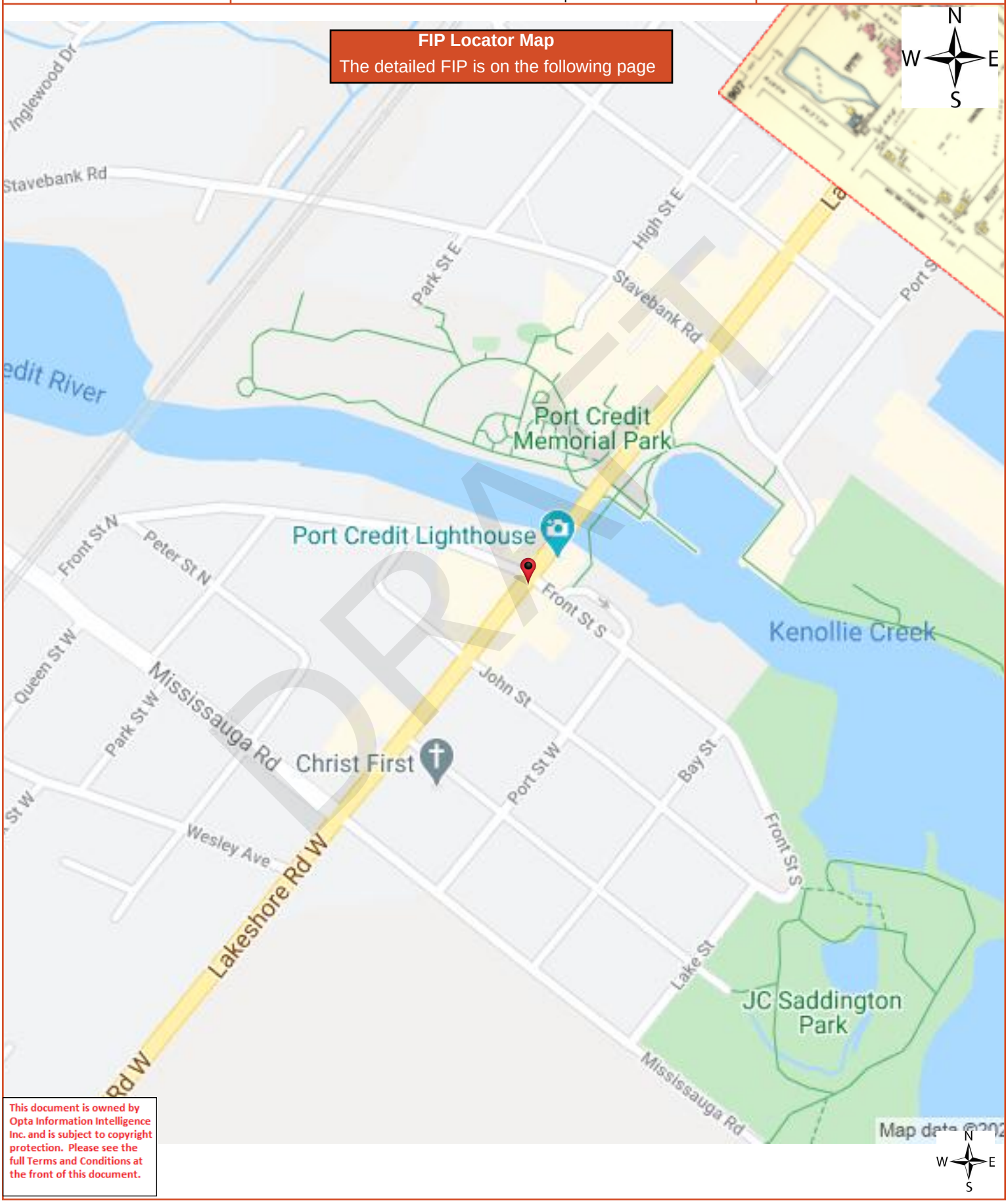
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1907
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1907 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

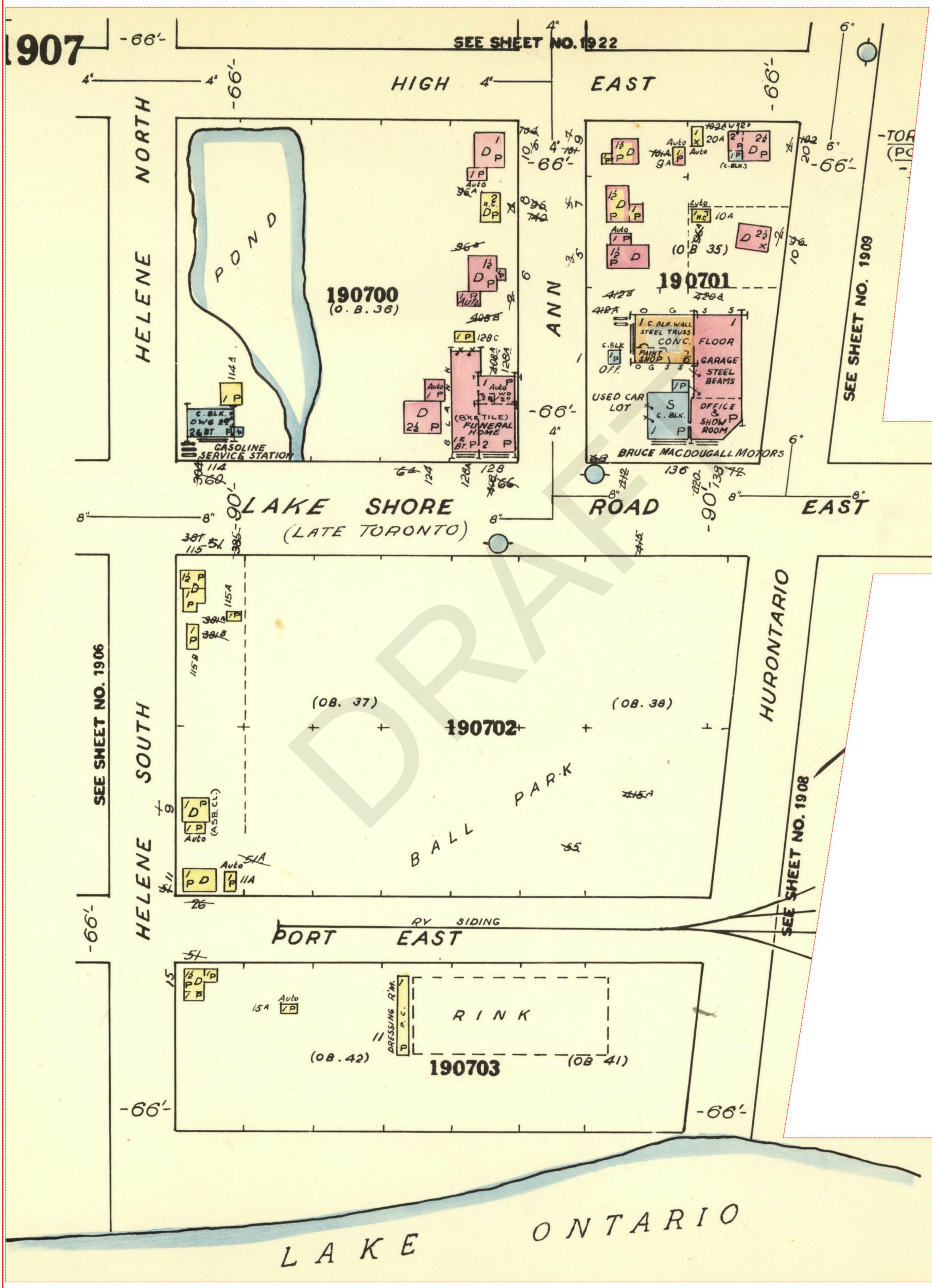
FIP Locator Map
The detailed FIP is on the following page



DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

1952 Volume: Toronto 19 Firemap: 1907
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1907 (1952)



DRAFT

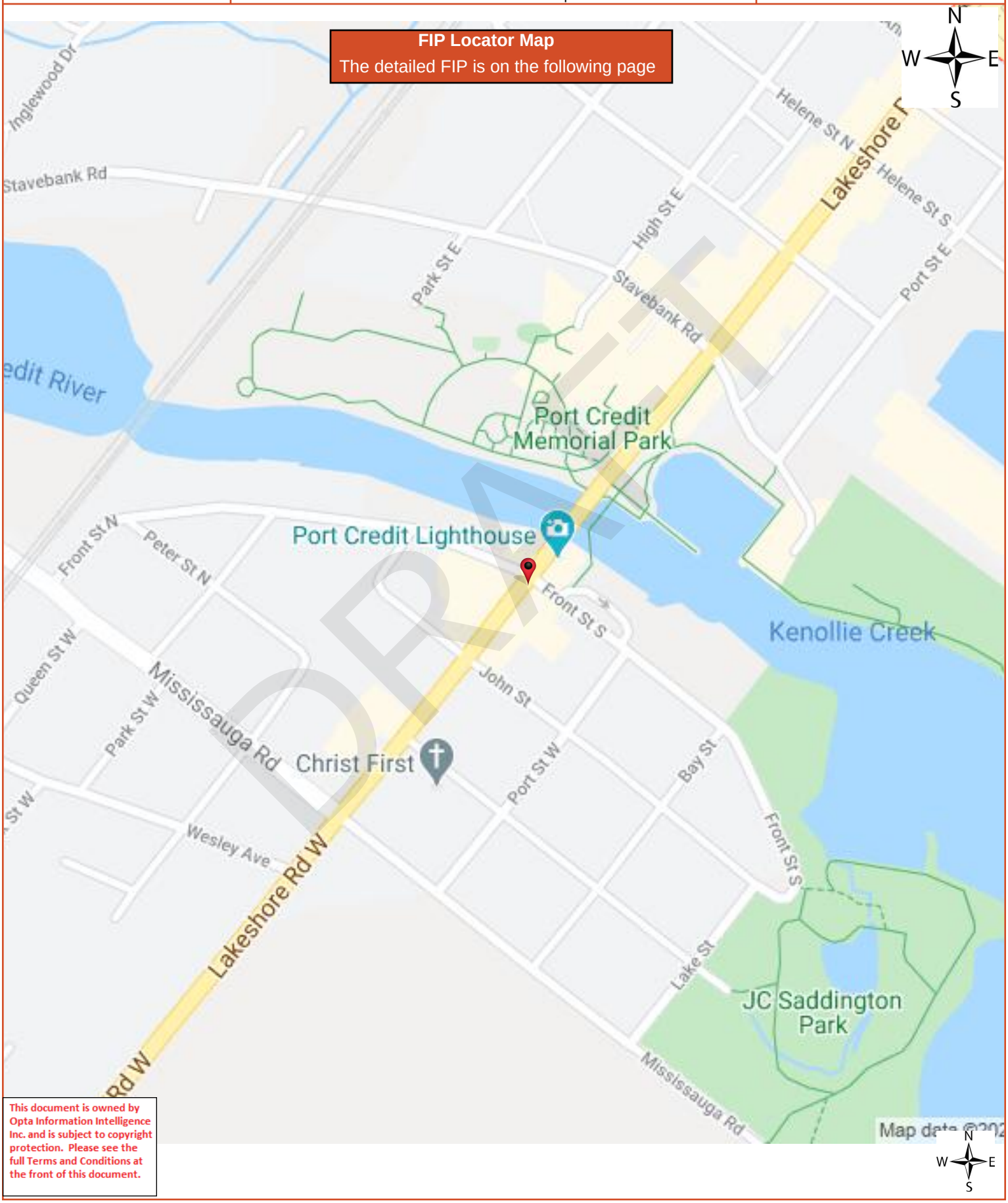
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1908
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1908 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

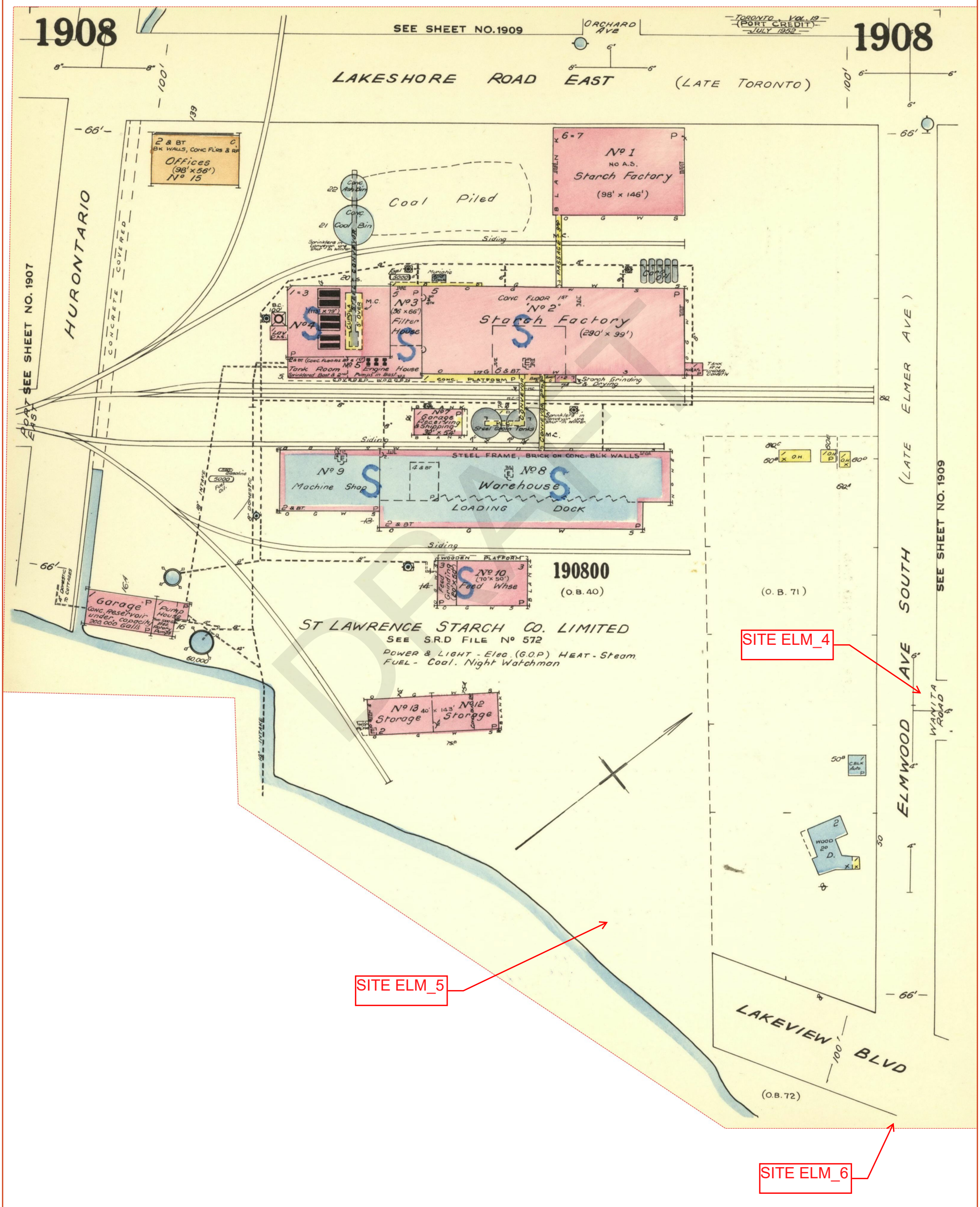


DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

1952 Volume: Toronto 19 Firemap: 1908
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1908 (1952)

opta
INFORMATION INTELLIGENCE
OPTA INFORMATION INTELLIGENCE



DRAFT

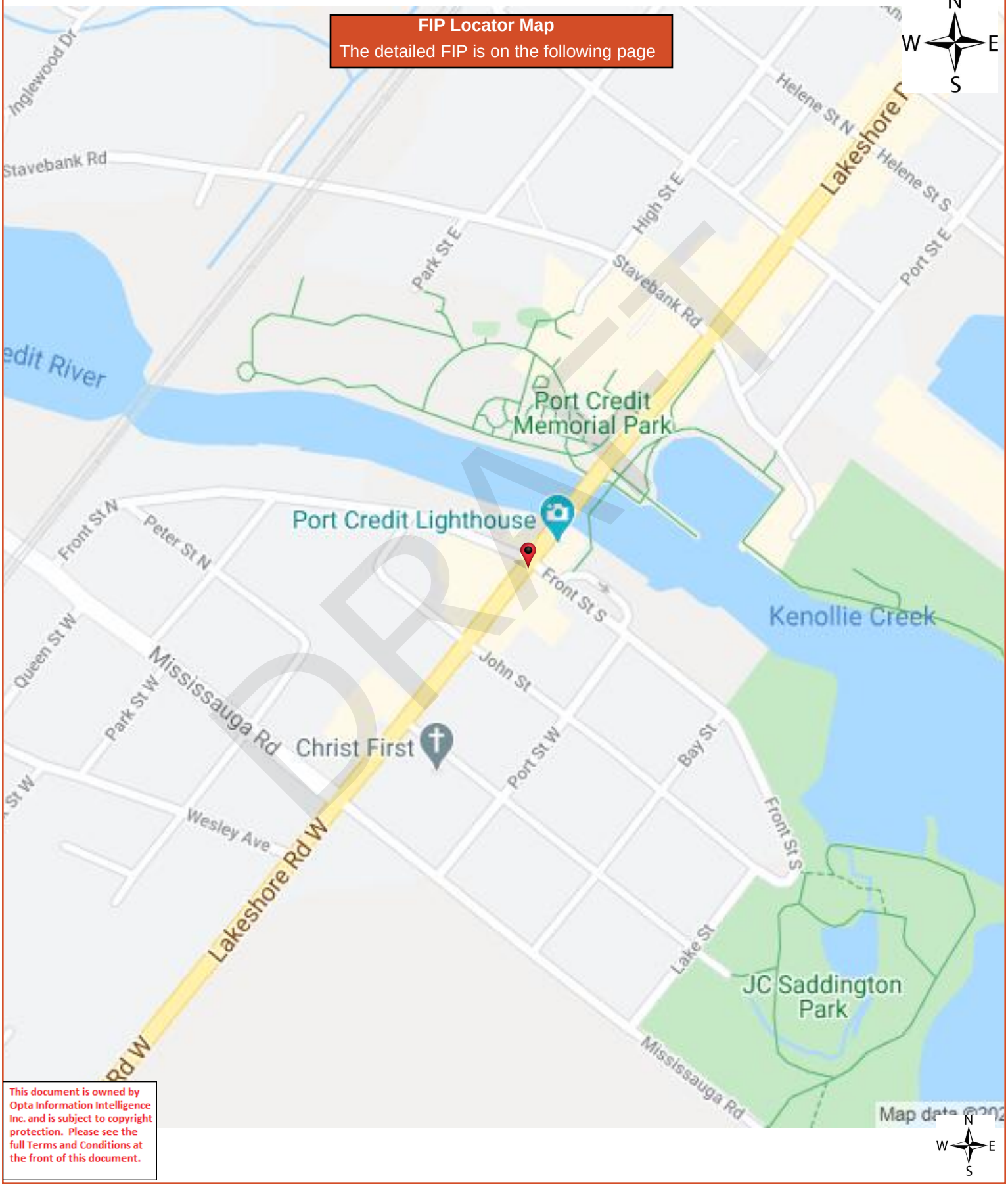
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1909
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1909 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



DRAFT

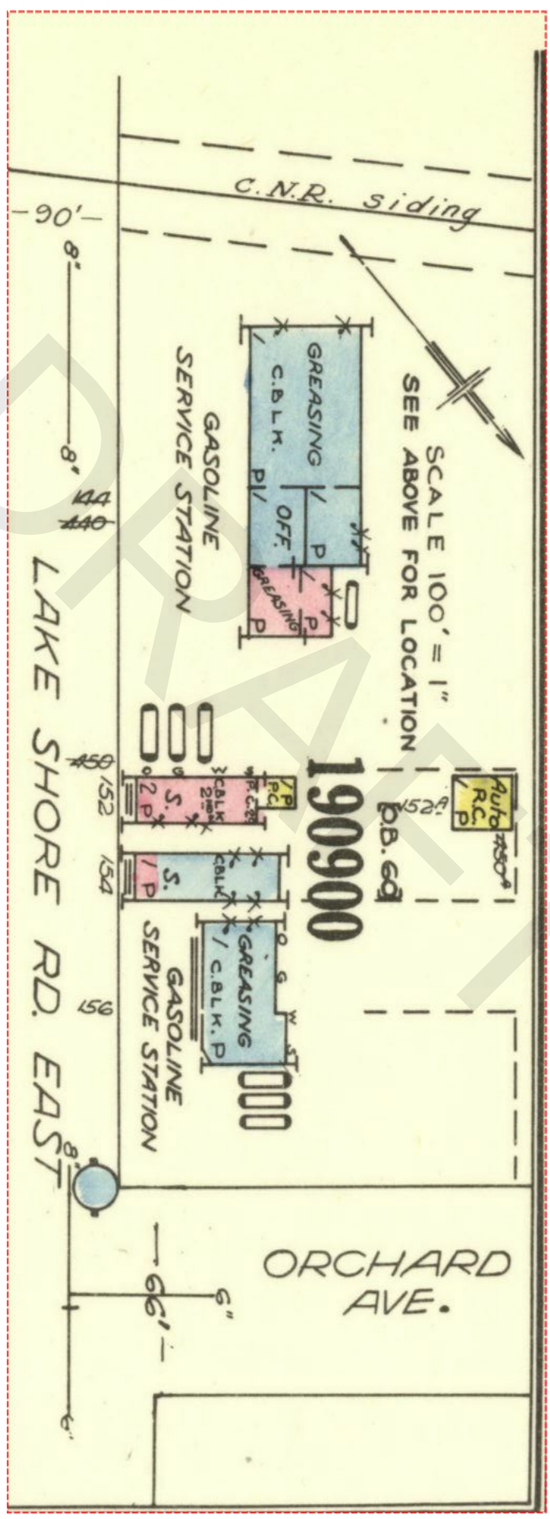
This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1909
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1909 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

OPTA INFORMATION INTELLIGENCE



DRAFT

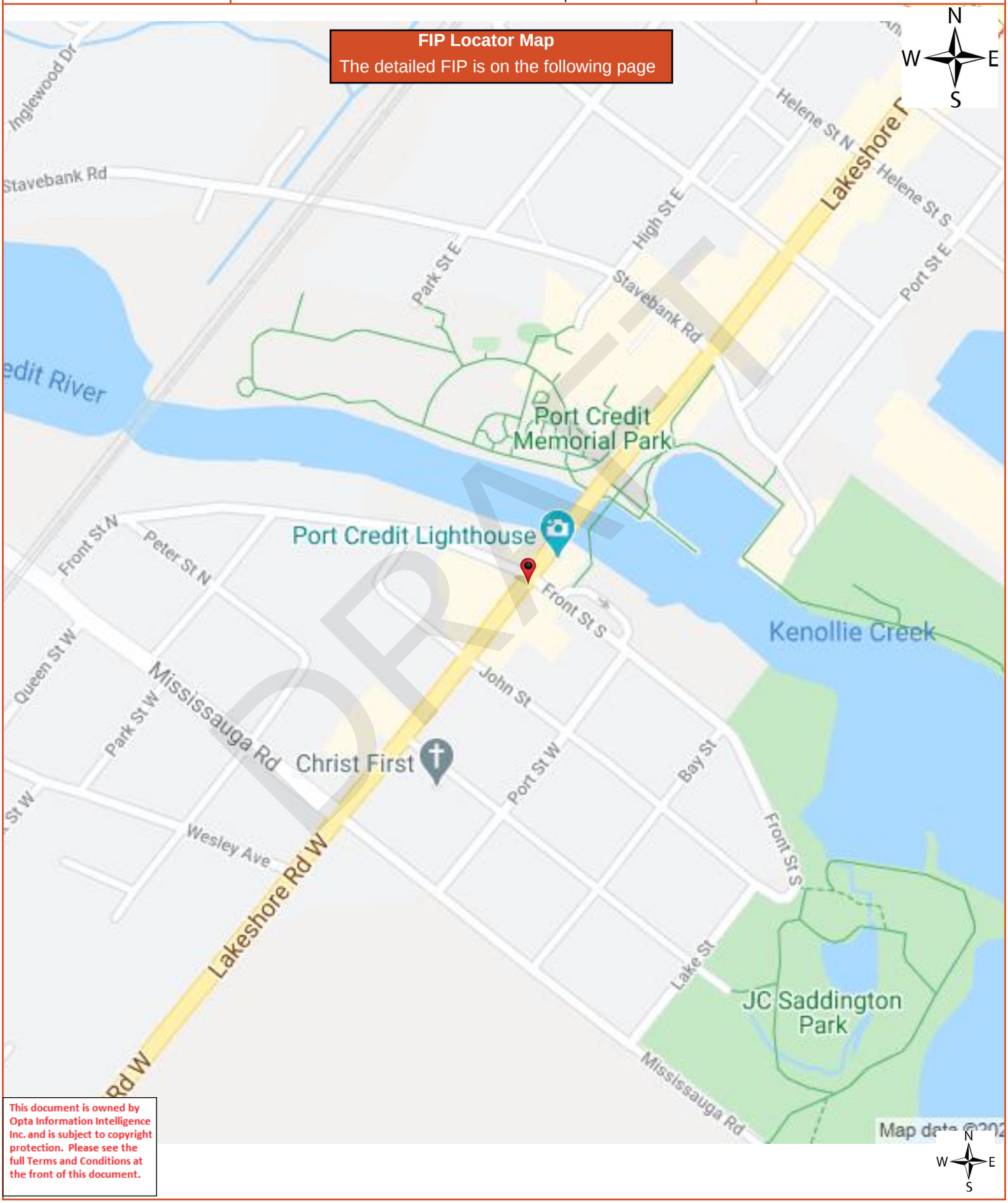
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1909
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1909 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

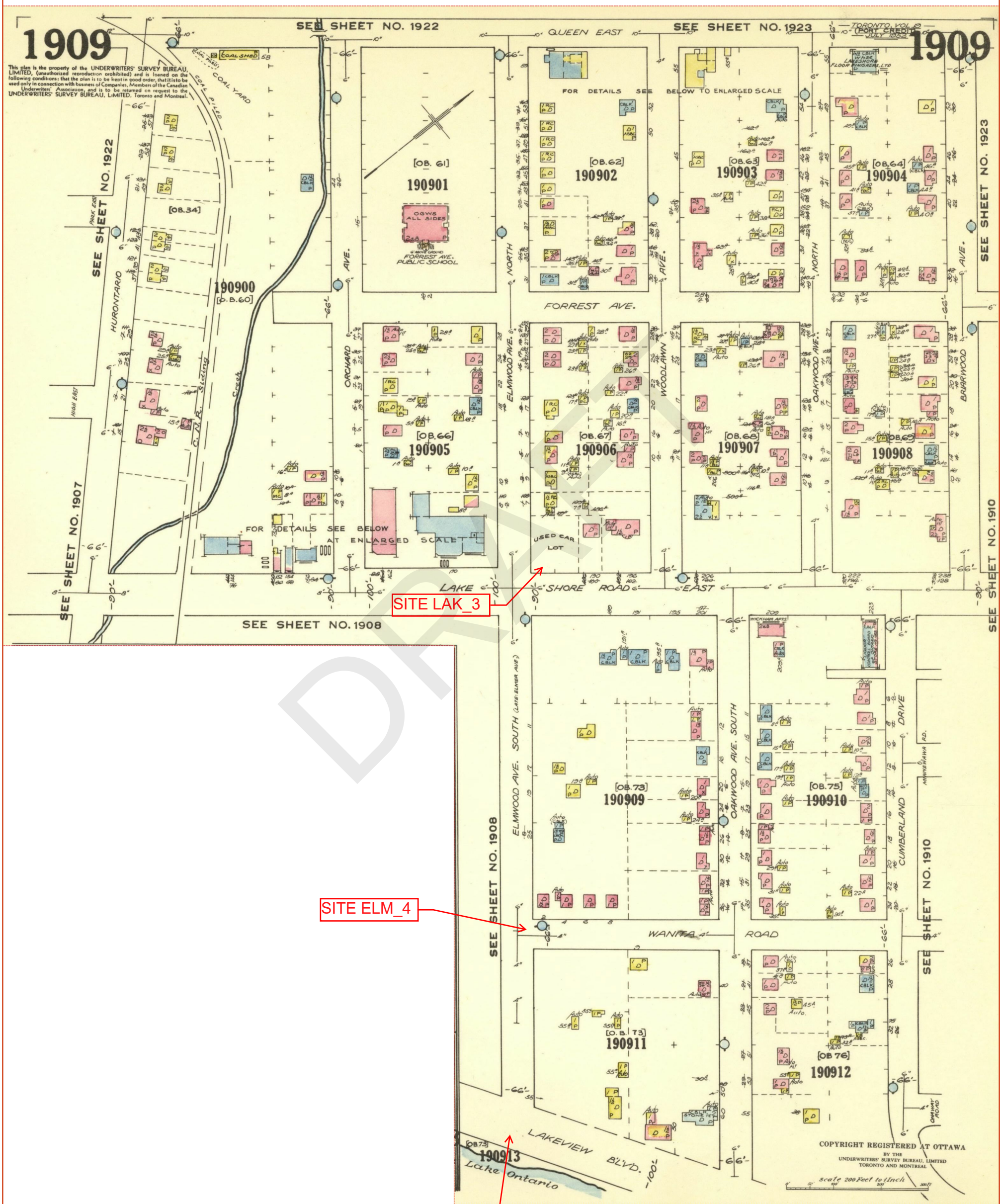
FIP Locator Map
The detailed FIP is on the following page



DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

1952 Volume: Toronto 19 Firemap: 1909
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1909 (1952)



DRAFT

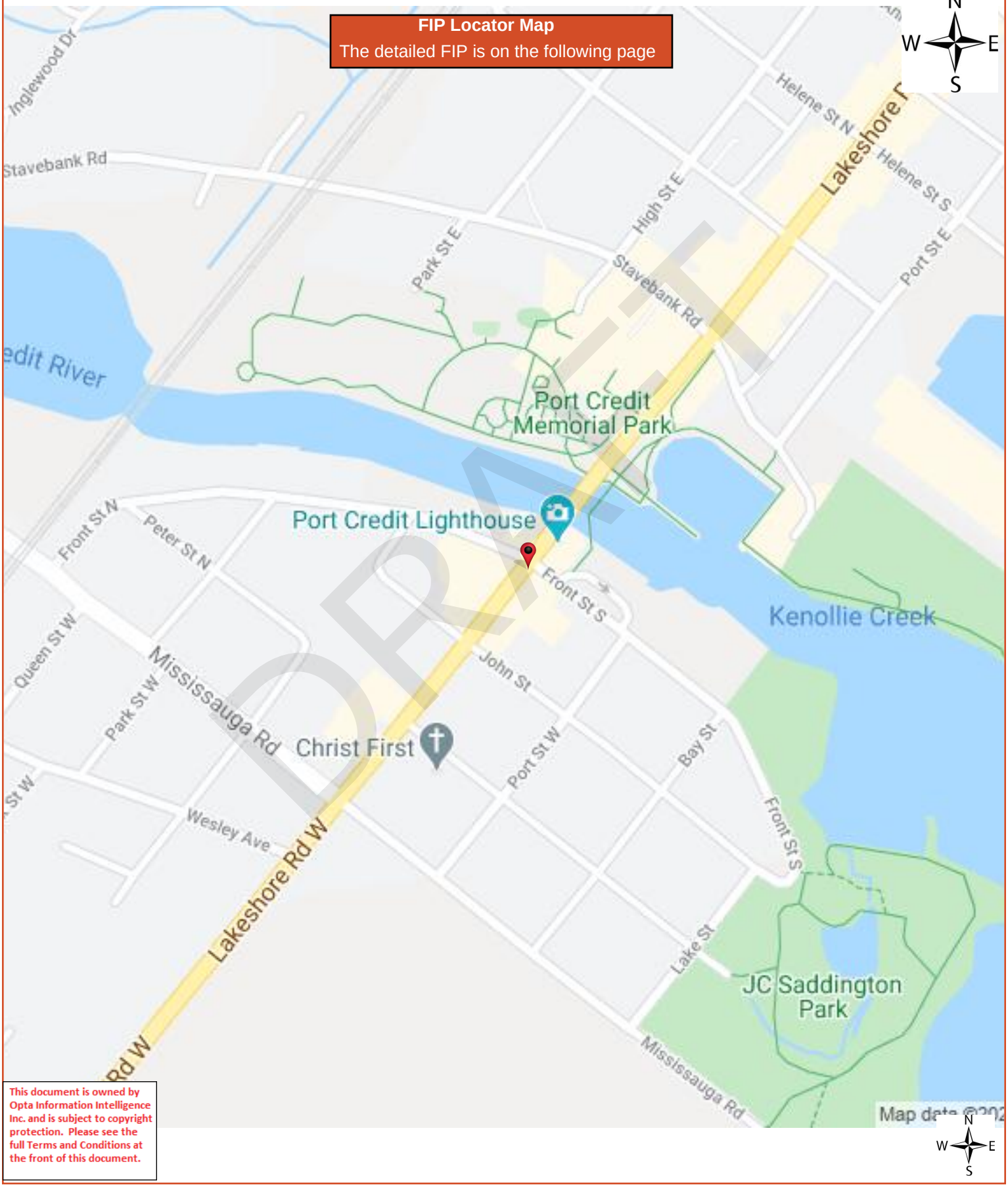
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1909
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1909 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

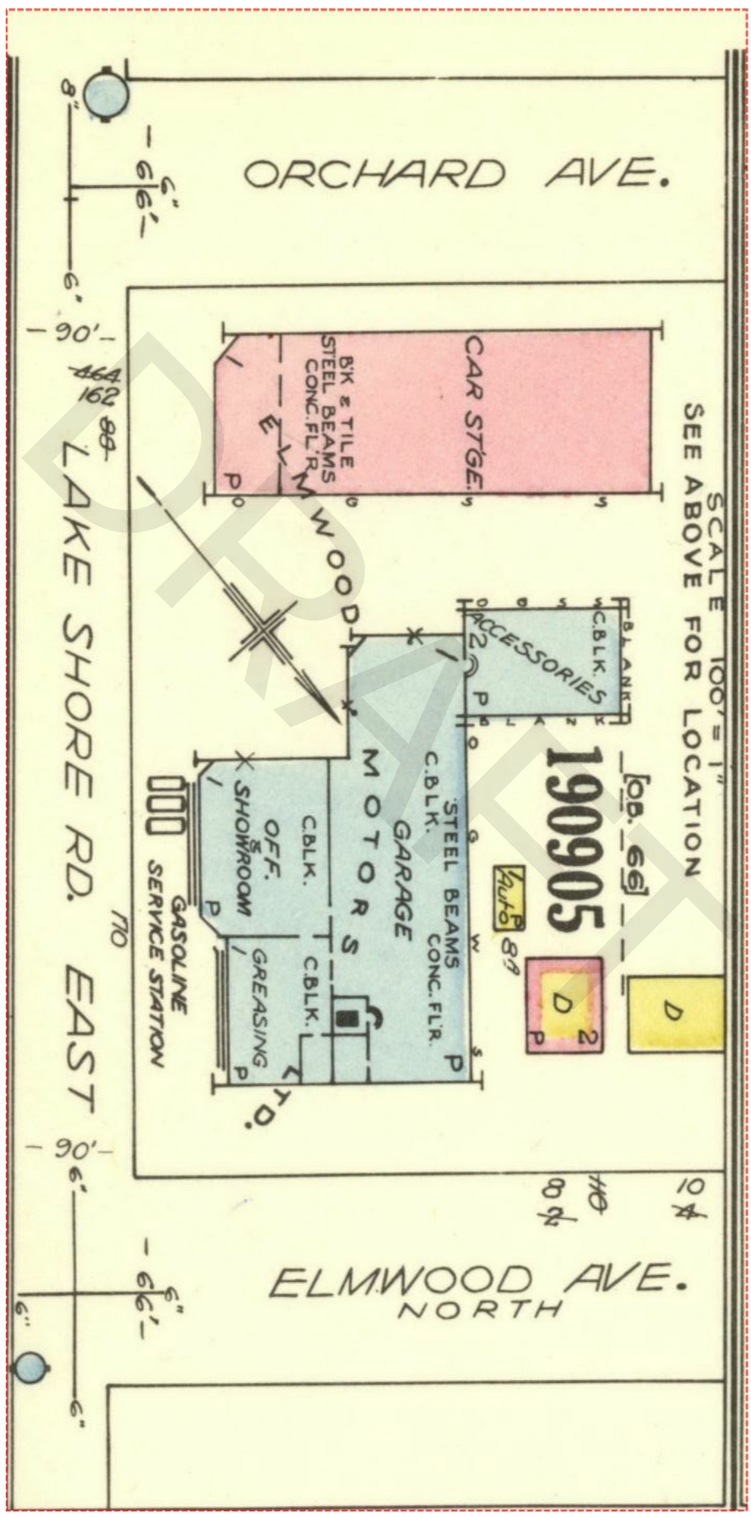


DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

1952 Volume: Toronto 19 Firemap: 1909
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1909 (1952)

OPTA INFORMATION INTELLIGENCE



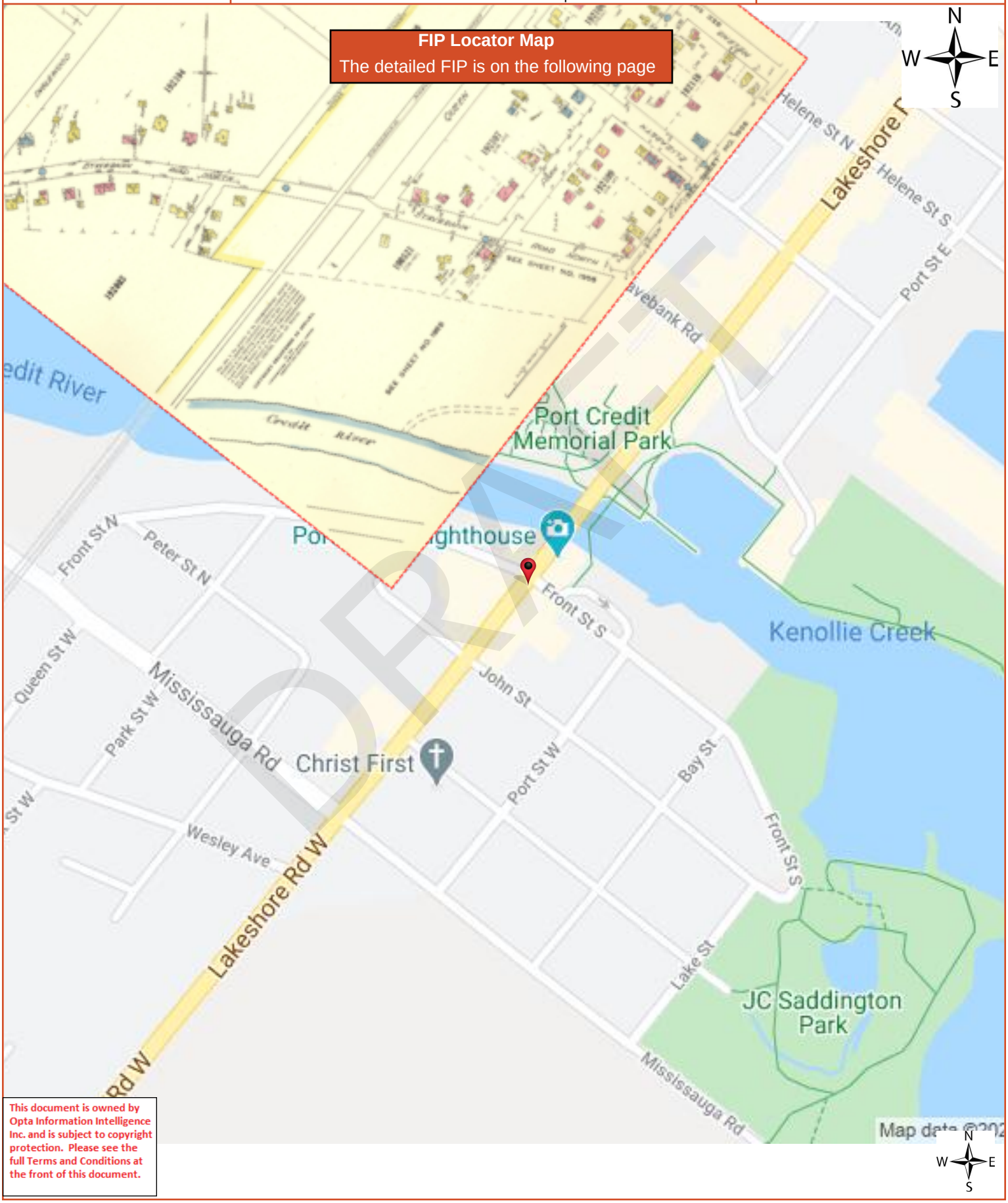
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1921
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1921 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

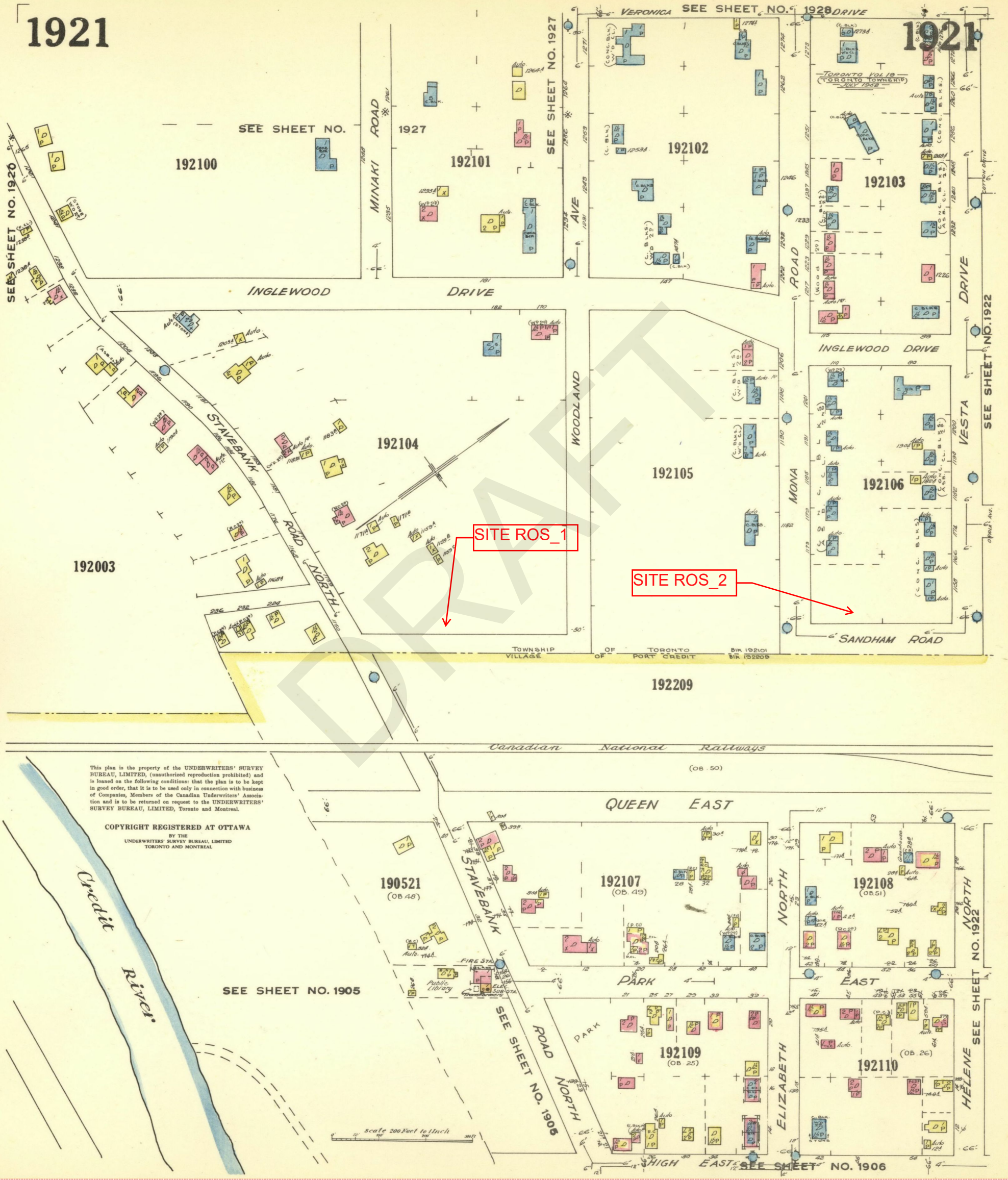
FIP Locator Map
The detailed FIP is on the following page



DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

1952 Volume: Toronto 19 Firemap: 1921
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1921 (1952)



DRAFT

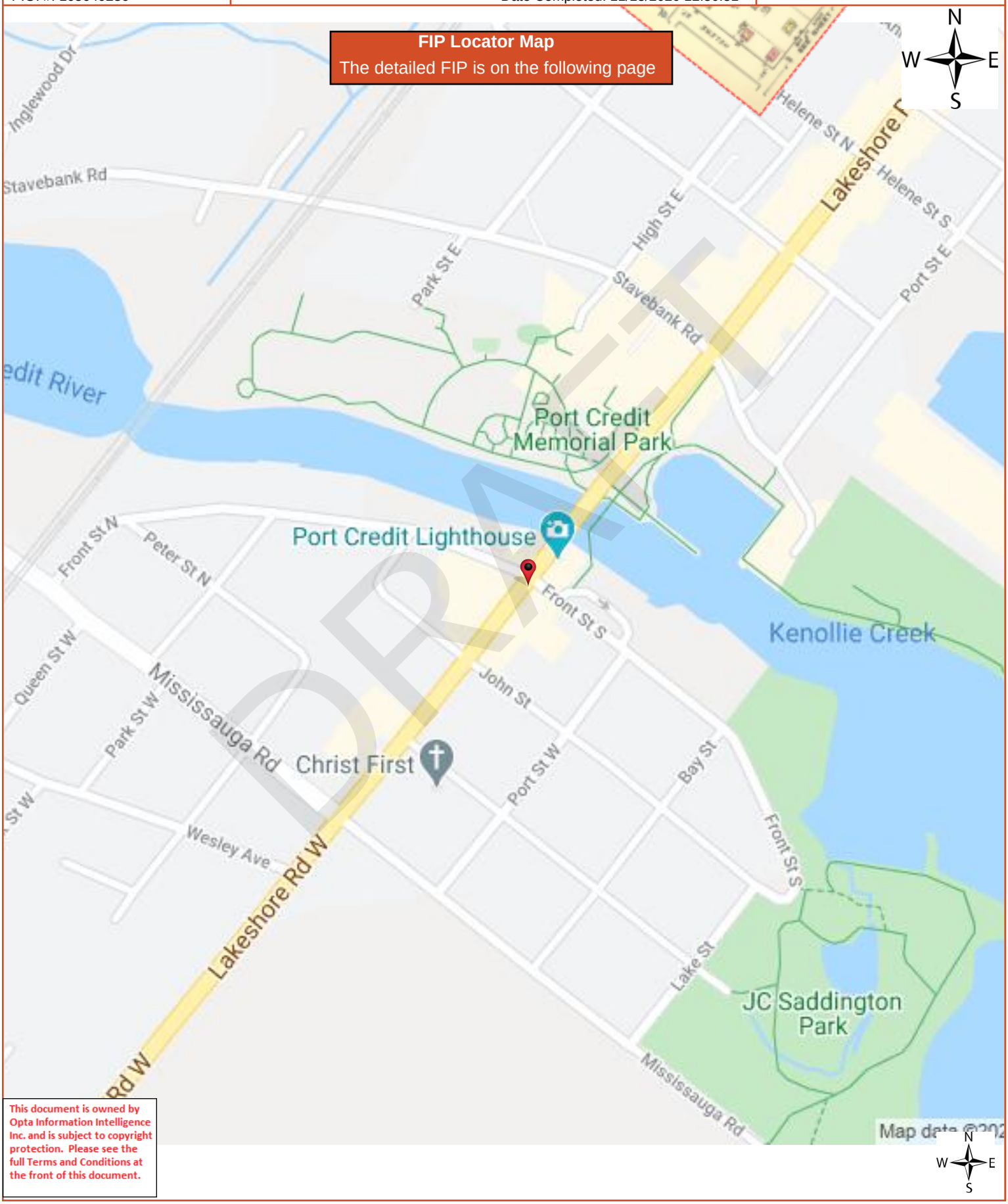
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1922
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1922 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



DRAFT

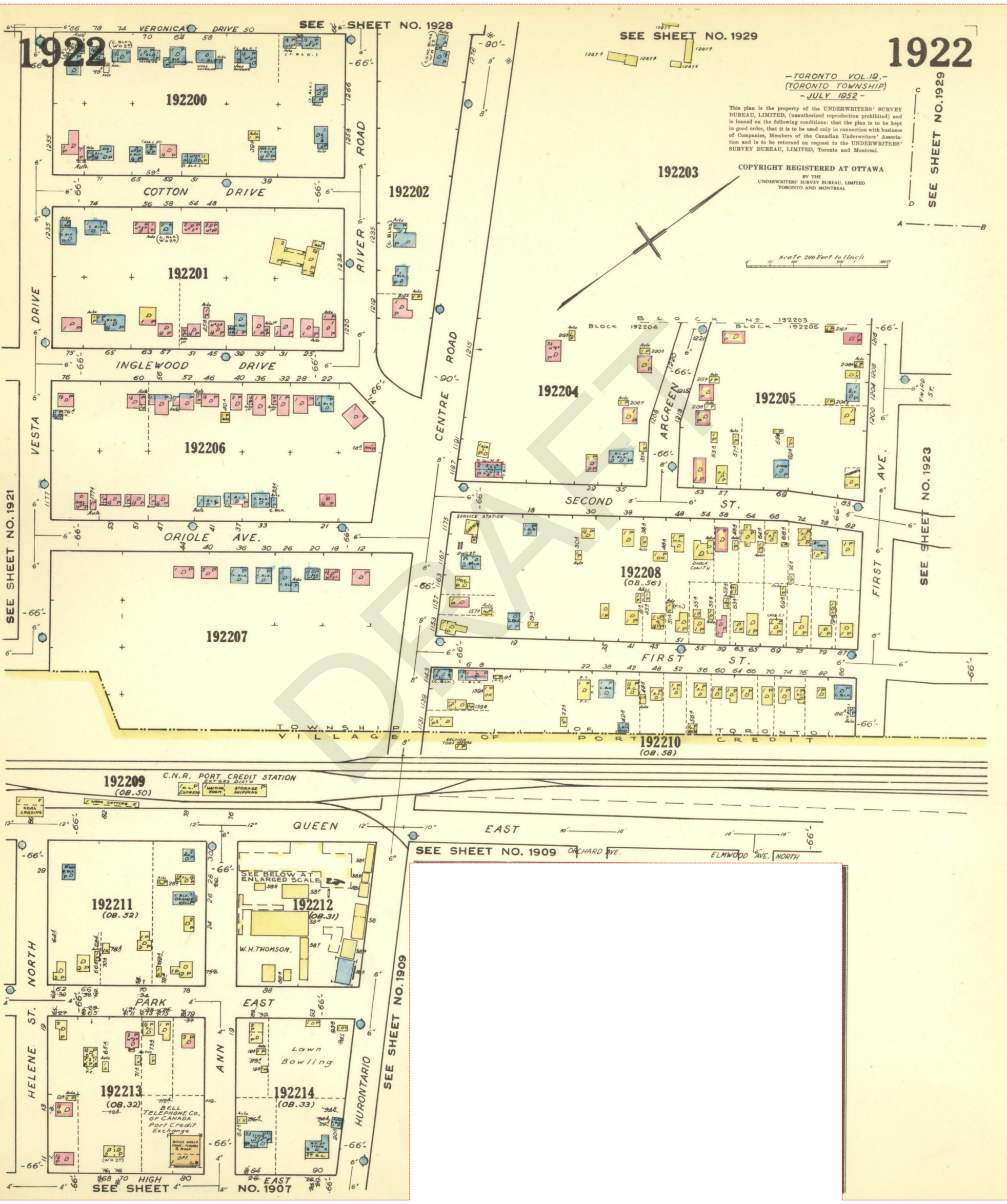
This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1922
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1922 (1952)

Requested by:
Eleanor Goolab
Date Completed: 11/13/2020 12:30:31

opta
INFORMATION INTELLIGENCE
OPTA INFORMATION INTELLIGENCE



DRAFT

opta
INFORMATION INTELLIGENCE

enviroscan

DRAFT

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Stephanie

Site Address:
43.55518 79.58848

Project No:

22090900174

Opta Order ID:
114104

Requested by:
Eleanor Goolab
Ecolog Eris

Date Completed:
9/14/2022 7:02:46 PM

Project Name: Port Credit WWW

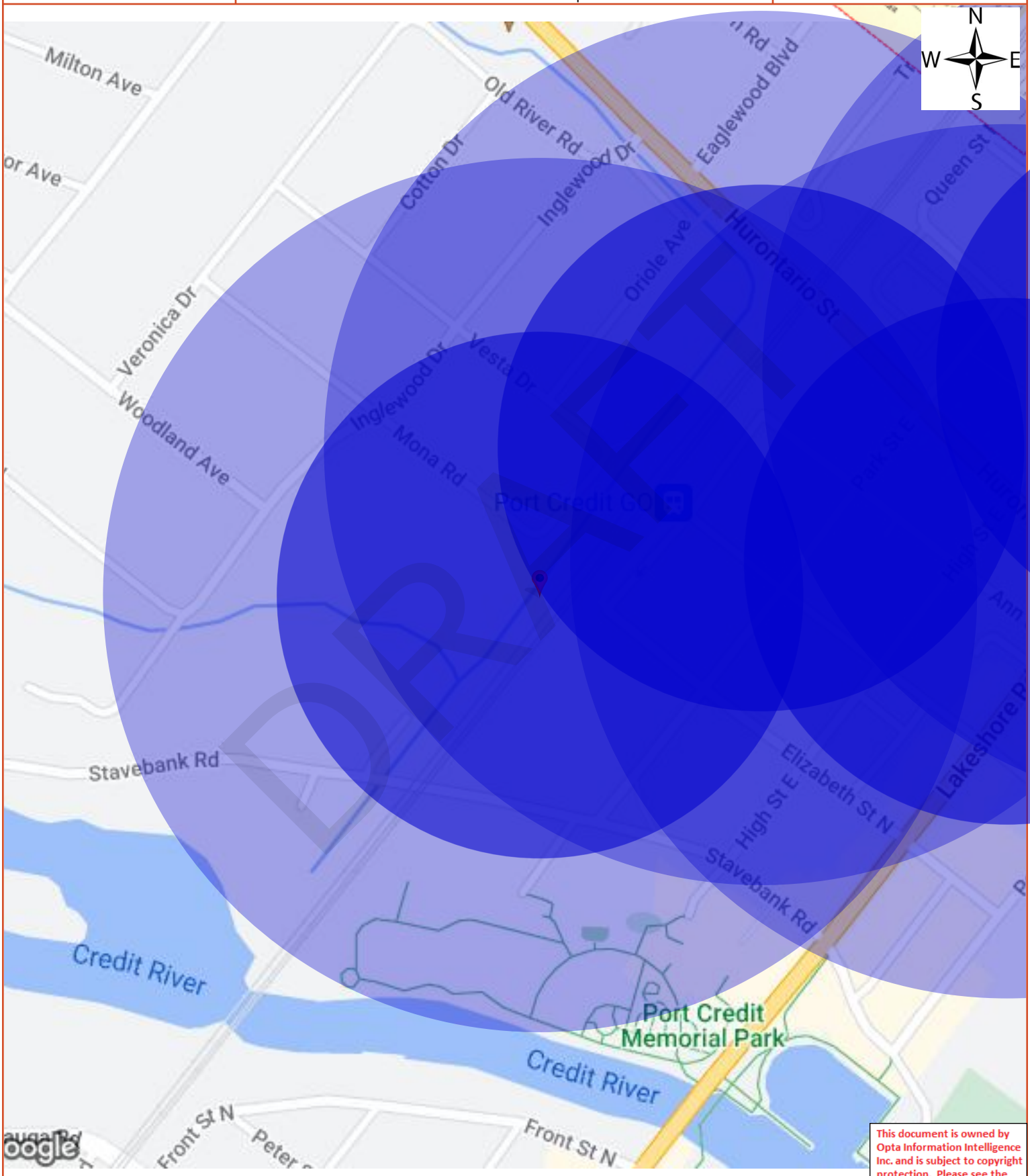
Project #: 22090900174

ENVIROSCAN Report

Search Area: 43.55518 79.58848

Requested by:
Eleanor Goolab
Date Completed: 09/14/2022 19:02:46

enviroscan
OPTA INFORMATION INTELLIGENCE



This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

DRAFT

ENVIROSCAN Report

Report Index

Requested by:
Eleanor Goolab
Date Completed: 09/14/2022 19:02:46

OPTA INFORMATION INTELLIGENCE

Page	Report Title
6	(1952) Volume: Toronto Volume 19 Firemap: 1910
8	(1952) Volume: Toronto Volume 19 Firemap: 1923

DRAFT

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

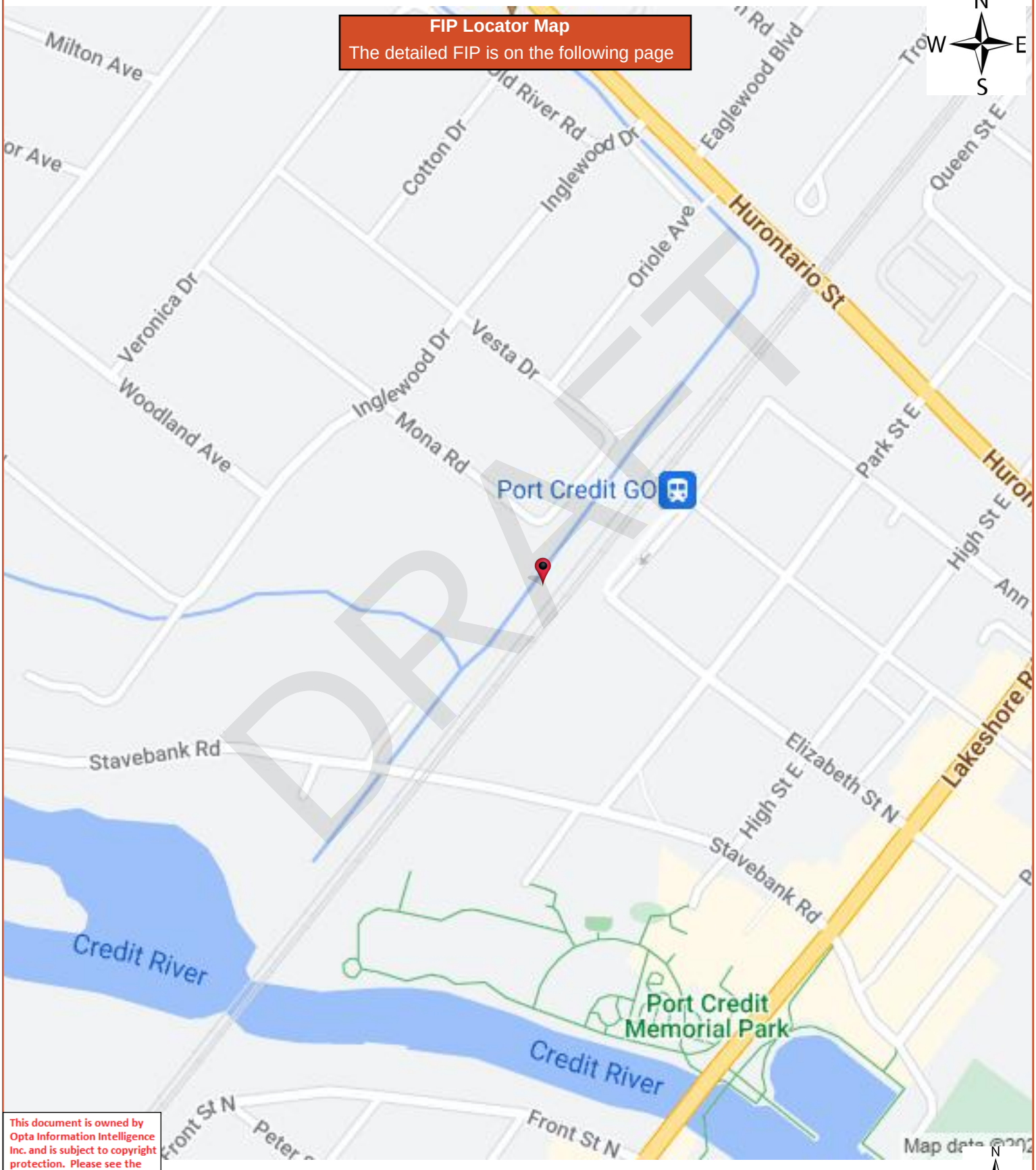
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1910
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1910 (1952)

Requested by:
Eleanor Goolab
Date Completed: 09/14/2022 19:02:46

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



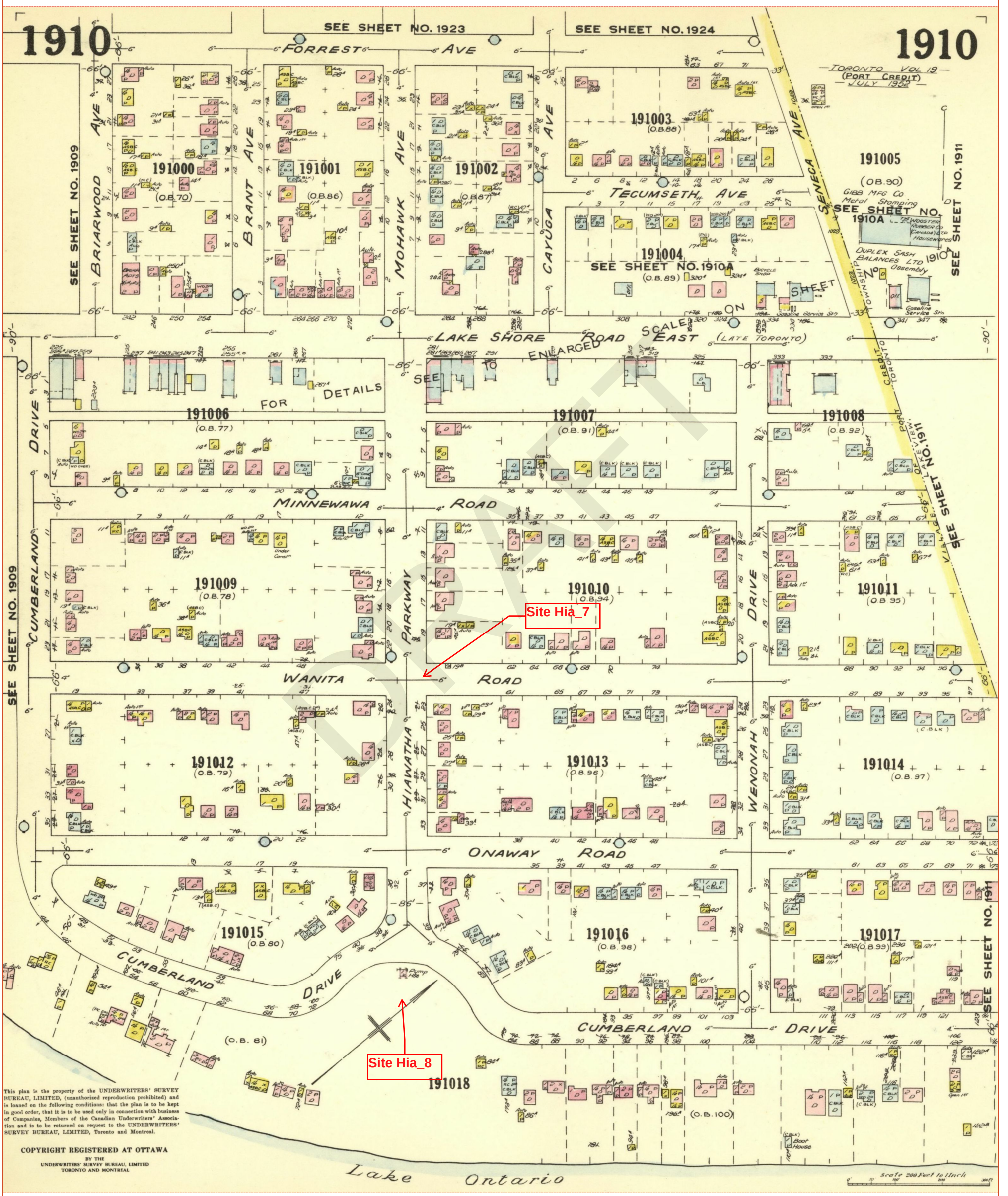
This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1910
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1910 (1952)

Requested by:
Eleanor Goolab
Date Completed: 09/14/2022 19:02:46

OPTA INFORMATION INTELLIGENCE



DRAFT

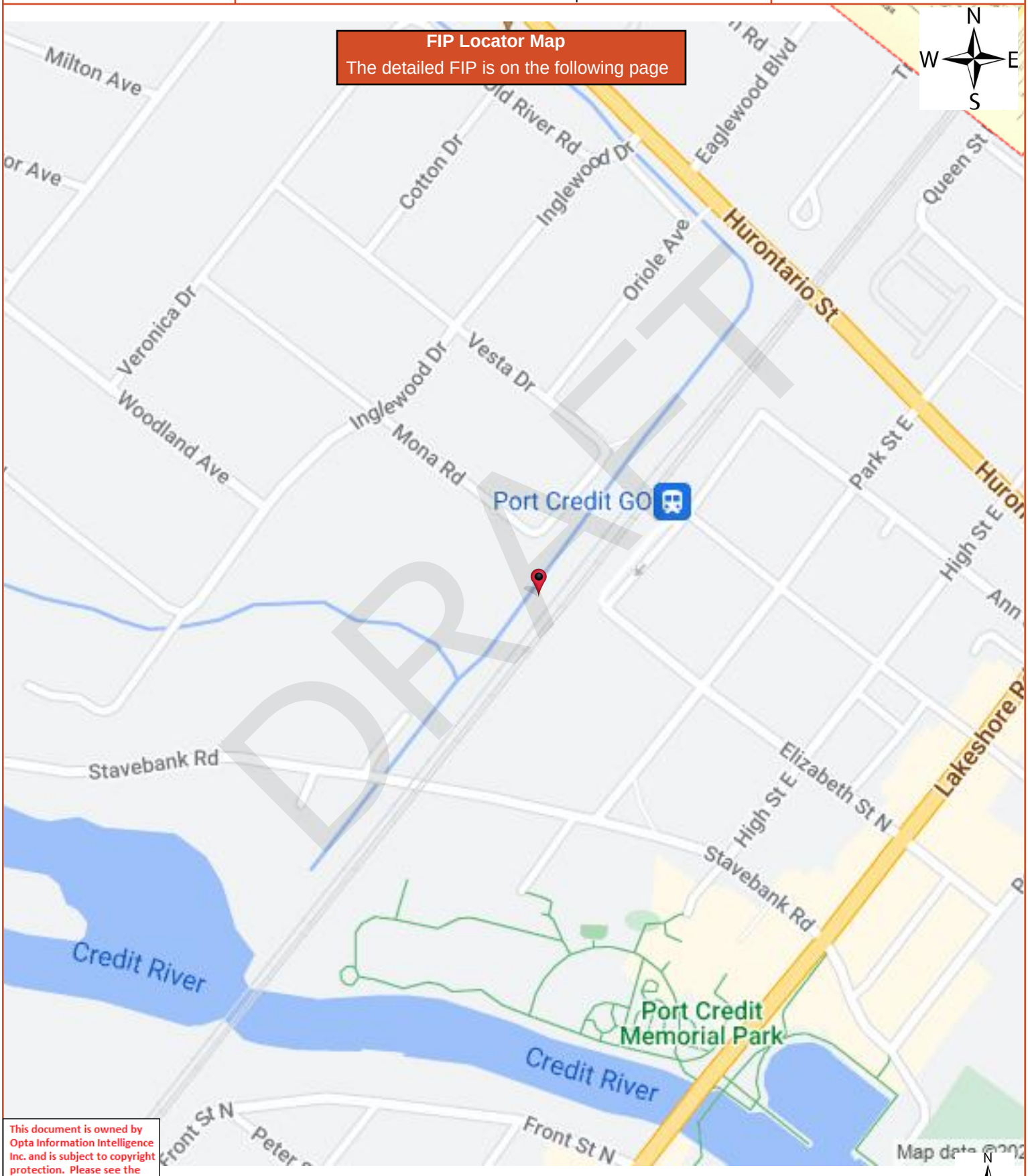
ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1923
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1923 (1952)

Requested by:
Eleanor Goolab
Date Completed: 09/14/2022 19:02:46

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



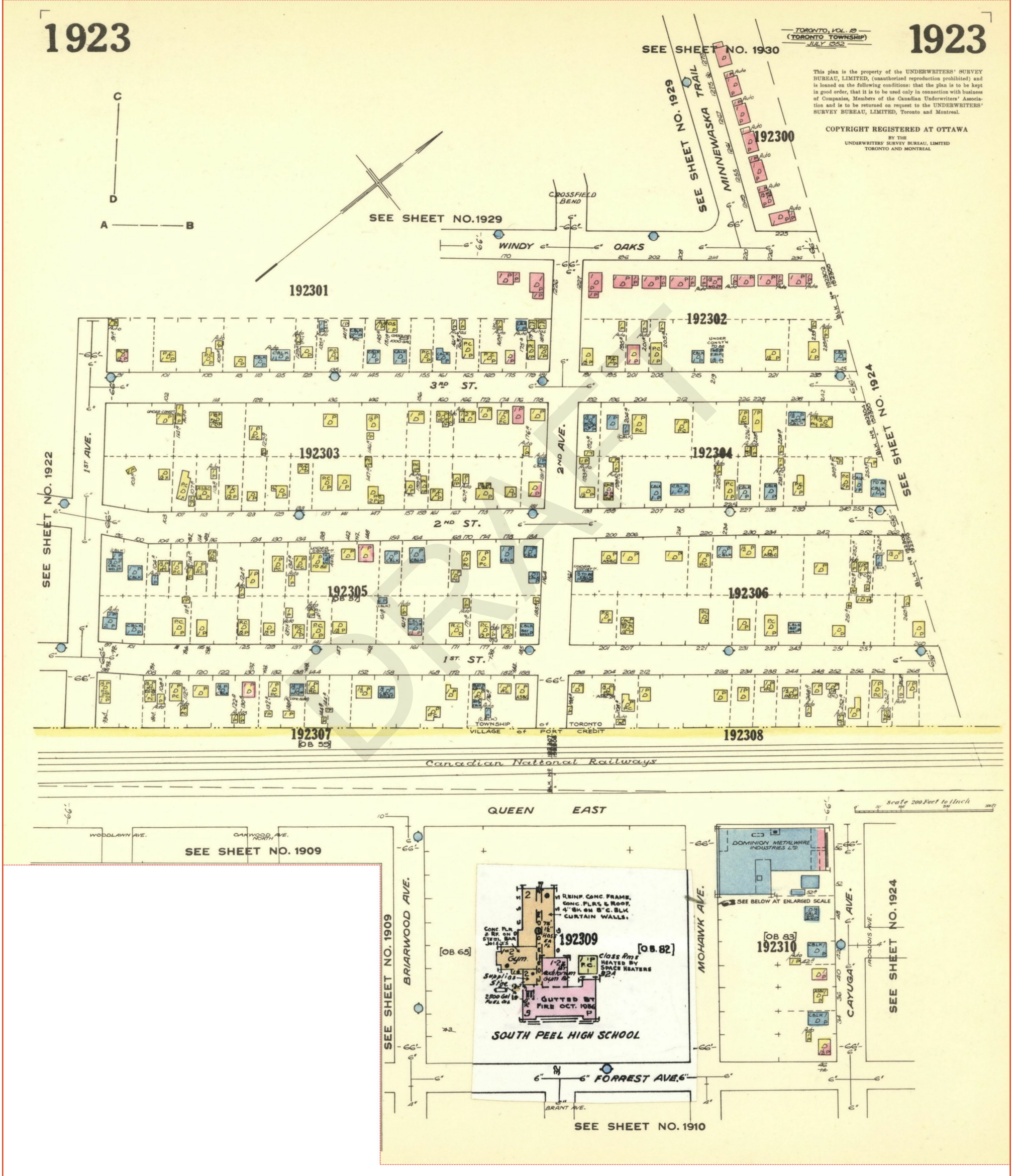
This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

ENVIROSCAN Report

1952 Volume: Toronto 19 Firemap: 1923
Toronto Vol. 19 Plan: 2180 (1952)
Sheet: 1923 (1952)

Requested by:
Eleanor Goolab
Date Completed: 09/14/2022 19:02:46

OPTA INFORMATION INTELLIGENCE



DRAFT

DRAFT

APPENDIX B1:
ERIS REPORT SUMMARY

Date:	9/6/2022	File:	719033
To:	GMBP Team		
From:	Mark Ongarato		
Project:	Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule C Class Environmental Assessment		
Subject:	ERIS report review for Phase One ESA		

TECHNICAL MEMO

For the purposes of this memo, the direction "north" means the direction along Hurontario Street toward Highway 403.

Notes:
Items in Blue text represent records returned by the ERIS Report that are considered to indicate the most significant records within the project Study Area and outside of the immediate 100 m study area of each Site.
Items in Red text represent records returned by the ERIS Report that are considered to indicate the most significant records within the project Study Area and are within the immediate 100 m study area of a particular Site.
UST – underground storage tank
(2) – number of records in a specific database (where number of records is greater than 1)

Rosemere Rd (and area)
(ROS_1 & ROS_2)

ERIS Database	No. of Records	Results
Site		
Certificate of Approval	4	3 records of Municipal Sewage Approval in 1994 - 182 Rosemere Rd. – R.M. of Peel - Sew. P.S. 1 record of industrial air, Standby Gen-Set for sewage pump station – Nitrogen Oxides, Sulphur Dioxide – 182 – Rosemere Rd – R.M. of Peel – Sew. P.S.
Environmental Activity and Sector Registry	2	2 records for Water taking – Construction Dewatering – 182 Rosemere Rd, The Regional Municipality of Peel – February 11, 2020 & June 9, 2020
Environmental Compliance Approval	1	1 record for equipment and emission sources at the Rosemere Road Sewage Pumping Station - 182 Rosemere Rd – April 14, 2020
Study Area		
Borehole	83	Numerous records of boreholes at properties in the Study Area.
Environmental Activity and Sector Registry	1	1 record for construction dewatering – 30 Queen St. E – Salini Impregilo Civil Works Inc. – April 30, 2021
Environmental Compliance Approval	1	1. 1 record for Municipal and Private Sewage Works – 1130 Mona Rd 1136 & 1138 Mona Rd – April 13, 2022
ERIS Historical Searches	10	1. At Queen St E, east of Helene St N – Fire Insurance maps and/or site plans; city directory; aerial photos 2. 24 Ann St – Fire insurance maps and/or site plans; city directory; aerial photos – April 26, 2018 3. 1142 Mona Rd. – RSC report (urban) – Fire insurance maps and/or site plans – May 1, 2017 4. 3 reports at 200 Lakeshore Rd. E – Custom report February 4, 2010, Custom report May 25, 2015, & RSC Report (urban) April 19, 2017 5. North of Queen St E, southeast of Sandham Rd. – RSC Premium Package (Urban) – August 28, 2014

DRAFT

		6. 70 Park St. E – Custom Report – Fire insurance maps and/or site plans – March 8, 2022 7. 28 Helene St N – Standard Report - March 26, 2008 8. HuLRT WZ1 WWIS – Custom Report – September 21, 2020
Ontario Regulation 347 Waste Generators Summary	48 *(total of all 4 study areas)*	Numerous records of registered waste generation at properties in the Study Area.
Permit to Take Water	1	30 Queen St E – SALINI IMPREGILO CIVIL WORKS INC – May 21, 2021
Scott's Manufacturing Directory	1	25 Helene St N – Richard's Fine Chocolates Inc – Confectionery Manufacturing from purchased chocolate – Established August 1, 1996
Ontario Spills	2	1171 Stavebank Rd – Private residence – FURNACE OIL TANK – underground fuel oil line leak in basement – February 28, 1995 (approx. 100m from ROS_1). 39 Stavebank Rd – PETRO-CANADA – Mississauga refinery/lubricants centre 385 Southdown Road – 4500 kg hot asphalt to contained area fumes/vapours to atm. – May 14, 1993
Water Well Information System	65 *(total of all 4 study areas*	Numerous records of water wells at properties in the Study Area.

DRAFT

Lakeshore Rd E (and area)
LAK_3

ERIS Database	No. of Records	Results
Site		
None	0	3 Elmwood Ave. N.
Study Area		
Borehole	83	Numerous records of boreholes at properties in the Study Area.
Certificates of Approval	2	1. High St., Park St. E & Hurontario St, Mississauga – Municipal & private water – Watermain and appurtenances. 2. 1 Hurontario St - F.S. Port Credit Development Limited – Municipal and Private Sewage Works – November 20, 2007.
Commercial Fuel Oil Tanks	1	1. 80 High St. E – Bell Canada – Fiberglass Double Wall UST – 5,000 gal FS fuel oil tank – March 6, 2014
Delisted Fuel Tanks	23	1. 11 expired records at 158 Lakeshore Rd. E – Beaver Fuels Management Limited Att: Leon Chabot – FS facility (1 record), PS piping (5 records), FS liquid fuel tank (5 records) – dates “up to March 2012” and “February 28, 2017” 2. 1 record for FS Gasoline Station (active) at 150 Lakeshore Rd. E – May 31, 2021 3. 4 records for FS Liquid Fuel Tank at 150 Lakeshore Rd. E - Parkland Fuel Corporation (expired) – July 31, 2020 4. 7 records for FS Liquid Fuel Tank at 150 Lakeshore Rd. E - Pioneer Energy Management (expired) – July 31, 2020 5. 80 High St. E – Bell Canada – Fiberglass Double Wall UST – 5000-gal FS fuel oil tank – May 31, 2021
Environmental Compliance Approval	1	1. 1 record for municipal and private sewage works – 1 Hurontario St. – F.S. Port Credit Development Limited – November 20, 2007
ERIS Historical Searches	17	1. 170 Lakeshore Rd. E – Fire Insurance maps and/or Site plans – February 10, 2017 2. 2 reports at 91 Park St E – Custom Report: January 6, 2014, and RSC report (urban) April 4, 2018 3. 160 Lakeshore Rd. E – Fire insurance maps and/or site plans – March 8, 2018 4. East of Ann St, north of Park St E – Standard report – June 12, 2020 5. 150 Lakeshore Rd E – Standard report - Fire insurance maps and/or site plans; Title searches 6. High St E., Ann St. – Custom Report – November 26, 2020 7. 90 High St E – Standard Report -March 1, 2018 8. 158 Lakeshore Rd E – Custom Report – November 23, 2016 9. 84 & 90 High St E – RCS Report (urban); City Directory – September 24, 2019 10. 5 Woodlawn Ave – Standard Report – Fire insurance maps and/or site plans – January 25, 2022 11. 187 A Lakeshore Rd E – Standard Report – August 9, 2017

DRAFT

		12. 24 & 28 Elmwood Ave N and 27 Rosewood Ave - Custom Report – June 27, 2017 13. 125/129/139 Lakeshore Rd E & 65/80 Port St – Custom Report – Fire Insurance maps and / or Site plans – September 14, 2007 14. 206-212 Lakeshore Rd E – Custom Report – February 2, 2006 15. 206-212 Lakeshore Rd E & 8 Oakwood Ave N – Standard Report – August 27, 2019 16. 206-212 Lakeshore Rd E & 8 Oakwood Ave N – Custom Report – February 5, 2011
Fuel Storage Tank	12	1. 6 Records for 150 Lakeshore Rd E – PARKLAND CORPORATION– 2 records for double wall UST: liquid fuel storage fiberglass tank (60,000L): installed March 20, 2012 - 1 record for Double wall UST: liquid fuel storage fiberglass tank (50,000L) installed May 8, 2009 – 2 records for double wall UST: liquid fuel storage fiberglass tank (29,000L) installed May 8, 2009 – 1 record for Double Wall UST: liquid fuel fiberglass tank (20,000L) installed May 8, 2009 2. 6 Records for 150 Lakeshore Rd E – PIONEER ENERGY MANAGEMENT INC. – 4 records for internally lined steel liquid fuel single wall UST (22,700L), installed October 2, 1989 – 2 records for sacrificial anode steel liquid fuel single wall UST (13,600L) installed on May 18, 1993
Fuel Storage Tank – Historic	2	1. records (as of December 2008) for 4 active tanks at 150 Lakeshore Rd. E – PIONEER PETROLEUMS MANAGEMENT INC - liquid fuel double wall UST – Gasoline (20,000L, 50,000L, 29,000L, 29,000L), each installed in 1995 2. records for 150 Lakeshore Rd. E – PIONEER PETROLEUMS MANAGEMENT INC - removal of 6 liquid fuel single wall UST – GASOLINE – tanks installed in 1978 and removed as of August 2007 (sized 22,700L, 22,700L, 22,700L, 22,700L, 13,600L, 13,600L)
Ontario Regulation 347 Waste Generators Summary	48 *(total of all 4 study areas)*	Numerous records of registered waste generation at properties in the Study Area.
Fuel Spills and Leaks	2	5 Elmwood Ave. S. – 1/2" pipeline hit – FS-incident –date of incident not specified 20 Rosewood Ave. – Fuel oil spill – petroleum product – 20 to 30 feet maybe more – UST hit by backhoe – June 18, 2010
Pipeline Incidents	3	1. 90 High St. E. – 1/2” pipeline hit – FS-pipeline incident – NATURAL GAS – April 13, 2012 2. 1 Hurontario St. – gas leak on 2” pipe – NATURAL GAS vapour release – August 3, 2011 3. 22 Woodlawn Ave. – 1/2" pipeline hit – not investigated – FS-Pipeline – July 11, 2014

DRAFT

Private and Retail Fuel Storage Tanks	5	150 Lakeshore Rd E – retail 150 Lakeshore Rd E – PIONEER PETROLEUMS ATTN LOLA LAURIE - retail – expiry date: March 31, 1994 150 Lakeshore Rd E – PIONEER PETROLEUMS ATTN LOLA LAURIE – retail – expiry date: July 31, 1995 – (2,000L capacity) 150 Lakeshore Rd E – PIONEER PETROLEUMS ATTN LOLA LAURIE – retail – expiry date: March 31, 1996 – (118,000L capacity) 150 Lakeshore Rd E – PIONEER PETROLEUMS ATTN LOLA LAURIE – retail – expiry date: July 31, 1995 – (2000L capacity)
Record of Site Condition	1	15 Hurontario St – F.S. PORT CREDIT DEVELOPMENT LIMITED – commercial to residential property use – certified September 28, 2007
Retail Fuel Storage Tanks	1	150 Lakeshore Rd E – PIONEER PETROLEUMS – service stations – GASOLINE, OIL & NATURAL GAS
Scott's Manufacturing Directory	4	177 Lakeshore Rd E – AUTASCO GROUP – Quick printing, digital printing, manifold business forms printing, other printing, administrative management and general management consulting services, direct mail advertising – 4,000 sqft – EST 1959 161 Lakeshore Rd E – ACCESS CONTROL SALES LTD – Electrical wiring and construction supplies wholesaler-distributors, wholesale trade agents and brokers, electronic and precision equipment repair and maintenance, professional machinery, equipment and supplies wholesaler-distributors, electrical wiring and construction supplies wholesaler-distributors, electronic components, navigational and communications equipment and supplies wholesaler-distributors – EST AUGUST 1, 1986 145 Lakeshore Rd E – NORDEX EXPLOSIVES LTD – explosives manufacturing (main office)
Ontario Spills	10	170 Lakeshore Rd E – ELMWOOD MEAT MARKET – elmwood meat market: dumping of meat/animal byproducts – possible surface water pollution – August 10, 2009 25 Hurontario St. – OSHAWA FOODS RETAIL STORE – 34 kg freon R-22 to atm, line leak, repaired – possible air pollution – February 19, 1996 200 Lakeshore Rd E – PETRO-CANADA SERVICE STATION – 15L gasoline to asphalt due to ov/filling – May 19, 1991 20 Rosewood Ave – GREENSPOON SPECIALTY CONTRACTING LTD – construction site – diesel fuel and water mixture – soil contamination – underground tank leak – UST 500 L diesel & water to ground – June 18, 2010 150 Lakeshore Rd E – PIONEER PETROLEUMS LTD – leak or propane from storage tank, isolated – air - January 8, 1997 150 Lakeshore Rd E – PIONEER PETROLEUMS LTD – service station – unknown amount of propane to air – February 3, 2001

DRAFT

		150 Lakeshore Rd E – PIONEER PETROLEUMS LTD – service station – unknown quantity of gasoline to ground, leak detector line leak – March 23, 1995 22 Woodlawn Ave – TSSA FSB: 0.5" service line ,made safe – leak/break – NATURAL GAS – air – July 11, 2014 80 High St –SANITARY SEWER BLOCKAGE – raw sewage/unchlorinated surcharge to private property – December 7, 2017 80 High St – BELL CANADA – 5L diesel fuel spill to ground, contained – equipment failure – October 16, 2018
Water Well Information System	65 *(total of all 4 study areas*	Numerous records of water wells at properties in the Study Area.

DRAFT

Elmwood Ave S (and area)
ELM_4, ELM_5, and ELM_6

ERIS Database	No. of Records	Results
Site		
-	-	
Study Area		
Aboveground Storage Tanks	10	1. St. Lawrence Dr. south of Compass Way – no company listed – no address listed – Petroleum Tank – May 22, 1998 2. St. Lawrence Dr. south of Compass Way – no company listed – no address listed – Petroleum Tank – May 22, 1998 3. St. Lawrence Dr. south of Compass Way – no company listed – no address listed – Petroleum Tank – May 22, 1998 4. St. Lawrence Dr. south of Compass Way – no company listed – no address listed – Petroleum Tank – May 22, 1998 5. St. Lawrence Dr. Southeast of Port St E– no company listed – no address listed – Petroleum Tank – May 22, 1998 6. St. Lawrence Dr. Southeast of Port St E– no company listed – no address listed – Petroleum Tank – May 22, 1998 7. St. Lawrence Dr. south of Waterside Dr.– no company listed – no address listed – Petroleum Tank – May 22, 1998 8. St. Lawrence Dr. south of Waterside Dr.– no company listed – no address listed – Petroleum Tank – May 22, 1998 9. St. Lawrence Dr. south of Waterside Dr.– no company listed – no address listed – Petroleum Tank – May 22, 1998 10. Compass Way, north of Waterside Dr. and west of St. Lawrence Dr.– no company listed – Petroleum Tank – May 22, 1998
Borehole	83	Numerous records of boreholes at properties in the Study Area.
Ontario Regulation 347 Waste Generators Summary	48 *(total of all 4 study areas)*	Numerous records of registered waste generation at properties in the Study Area.
TSSA Historic Incidents	1	35 Oakwood Ave S - Vapour release – NATURAL GAS – private dwelling - human factors – May 31, 2007
Pipeline Incidents	1	1/2" pipeline hit – Service pipeline – NATURAL GAS – May 25, 2011
Ontario Spills	3	Elmwood Dr and Carlis Place - THE CORPORATION OF THE CITY OF MISSISSAUGA – Watermain break site – Surface water pollution – sewage, municipal /private and commercial – July 9, 2012 Elmwood Dr and Carlis Place - THE CORPORATION OF THE CITY OF MISSISSAUGA – Watermain break site – Surface water pollution – sewage, municipal /private and commercial – June 23, 2012 56 Oakwood Ave – PRIVATE RESIDENCE – leaking underground tank, fuel in basement – underground tank leak – January 30, 1998
Water Well Information System	65 *(total of all 4 study areas*	Numerous records of water wells at properties in the Study Area.

DRAFT

Hiawatha Pkwy (and area)
HIA_7, and HIA_8

ERIS Database	No. of Records	Results
Site		
Certificates of Approval-	1	R.M. of Peel – Hiawatha Pkwy & Cumberland Dr. – Standby Diesel Generator – July 20, 1990
Ontario Spills	1	Hiawatha Rd & Cumberland, CUMBERLAND STREET PUMPING STATION - Regional Municipality of Peel – 30-40 L Sewage & Groundwater mixture spill to land and storm drain – July 26, 1999
Study Area		
Borehole	83	Numerous records of boreholes at properties in the Study Area.
Ontario Regulation 347 Waste Generators Summary	48 *(total of all 4 study areas)*	Numerous records of registered waste generation at properties in the Study Area.
Fuel Oil Spills and Leaks	1	23 Hiawatha Pkwy – FS-Perform L1 incident insp – private dwelling - FIRE – natural gas – December 18, 2014
Ontario Spills	1	35 Cumberland Dr – ENBRIDGE GAS DISTRIBUTION – TSSA: 1/2" pl ip line strike – made safe – NATURAL GAS – May 30, 2017
Pesticide Register	4	Hiawatha forest products & services – 14 Hiawatha Pkwy e Hiawatha Tree & Lawn Service – 14 Hiawatha Pkwy
Pipeline Incidents	1	59 Cumberland Dr. – report received - FS-pipeline incident – November 30, 2021 35 Cumberland Dr. – 1/2" Pipeline hit – FS-pipeline incident – May 30, 2017
Water Well Information System	65 *(total of all 4 study areas*	Numerous records of water wells at properties in the Study Area.

DRAFT

DRAFT

APPENDIX B2:
ERIS REPORT

DATABASE REPORT

DRAFT

Project Property:	*Port Credit W/WW* *Port Credit W/WW* *Mississauga ON L5G 3M8*
Project No:	
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*22072501112*
Requested by:	*GM BluePlan Engineering Limited*
Date Completed:	*August 3, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Table of Contents.....2
Executive Summary.....3
Executive Summary: Report Summary.....4
Executive Summary: Site Report Summary - Project Property.....6
Executive Summary: Site Report Summary - Surrounding Properties.....12
Executive Summary: Summary By Data Source.....35
Map.....68
Aerial.....69
Topographic Map.....70
Detail Report.....71
Unplottable Summary.....433
Unplottable Report.....438
Appendix: Database Descriptions.....1531
Definitions.....1540

DRAFT

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Limited Partnership ("ERIS") using various sources of information, including information provided by Federal and Provincial government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report (s) are protected by copyright owned by ERIS Information Limited Partnership. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Executive Summary

Property Information:

Project Property:	*Port Credit W/WW* *Port Credit W/WW Mississauga ON L5G 3M8*
Project No:	

Order Information:

Order No:	*22072501112*
Date Requested:	*July 25, 2022*
Requested by:	*GM BluePlan Engineering Limited*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

City Directory Search	*CD - Subject Site plus 5 Adjacent Properties*
ERIS Xplorer	*ERIS Xplorer*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Plans*

DRAFT

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.10km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	10	10
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	15	68	83
CA	Certificates of Approval	Y	1	6	7
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	1	1
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	24	24
EASR	Environmental Activity and Sector Registry	Y	2	1	3
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	2	1	3
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	1	26	27
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	12	12
FSTH	Fuel Storage Tank - Historic	Y	0	2	2
GEN	Ontario Regulation 347 Waste Generators Summary	Y	8	40	48
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1

DRAFT

Database	Name	Searched	Project Property	Boundary to 0.10km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	1	2	3
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	4	4
PINC	Pipeline Incidents	Y	0	6	6
PRT	Private and Retail Fuel Storage Tanks	Y	0	5	5
PTTW	Permit to Take Water	Y	0	1	1
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	1	1
RST	Retail Fuel Storage Tanks	Y	0	1	1
SCT	Scott's Manufacturing Directory	Y	0	4	4
SPL	Ontario Spills	Y	4	13	17
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	17	48	65
	Total:		51	277	328

DRAFT

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		lot 14 con 1 ON ***Well ID:*** 4907922	NNE/0.0	0.00	71
2	WWIS		lot 14 con 1 ON ***Well ID:*** 4907920	NNE/0.0	0.00	73
3	BORE		ON	NW/0.0	0.00	76
4	WWIS		ON ***Well ID:*** 7161795	W/0.0	0.00	77
5	SPL		170 Lakeshore Rd E Mississauga ON	NE/0.0	0.00	78
5	GEN	LightPoint Properties Inc.	170 Lakeshore Road East Port Credit ON L5G 1G1	NE/0.0	0.00	79
5	EHS		170 Lakeshore Rd E Mississauga ON L5G1G1	NE/0.0	0.00	79
6	WWIS		150 LAKESHORE BLVD. EAST Mississauga ON ***Well ID:*** 7155591	W/0.0	0.00	79

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
7	WWIS		3 ELMWOOD AVE N Mississauga ON ***Well ID:*** 7290467	NE/0.0	0.00	85
7	WWIS		3 ELMWOOD AVE N Mississauga ON ***Well ID:*** 7290468	NE/0.0	0.00	88
8	INC		5 ELMWOOD AVENUE SOUTH, MISSISSAUGA ON	NE/0.0	0.00	91
9	GEN	Port Credit Properties c/o The Effort Trust Comp.	3 Elmwood Ave. North Mississauga ON L5G 3J8	NE/0.0	0.00	92
10	BORE		ON	W/0.0	0.00	92
11	WWIS		3 ELMWOOD AVE N Mississauga ON ***Well ID:*** 7290466	NE/0.0	0.15	93
12	BORE		ON	W/0.0	0.00	96
13	BORE		ON	W/0.0	0.00	98
14	BORE		ON	E/0.0	0.00	99
15	BORE		ON	W/0.0	0.00	100

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
16	WWIS		30 QUEEN ST E Mississauga ON ***Well ID:*** 7234471	W/0.0	-0.10	102
16	GEN	Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	W/0.0	-0.10	105
16	GEN	Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	W/0.0	-0.10	105
16	GEN	Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	W/0.0	-0.10	105
16	GEN	Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	W/0.0	-0.10	105
16	GEN	Metrolinx	30 Queen Street East Mississauga ON L5G 3B7	W/0.0	-0.10	106
16	GEN	Metrolinx Capital Projects Group	30 Queen St E Mississauga ON L5G 3B7	W/0.0	-0.10	106
17	BORE		ON	E/0.0	-0.99	106
18	BORE		ON	W/0.0	-1.15	108

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
19	WWIS		port credit go station Mississauga ON ***Well ID:*** 7355171	W/0.0	-0.28	109
20	WWIS		26 ANN ST. MISSISSAUGA ON ***Well ID:*** 7341844	W/0.0	-1.00	113
20	WWIS		26 ANN ST. MISSISSAUGA ON ***Well ID:*** 7341883	W/0.0	-1.00	116
21	BORE		ON	ESE/0.0	-2.90	120
22	WWIS		ON ***Well ID:*** 7330113	W/0.0	-0.65	121
23	SPL	The Corporation of the City of Mississauga	Elmwood Dr and Carlis Place Mississauga ON	ESE/0.0	-3.18	122
24	SPL	The Regional Municipality of Peel	Elmwood Ave and Carlis Place Mississauga ON	E/0.0	-3.18	123
25	BORE		ON	W/0.0	-1.00	123
26	BORE		ON	ENE/0.0	0.00	125
27	WWIS		PORT CREDIT GO STATION PORT CREDIT ON	W/0.0	-1.00	126

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
			Well ID: 7243496			
28	BORE		ON	W/0.0	-1.00	129
29	BORE		ON	W/0.0	-1.00	130
30	WWIS		ON	W/0.0	-1.00	132
			Well ID: 7378962			
31	ECA	Queenscorp (Mona) Inc.	1130 Mona Rd 1136 & 1138 Mona Road Mississauga ON M8Z 1L8	W/0.0	-0.96	133
32	BORE		ON	ENE/0.0	0.00	133
33	EASR	THE REGIONAL MUNICIPALITY OF PEEL	182 ROSEMERE RD MISSISSAUGA ON L5G 1S4	WSW/0.0	-1.81	134
33	ECA	The Regional Municipality of Peel	182 Rosemere Rd Mississauga ON L6T 4B9	WSW/0.0	-1.81	135
33	EASR	THE REGIONAL MUNICIPALITY OF PEEL	182 ROSEMERE RD MISSISSAUGA ON L5G 1S4	WSW/0.0	-1.81	135
34	SPL	PEEL, REGIONAL MUNICIPALITY OF	HIAWATHA RD. & CUMBERLAND, CUMBERLAND STREET PUMPING STATION CUMBERLAND STREET PUMPING STATION MISSISSAUGA CITY ON	ENE/0.0	0.00	13

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
35	CA	R.M. OF PEEL	HIAWATHA PKWY. & CUMBERLAND DR MISSISSAUGA CITY ON	ENE/0.0	0.00	13
36	WWIS		ROSEMERE ROAD Mississauga ON ***Well ID:*** 7287343	WSW/0.0	-1.43	136
37	WWIS		ROSEMERE ROAD Mississauga ON ***Well ID:*** 7287344	WSW/0.0	-0.91	139
38	WWIS		76 CUMBERLAND DR Mississauga ON ***Well ID:*** 7290465	ENE/0.0	-1.66	143
39	BORE		ON	WSW/0.0	-2.61	146

DRAFT

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
40	BORE		ON	W/0.9	-1.00	147
41	BORE		ON	ENE/1.0	0.00	148
42	EHS		n/a Mississauga ON	W/1.0	-1.00	149
43	BORE		ON	W/1.3	-1.00	150
44	EHS		91 Park St E Mississauga ON L5G4W1	W/1.3	0.00	151
45	BORE		ON	E/1.6	0.00	151
46	BORE		ON	W/1.8	0.00	153
47	WWIS		30 Queen St. East Mississauga ON ***Well ID:*** 7363633	W/1.8	0.00	154
48	WWIS		30 Queen St East Mississauga ON ***Well ID:*** 7363632	W/2.0	-1.05	157
49	BORE		ON	W/2.3	-1.02	161
50	BORE		ON	WSW/3.2	-1.88	162
51	BORE		ON	W/3.8	-0.62	163

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
52	EHS		24 Ann St Mississauga ON L5G 3G1	W/3.9	-1.00	165
53	WWIS		lot 14 con 1 ON ***Well ID:*** 4907921	NW/4.1	0.00	165
54	BORE		ON	WSW/4.1	-3.09	168
55	GEN	STEPHENSONS RENT ALL LTD.	160 LAKESHORE RD. E. MISSISSAUGA ON L5G 1G1	NNE/4.4	0.00	169
55	GEN	STEPHENSON'S RENT-ALL LTD.	160 LAKESHORE RD. EAST, MISSISSAUGA C/O 55 WESTMORE DR. REXDALE ON L5G 1G1	NNE/4.4	0.00	169
55	GEN	STEPHENSON'S RENT-ALL INC.	160 LAKESHORE ROAD EAST MISSISSAUGA ON L5G 1G1	NNE/4.4	0.00	170
55	GEN	STEPHENSON'S RENT-ALL LTD. 36-457	160 LAKESHORE RD. EAST, MISSISSAUGA C/O 55 WESTMORE DR. REXDALE ON L5G 1G1	NNE/4.4	0.00	170
55	GEN	STEPHENSON'S RENT-ALL INC.	160 LAKESHORE ROAD EAST MISSISSAUGA ON L5G 1G1	NNE/4.4	0.00	171
56	EHS		160 Lakeshore Rd E Mississauga ON L5G1G1	NNE/4.7	0.00	171
57	CA		High Street, Park Street East & Hurontario Street Mississauga ON	W/4.9	0.00	171
58	BORE		ON	W/6.3	-1.00	171
59	WWIS		15 HURNOTARIP STREET MISSISSAUGA ON ***Well ID:*** 7104773	W/6.7	0.00	172

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
60	BORE		ON	W/7.1	-0.17	174
61	WWIS		GO STATION PARKING LOT PORT CREDIT ON ***Well ID:*** 7307873	W/7.9	-1.00	176
62	BORE		ON	W/8.0	-1.00	179
63	BORE		ON	WSW/8.3	-1.69	180
64	BORE		ON	W/9.0	-0.27	181
65	EHS		91 Park St E Mississauga ON L5G4W1	W/9.1	0.00	183
66	WWIS		30 Queen St East Mississauga ON ***Well ID:*** 7363631	W/9.2	-0.23	183
67	EHS		1142 Mona Road Mississauga ON	W/9.3	0.20	187
68	SPL	OSHAWA FOODS	25 HURONTARIO STREET RETAIL STORE MISSISSAUGA CITY ON	W/9.4	0.00	187
69	WWIS		Carlis Place Mississauga ON ***Well ID:*** 7380746	E/10.3	-3.15	187
70	BORE		ON	ENE/10.4	0.00	190
71	GEN	2152856 Ontario Ltd.	181 Lakeshore Rd E Port Credit ON L5G 1G2	ENE/10.5	0.00	192
71	GEN	Focal Point Research Inc.	181 Lakeshore Rd. E. Mississauga ON L5G 1G2	ENE/10.5	0.00	192

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
72	WWIS		PORT CREDIT GO STATION PORT CREDIT ON ***Well ID:*** 7310439	W/11.0	-1.00	192
73	SPL	PETRO-CANADA	PETRO CANADA SERVICE STATION 200 LAKESHORE BLVD. (AT SOUTHDOWN RD.) SERVICE STATION MISSISSAUGA CITY ON	NE/11.6	1.00	196
73	GEN	Petro-Canada	200 Lakeshore Road West Mississauga ON L5H 1G6	NE/11.6	1.00	196
73	EHS		200 Lakeshore Rd East Mississauga ON L5G 1G3	NE/11.6	1.00	196
73	EHS		200 Lakeshore Road East Mississauga ON	NE/11.6	1.00	197
74	WWIS		ON ***Well ID:*** 7295291	NE/12.7	0.00	197
75	EHS		200 Lakeshore Rd E Mississauga ON L5G1G3	NE/12.7	0.78	198
76	WWIS		lot 14 con 1 ON ***Well ID:*** 4907923	NE/12.8	0.00	198
77	BORE		ON	W/12.8	0.00	201
78	HINC		35 OAKWOOD AVE SOUTH MISSISSAUGA ON	E/13.0	0.00	202
79	EHS		Port Credit Mississauga ON	W/13.5	-0.81	202
80	WWIS		PORT CREDIT GO STATION PORT CREDIT ON ***Well ID:*** 7321737	W/15.7	-1.00	202
81	SPL	Greenspoon Specialty Contracting Ltd.;	20 Rosewood Avenue construction site<UNOFFICIAL> Mississauga ON	WNW/16.0	0.00	206

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
81	INC		20 Rosewood Avenue, Mississauga ON	WNW/16.0	0.00	206
82	INC		23 HIAWATHA PARKWAY, MISSISSAUGA ON	ENE/16.5	0.00	207
83	EHS		Park St E and Hurontario St Mississauga ON	W/16.8	-1.00	208
84	WWIS		158 LAKESHORE RD E Mississauga ON ***Well ID:*** 7284531	N/16.8	0.00	208
85	WWIS		PORT CREDIT GO STATION PORT CREDIT ON ***Well ID:*** 7321813	W/17.9	-1.00	210
86	BORE		ON	ENE/18.5	0.00	214
87	BORE		ON	W/18.7	-1.00	215
88	WWIS		1155 VESTA DRIVE PORT CREDIT ON ***Well ID:*** 7306886	W/18.9	0.03	216
89	BORE		ON	WSW/20.8	-2.97	220
90	PRT	PIONEER PETROLEUMS ATTN LOLA LAURIE	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	W/22.4	0.00	221
90	PRT	PIONEER PETROLEUMS ATTN LOLA LAURIE	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	W/22.4	0.00	221
90	PRT	PIONEER PETROLEUMS ATTN LOLA LAURIE	150 LAKESHORE RD E MISSISSAUGA ON L5G1E9	W/22.4	0.00	221
90	PRT		150 LAKESHORE RD. E. PORT CREDIT ON	W/22.4	0.00	222

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
90	FSTH	PIONEER PETROLEUMS MANAGEMENT INC**	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	W/22.4	0.00	222
90	FSTH	PIONEER PETROLEUMS MANAGEMENT INC**	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	W/22.4	0.00	223
90	EHS		150 Lakeshore Rd E Mississauga ON L5G 1E9	W/22.4	0.00	223
91	BORE		ON	W/24.0	-0.18	223
92	BORE		ON	W/24.2	-0.09	225
93	WWIS		22 ANN ST. MISSISSAUGA ON ***Well ID:*** 7341861	W/24.5	-1.00	226
94	WWIS		78 PARK ST. E MISSISSAUGA ON ***Well ID:*** 7341823	W/24.7	-1.00	229
95	BORE		ON	W/25.5	-1.00	233
96	BORE		ON	WSW/25.6	-2.97	234
97	WWIS		170 LAKESHORE ROAD EAST Oakville ON ***Well ID:*** 7287213	ENE/26.3	0.00	235
98	WWIS		PORT CREDIT GO STATION ETOBICOKE ON ***Well ID:*** 7321758	W/29.3	0.00	239
99	GEN	Brenda Mcgarrell	31 Oakwood Ave S. Mississauga ON L5G 3L2	ENE/29.8	0.00	242
100	GEN	HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	NE/30.1	1.00	242

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
101	EHS		High St. E., Ann St. Mississauga ON L5G	W/30.5	0.00	242
102	BORE		ON	W/31.6	-1.00	243
103	BORE		ON	W/32.5	-1.21	244
104	BORE		ON	ENE/32.6	0.00	245
105	BORE		ON	W/32.9	-1.00	247
106	EHS		70 Park St E Mississauga ON L5G 1M5	W/34.3	-1.00	248
107	BORE		ON	W/35.3	-1.64	248
108	WWIS		158 LAKESHORE RD EAST Mississauga ON ***Well ID:*** 7284533	NNE/35.4	0.00	249
109	BORE		ON	W/35.4	-0.37	251
110	WWIS		ON ***Well ID:*** 7380344	W/35.4	-1.00	252
111	BORE		ON	W/36.8	-1.00	253
112	CA	R.M. OF PEEL	182 ROSEMERE RD. SEW. P.S. MISSISSAUGA CITY ON	W/37.9	-1.92	254
112	CA	R.M. OF PEEL	182 ROSEMERE RD. SEW P.S. MISSISSAUGA CITY ON	W/37.9	-1.92	254

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
112	CA	R.M. OF PEEL	182 ROSEMERE RD. SEWAGE P.S. MISSISSAUGA CITY ON	W/37.9	-1.92	254
112	CA	R.M. OF PEEL	182 ROSEMERE RD. SEW. P.S. MISSISSAUGA CITY ON	W/37.9	-1.92	255
113	WWIS		GO STATION PARKING LOT (SOUTH SIDE) PORT CREDIT ON ***Well ID:*** 7321811	W/38.4	0.00	255
114	WWIS		78 PARK ST. E MISSISSAUGA ON ***Well ID:*** 7341887	W/38.8	-1.00	258
115	WWIS		30 Queen St E ON ***Well ID:*** 7380055	W/39.7	0.00	262
116	WWIS		PORT CREDIT GO STATION PORT CREDIT ON ***Well ID:*** 7321812	W/39.9	0.00	265
117	GEN	Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	W/40.2	-1.00	269
117	PTTW	Salini Impregilo Civil Works Inc.	30 Queen Street East Mississauga, ON Canada ON	W/40.2	-1.00	269
117	GEN	Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	W/40.2	-1.00	270
117	EASR	Salini Impregilo Civil Works Inc.	30 Queen ST E Mississauga ON L5R 4G7	W/40.2	-1.00	270
117	GEN	Mobilinx	30 Queen Street East Mississauga ON L5G 4N6	W/40.2	-1.00	270
117	GEN	Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	W/40.2	-1.00	270

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
118	EHS		90 High St E Mississauga ON L5G1K4	W/40.2	0.00	271
119	WWIS		HURONTARIO/ GO TRANSIT TRACKS ETOBICOKE ON ***Well ID:*** 7321771	W/40.7	0.00	271
120	WWIS		30 Queen St E ON ***Well ID:*** 7380056	W/41.2	0.00	274
121	WWIS		158 LAKESHORE RD E Mississauga ON ***Well ID:*** 7284535	ENE/41.4	0.00	277
122	PRT	BEAVER FUELS MANAGEMENT LIMITED ATTENTION: MIRIAM	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	ENE/41.5	0.00	280
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	ENE/41.5	0.00	280
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	ENE/41.5	0.00	280
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	ENE/41.5	0.00	281
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	ENE/41.5	0.00	282
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	ENE/41.5	0.00	282
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	ENE/41.5	0.00	283
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	ENE/41.5	0.00	283

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	ENE/41.5	0.00	284
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	ENE/41.5	0.00	285
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	ENE/41.5	0.00	285
122	DTNK	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	ENE/41.5	0.00	286
123	PINC		90 High Street East, Mississauga ON	W/41.5	0.00	287
124	SCT	Richard's Fine Chocolates Inc.	25 Helene St N Mississauga ON L5G 3B6	W/43.9	-1.00	287
125	AST		ON	SE/44.1	-2.59	287
126	WWIS		30 Queen St East Mississauga ON ***Well ID:*** 7363630	W/44.1	0.00	288
127	WWIS		158 LAKESHORE RD E Mississauga ON ***Well ID:*** 7282790	E/45.6	0.00	290
128	WWIS		ON ***Well ID:*** 7282791	E/45.9	0.00	293
129	BORE		ON	NW/46.4	0.00	295
130	BORE		ON	ENE/46.4	-0.49	297
130	BORE		ON	ENE/46.4	-0.49	298

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
131	EHS		158 Lakeshore Rd E Mississauga ON L5G1E9	E/46.5	0.00	300
132	BORE		ON	NNE/46.7	1.00	300
133	SPL	PIONEER PETROLEUMS LTD.	PIONEER GAS STATION AT 150 LAKESHORE SERVICE STATION MISSISSAUGA CITY ON	WSW/46.9	-0.50	302
134	BORE		ON	W/47.6	0.00	302
135	WWIS		ON ***Well ID:*** 7378959	WNW/48.2	0.00	303
136	WWIS		158 LAKESHJORE RD E Mississauga ON ***Well ID:*** 7284534	E/48.3	0.00	304
137	AST		ON	SE/48.3	-2.72	307
138	WWIS		158 LAKESHORE RD E Mississauga ON ***Well ID:*** 7282792	SE/48.5	0.00	307
139	SPL	PIONEER PETROLEUMS LTD.	150 LAKESHORE EAST SERVICE STATION MISSISSAUGA CITY ON L5G 1E9	WSW/48.6	-0.03	310
139	RST	PIONEER PETROLEUMS	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	WSW/48.6	-0.03	310
139	SPL	PIONEER PETROLEUMS LTD.	150 LAKESHORE RD E SERVICE STATION MISSISSAUGA CITY ON L5G 1E9	WSW/48.6	-0.03	311
139	DTNK	PIONEER ENERGY MANAGEMENT INC.	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	WSW/48.6	-0.03	311

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
139	GEN	Pioneer Energy LP	150 Lakeshore Road East Mississauga ON L5G 1E9	WSW/48.6	-0.03	312
139	FST	PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	312
139	FST	PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	312
139	GEN	Pioneer Energy LP	150 Lakeshore Road East Mississauga ON L5G 1E9	WSW/48.6	-0.03	313
139	DTNK	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	313
139	DTNK	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	314
139	DTNK	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	314
139	DTNK	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	315
139	DTNK	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	316
139	DTNK	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	316
139	DTNK	PARKLAND FUEL CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	317
139	DTNK	PARKLAND FUEL CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	317

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
139	DTNK	PARKLAND FUEL CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	318
139	DTNK	PARKLAND FUEL CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	319
139	FST	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	319
139	FST	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	320
139	DTNK		150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	WSW/48.6	-0.03	320
139	FST	PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	321
139	FST	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	321
139	FST	PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	322
139	FST	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	322
139	FST	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	323
139	FST	PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	323
139	FST	PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	324

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
139	FST	PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	WSW/48.6	-0.03	325
140	BORE		ON	W/48.8	0.00	325
141	BORE		ON	W/49.0	-0.92	327
142	BORE		ON	ENE/51.3	-5.00	328
142	BORE		ON	ENE/51.3	-5.00	329
143	EHS		84 & 90 High Street East Mississauga ON L5G 1K4	W/52.0	0.00	330
144	AST		ON	SE/52.2	-2.64	330
145	WWIS		158 LAKESHORE RD E Mississauga ON ***Well ID:*** 7284532	SSE/53.9	0.00	331
146	WWIS		PORT CREDIT GO STATION PORT CREDIT ON ***Well ID:*** 7321814	W/56.2	-1.00	333
147	SCT	Autasco Group	177 Lakeshore Rd E Mississauga ON L5G 4T9	E/56.3	0.00	336
148	BORE		ON	W/56.3	0.00	337
149	GEN	Parkland Fuel Corporation	152 Lakeshore Road East Mississauga ON L5G 1E9	S/56.3	0.00	338
150	BORE		ON	NNE/56.7	1.00	338

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
151	PES	HIAWATHA FOREST PRODUCTS & SERVICES	14 HIAWATHA PARKWAY MISSISSAUGA ON L5G 3R8	ENE/57.3	0.12	340
151	PES	HIAWATHA TREE & LAWN SERVICE	14 HIAWATHA PKY MISSISSAUGA ON L5G 3R8	ENE/57.3	0.12	340
151	PES	HIAWATHA TREE & LAWN SERVICE	14 HIAWATHA PKY MISSISSAUGA ON L5G3R8	ENE/57.3	0.12	341
151	PES	HIAWATHA TREE & LAWN SERVICE	14 HIAWATHA PKY MISSISSAUGA ON L5G3R8	ENE/57.3	0.12	341
152	RSC	F.S. Port Credit Development Limited	15 HURONTARIO ST, MISSISSAUGA, ON, L5G 3G8 ON	WSW/57.4	0.00	342
153	AST		ON	SE/57.5	-2.16	342
154	EHS		5 Woodlawn Avenue Mississauga ON Mississauga ON L5G 3K4	NE/58.5	1.00	342
155	BORE		ON	WNW/58.5	0.00	343
156	EHS		187 A Lakeshore Rd E Mississauga ON L5G1G2	ENE/59.0	0.88	344
157	WWIS		1175 Hurontario St ON ***Well ID:*** 7371903	WNW/59.3	0.00	344
158	GEN	Starlight Apartments Ltd.	212 Lakeshore Rd E Mississauga ON	NE/59.6	1.00	347
159	AST		ON	SE/59.9	-3.84	347
160	WWIS		152 LAKESHORE RD E ON ***Well ID:*** 7301773	SSE/61.5	0.00	348

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
161	CA	F.S. Port Credit Development Limited	1 Hurontario St Mississauga ON L5G 0A3	WSW/62.1	0.00	350
161	PINC		1 Hurontario Street, Mississauga ON	WSW/62.1	0.00	351
161	ECA	F.S. Port Credit Development Limited	1 Hurontario St Mississauga ON L5G 1E8	WSW/62.1	0.00	351
161	GEN	Dolce Vita Medical Spa & Salon	1 Hurontario Street Unit 1 Mississauga ON L5G0A3	WSW/62.1	0.00	351
161	GEN	Dolce Vita Medical Spa & Salon	1 Hurontario Street Unit 1 Mississauga ON L5G0A3	WSW/62.1	0.00	352
161	GEN	Thermo Cool Mechanical	1 Hurontario Street Mississauga ON L5G 0A3	WSW/62.1	0.00	352
161	GEN	Thermo Cool Mechanical	1 Hurontario Street Mississauga ON L5G 0A3	WSW/62.1	0.00	352
161	GEN	Dolce Vita Medical Spa & Salon	1 Hurontario Street Unit 1 Mississauga ON L5G0A3	WSW/62.1	0.00	353
162	EHS		24 & 28 Elmwood Avenue North And 27 Rosewood Avenue Mississauga ON	NNW/62.5	0.75	353
163	WWIS		1175 Hurontario St ON ***Well ID:*** 7371901	WNW/62.9	0.00	353
164	BORE		ON	WNW/63.5	0.00	356
165	WWIS		30 QUEEN ST E Mississauga ON ***Well ID:*** 7290487	WNW/66.4	0.00	357
166	BORE		ON	WNW/68.4	0.00	361

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
167	BORE		ON	ENE/68.5	0.00	362
168	WWIS		GO STATION PARKING LOT PORT CREDIT ON ***Well ID:*** 7307874	W/69.0	0.00	363
169	BORE		ON	E/69.1	-1.12	366
170	BORE		ON	ENE/69.8	0.00	368
171	BORE		ON	WNW/69.9	0.00	370
172	WWIS		30 queen st e. Mississauga ON ***Well ID:*** 7355170	W/70.1	0.00	371
173	WWIS		ON ***Well ID:*** 7162774	SSW/70.4	0.00	374
174	GEN	HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON	ENE/70.5	1.00	375
174	GEN	HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON	ENE/70.5	1.00	375
174	GEN	HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	ENE/70.5	1.00	376
174	GEN	HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	ENE/70.5	1.00	376
174	GEN	HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	ENE/70.5	1.00	376
174	GEN	HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	ENE/70.5	1.00	377

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
174	GEN	HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	ENE/70.5	1.00	377
174	GEN	HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	ENE/70.5	1.00	377
175	BORE		ON	W/71.1	-1.00	377
176	WWIS		1 HURONTARIO STREET Mississauga ON **Well ID:** 7298078	SW/71.1	-0.78	379
177	EHS		28 Helene St N Mississauga ON L5G 3B7	W/71.7	-1.00	381
178	AST		ON	ESE/72.3	0.00	382
179	PINC		136 Waterside, Peel ON	E/74.0	0.00	382
180	EHS		125/129/139 Lakeshore Road East & 65/80 Port Street Mississauga ON	SW/74.2	-0.79	382
181	SPL	PRIVATE RESIDENCE	1171 STAVE BANK RD. FURNACE OIL TANK MISSISSAUGA CITY ON	WSW/75.0	1.61	383
182	BORE		ON	W/76.2	-1.00	383
183	EHS		206-212 Lakeshore Road East Mississauga ON L5G 1G4	NE/78.2	1.00	384
184	PINC	ENBRIDGE GAS INC	59 CUMBERLAND DR,,MISSISSAUGA, ON,L5G 3N1,CA ON	E/78.4	0.31	385
185	SCT	Access Control Sales Ltd.	161 Lakeshore Rd E Mississauga ON L5G 4T9	SE/79.9	0.00	385

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
186	BORE		ON	ENE/80.7	-0.87	386
187	BORE		ON	WSW/80.7	0.00	387
188	BORE		ON	WNW/80.7	0.00	389
189	GEN	IMH Pool VI-A LP	28 Helene St North Port Credit ON L5G 3B7	W/81.9	-1.00	390
190	BORE		ON	ENE/82.5	-0.79	390
191	WWIS		72 QUEEN STREET PORT CREDIT ON ***Well ID:*** 7306887	WNW/82.6	0.00	392
192	BORE		ON	ENE/83.0	1.00	395
193	SPL	PRIVATE RESIDENCE	56 OAKWOOD AVENUE,PORT CREDIT, HWY 10 AND LAKESHORE ROAD. FURNACE OIL TANK MISSISSAUGA CITY ON	E/83.0	-3.59	397
194	BORE		ON	WSW/84.3	0.00	397
195	AST		ON	ESE/85.2	0.00	398
196	BORE		ON	W/86.0	0.00	398
197	BORE		ON	WSW/86.0	-1.00	399

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
198	SPL		22 Woodlawn Avenue Mississauga ON	NNE/86.1	1.00	401
198	PINC	PIPELINE HIT - 1/2"	22 WOODLAWN AVENUE,, MISSISSAUGA,ON,L5G 3K5,CA ON	NNE/86.1	1.00	401
199	EHS		206-212 Lakeshore Road East and 8 Oakwood Avenue North, Mississauga ON L5G 1G4	NE/87.8	1.00	402
200	WWIS		ON ***Well ID:*** 7378960	W/87.8	0.00	402
201	EHS		HuLRT WZ1 WWIS Mississauga ON	WNW/88.2	0.00	403
202	BORE		ON	WSW/88.9	-1.00	403
203	SPL	Enbridge Gas Distribution Inc.	35 Cumberland Dr Mississauga ON	E/89.6	0.00	404
203	PINC	PIPELINE HIT - 1/2"	35 CUMBERLAND DR,,MISSISSAUGA, ON,L5G 3M9,CA ON	E/89.6	0.00	405
204	GEN	MISSISSAUGA HYDRO (PCB)	20 FOREST AVE. C/O 3240 MAVIS ROAD MISSISSAUGA ON L5G 1K7	NW/89.8	0.87	405
204	GEN	MISSISSAUGA HYDRO (PCB) 00-000	20 FOREST AVE. C/O 3240 MAVIS ROAD MISSISSAUGA ON L5G 1K7	NW/89.8	0.87	406
205	BORE		ON	WSW/89.9	0.00	406
206	BORE		ON	NNW/91.4	1.00	407
207	WWIS		150 LAKESHORE ROAD EAST WELL LOCATED ON ROAD Mississauga ON	S/92.3	-0.82	409

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7298174			
208	AST		ON	SSE/92.4	-1.99	412
209	BORE		ON	WSW/92.8	0.00	412
210	EHS		206-212 Lakeshore Road East 8 Oakwood Avenue Mississauga ON	NE/93.0	1.09	413
211	BORE		ON	E/93.4	0.80	414
212	BORE		ON	ENE/93.4	0.00	415
213	BORE		ON	ENE/93.5	1.00	416
214	WWIS		ON ***Well ID:*** 7378961	W/94.0	0.00	418
215	BORE		ON	W/94.6	0.00	418
216	BORE		ON	E/95.1	-0.49	419
217	BORE		ON	WSW/95.3	0.00	421
218	SPL	PETRO-CANADA	39 STAVEVANK RD. MISSISSAUGA REFINERY/LUBRICANTS CENTRE 385 SOUTHDOWN ROAD MISSISSAUGA CITY ON	WSW/96.3	-1.06	422
219	AST		ON	ESE/98.1	0.00	423

DRAFT

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
220	AST		ON	ESE/98.8	0.00	423
221	SCT	Nordex Explosives Ltd.	145 Lakeshore Rd E Mississauga ON L5G 4T9	S/98.8	-0.82	423
222	CFOT	BELL CANADA	80 HIGH ST E MISSISSAUGA L5G 1K2 ON CA ON	WSW/98.9	0.00	424
222	GEN	Bell	80 High St Mississauga ON L5G 1K2	WSW/98.9	0.00	424
222	GEN	Bell	80 High St Port Credit ON L5G 1K4	WSW/98.9	0.00	424
222	GEN	Bell	80 High St Mississauga ON L5G 1K2	WSW/98.9	0.00	425
222	GEN	Bell	80 High St Port Credit ON L5G 1K4	WSW/98.9	0.00	425
222	SPL		80 High Street East Mississauga ON	WSW/98.9	0.00	426
222	SPL	Bell Canada	80 High Street Mississauga ON	WSW/98.9	0.00	426
222	GEN	Bell	80 High St Port Credit ON L5G 1K4	WSW/98.9	0.00	427
222	DTNK	BELL CANADA	80 HIGH ST E MISSISSAUGA L5G 1K2 ON CA ON	WSW/98.9	0.00	427
222	GEN	Bell	80 High St Port Credit ON L5G 1K4	WSW/98.9	0.00	428
223	WWIS		30 QUEEN ST E Mississauga ON	WNW/99.3	0.00	428

DRAFT

Well ID: 7290480

DRAFT

Executive Summary: Summary By Data Source

AST - Aboveground Storage Tanks

A search of the AST database, dated May 31, 2014 has found that there are 10 AST site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	44.1	125
	ON	48.3	137
	ON	52.2	144
	ON	57.5	153
	ON	59.9	159
	ON	72.3	178
	ON	85.2	195
	ON	92.4	208
	ON	98.1	219

DRAFT

Site	Address	Distance (m)	Map Key
	ON	98.8	220

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 83 BORE site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	0.0	3
	ON	0.0	10
	ON	0.0	12
	ON	0.0	13
	ON	0.0	14
	ON	0.0	15
	ON	0.0	17
	ON	0.0	18
	ON	0.0	21

DRAFT

Site	Address	Distance (m)	Map Key
	ON	0.0	25
	ON	0.0	26
	ON	0.0	28
	ON	0.0	29
	ON	0.0	32
	ON	0.0	39
	ON	0.9	40
	ON	1.0	41
	ON	1.3	43
	ON	1.6	45
	ON	1.8	46

DRAFT

Site	Address	Distance (m)	Map Key
	ON	2.3	49
	ON	3.2	50
	ON	3.8	51
	ON	4.1	54
	ON	6.3	58
	ON	7.1	60
	ON	8.0	62
	ON	8.3	63
	ON	9.0	64
	ON	10.4	70
	ON	12.8	77
	ON	18.5	86

DRAFT

Site	Address	Distance (m)	Map Key
	ON	18.7	87
	ON	20.8	89
	ON	24.0	91
	ON	24.2	92
	ON	25.5	95
	ON	25.6	96
	ON	31.6	102
	ON	32.5	103
	ON	32.6	104
	ON	32.9	105
	ON	35.3	107

DRAFT

Site	Address	Distance (m)	Map Key
	ON	35.4	109
	ON	36.8	111
	ON	46.4	129
	ON	46.4	130
	ON	46.4	130
	ON	46.7	132
	ON	47.6	134
	ON	48.8	140
	ON	49.0	141
	ON	51.3	142
	ON	51.3	142
	ON	56.3	148

DRAFT

Site	Address	Distance (m)	Map Key
	ON	56.7	150
	ON	58.5	155
	ON	63.5	164
	ON	68.4	166
	ON	68.5	167
	ON	69.1	169
	ON	69.8	170
	ON	69.9	171
	ON	71.1	175
	ON	76.2	182
	ON	80.7	186

DRAFT

Site	Address	Distance (m)	Map Key
	ON	80.7	187
	ON	80.7	188
	ON	82.5	190
	ON	83.0	192
	ON	84.3	194
	ON	86.0	196
	ON	86.0	197
	ON	88.9	202
	ON	89.9	205
	ON	91.4	206
	ON	92.8	209
	ON	93.4	211

DRAFT

Site	Address	Distance (m)	Map Key
	ON	93.4	212
	ON	93.5	213
	ON	94.6	215
	ON	95.1	216
	ON	95.3	217

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 7 CA site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
R.M. OF PEEL	HIAWATHA PKWY. & CUMBERLAND DR MISSISSAUGA CITY ON	0.0	35
	High Street, Park Street East & Hurontario Street Mississauga ON	4.9	57
R.M. OF PEEL	182 ROSEMERE RD. SEW P.S. MISSISSAUGA CITY ON	37.9	112
R.M. OF PEEL	182 ROSEMERE RD. SEW. P.S. MISSISSAUGA CITY ON	37.9	112

DRAFT

Site	Address	Distance (m)	Map Key
R.M. OF PEEL	182 ROSEMERE RD. SEWAGE P.S. MISSISSAUGA CITY ON	37.9	112
R.M. OF PEEL	182 ROSEMERE RD. SEW. P.S. MISSISSAUGA CITY ON	37.9	112
F.S. Port Credit Development Limited	1 Hurontario St Mississauga ON L5G 0A3	62.1	161

CFOT - Commercial Fuel Oil Tanks

A search of the CFOT database, dated Feb 28, 2022 has found that there are 1 CFOT site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
BELL CANADA	80 HIGH ST E MISSISSAUGA L5G 1K2 ON CA ON	98.9	222

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated Feb 28, 2022 has found that there are 24 DTNK site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	41.5	122
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	41.5	122
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	41.5	122
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	41.5	122

DRAFT

Site	Address	Distance (m)	Map Key
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	41.5	122
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	41.5	122
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	41.5	122
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON	41.5	122
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	41.5	122
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	41.5	122
BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	41.5	122
PIONEER ENERGY MANAGEMENT INC.	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	48.6	139
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139

DRAFT

Site	Address	Distance (m)	Map Key
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PARKLAND FUEL CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PARKLAND FUEL CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PARKLAND FUEL CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PARKLAND FUEL CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	48.6	139
BELL CANADA	80 HIGH ST E MISSISSAUGA L5G 1K2 ON CA ON	98.9	222

DRAFT

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011- Jun 30, 2022 has found that there are 3 EASR site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
THE REGIONAL MUNICIPALITY OF PEEL	182 ROSEMERE RD MISSISSAUGA ON L5G 1S4	0.0	33

Site	Address	Distance (m)	Map Key
THE REGIONAL MUNICIPALITY OF PEEL	182 ROSEMERE RD MISSISSAUGA ON L5G 1S4	0.0	33
Salini Impregilo Civil Works Inc.	30 Queen ST E Mississauga ON L5R 4G7	40.2	117

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Jun 30, 2022 has found that there are 3 ECA site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Queenscorp (Mona) Inc.	1130 Mona Rd 1136 & 1138 Mona Road Mississauga ON M8Z 1L8	0.0	31
The Regional Municipality of Peel	182 Rosemere Rd Mississauga ON L6T 4B9	0.0	33
F.S. Port Credit Development Limited	1 Hurontario St Mississauga ON L5G 1E8	62.1	161

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 31, 2022 has found that there are 27 EHS site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	170 Lakeshore Rd E Mississauga ON L5G1G1	0.0	5
	n/a Mississauga ON	1.0	42
	91 Park St E Mississauga ON L5G4W1	1.3	44

DRAFT

Site	Address	Distance (m)	Map Key
	24 Ann St Mississauga ON L5G 3G1	3.9	52
	160 Lakeshore Rd E Mississauga ON L5G1G1	4.7	56
	91 Park St E Mississauga ON L5G4W1	9.1	65
	1142 Mona Road Mississauga ON	9.3	67
	200 Lakeshore Rd East Mississauga ON L5G 1G3	11.6	73
	200 Lakeshore Road East Mississauga ON	11.6	73
	200 Lakeshore Rd E Mississauga ON L5G1G3	12.7	75
	Port Credit Mississauga ON	13.5	79
	Park St E and Hurontario St Mississauga ON	16.8	83
	150 Lakeshore Rd E Mississauga ON L5G 1E9	22.4	90
	High St. E., Ann St. Mississauga ON L5G	30.5	101
	70 Park St E Mississauga ON L5G 1M5	34.3	106

DRAFT

Site	Address	Distance (m)	Map Key
	90 High St E Mississauga ON L5G1K4	40.2	118
	158 Lakeshore Rd E Mississauga ON L5G1E9	46.5	131
	84 & 90 High Street East Mississauga ON L5G 1K4	52.0	143
	5 Woodlawn Avenue Mississauga ON Mississauga ON L5G 3K4	58.5	154
	187 A Lakeshore Rd E Mississauga ON L5G1G2	59.0	156
	24 & 28 Elmwood Avenue North And 27 Rosewood Avenue Mississauga ON	62.5	162
	28 Helene St N Mississauga ON L5G 3B7	71.7	177
	125/129/139 Lakeshore Road East & 65/80 Port Street Mississauga ON	74.2	180
	206-212 Lakeshore Road East Mississauga ON L5G 1G4	78.2	183
	206-212 Lakeshore Road East and 8 Oakwood Avenue North, Mississauga ON L5G 1G4	87.8	199
	HuLRT WZ1 WWIS Mississauga ON	88.2	201

DRAFT

Site	Address	Distance (m)	Map Key
	206-212 Lakeshore Road East 8 Oakwood Avenue Mississauga ON	93.0	210

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2022 has found that there are 12 FST site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PARKLAND CORPORATION	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139

DRAFT

Site	Address	Distance (m)	Map Key
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139
PIONEER ENERGY MANAGEMENT INC	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	48.6	139

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PIONEER PETROLEUMS MANAGEMENT INC**	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	22.4	90
PIONEER PETROLEUMS MANAGEMENT INC**	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	22.4	90

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Feb 28, 2022 has found that there are 48 GEN site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
LightPoint Properties Inc.	170 Lakeshore Road East Port Credit ON L5G 1G1	0.0	5
Port Credit Properties c/o The Effort Trust Comp.	3 Elmwood Ave. North Mississauga ON L5G 3J8	0.0	9
Metrolinx Capital Projects Group	30 Queen St E Mississauga ON L5G 3B7	0.0	16

DRAFT

Site	Address	Distance (m)	Map Key
Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	0.0	16
Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	0.0	16
Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	0.0	16
Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	0.0	16
Metrolinx	30 Queen Street East Mississauga ON L5G 3B7	0.0	16
STEPHENSONS RENT ALL LTD.	160 LAKESHORE RD. E. MISSISSAUGA ON L5G 1G1	4.4	55
STEPHENSON'S RENT-ALL LTD.	160 LAKESHORE RD. EAST, MISSISSAUGA C/O 55 WESTMORE DR. REXDALE ON L5G 1G1	4.4	55
STEPHENSON'S RENT-ALL INC.	160 LAKESHORE ROAD EAST MISSISSAUGA ON L5G 1G1	4.4	55
STEPHENSON'S RENT-ALL LTD. 36-457	160 LAKESHORE RD. EAST, MISSISSAUGA C/O 55 WESTMORE DR. REXDALE ON L5G 1G1	4.4	55
STEPHENSON'S RENT-ALL INC.	160 LAKESHORE ROAD EAST MISSISSAUGA ON L5G 1G1	4.4	55
2152856 Ontario Ltd.	181 Lakeshore Rd E Port Credit ON L5G 1G2	10.5	71

DRAFT

Site	Address	Distance (m)	Map Key
Focal Point Research Inc.	181 Lakeshore Rd. E. Mississauga ON L5G 1G2	10.5	71
Petro-Canada	200 Lakeshore Road West Mississauga ON L5H 1G6	11.6	73
Brenda Mcgarrell	31 Oakwood Ave S. Mississauga ON L5G 3L2	29.8	99
HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	30.1	100
Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	40.2	117
Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	40.2	117
Mobilinx	30 Queen Street East Mississauga ON L5G 4N6	40.2	117
Metrolinx	30 Queen Street East Mississauga ON L5H 1L4	40.2	117
Pioneer Energy LP	150 Lakeshore Road East Mississauga ON L5G 1E9	48.6	139
Pioneer Energy LP	150 Lakeshore Road East Mississauga ON L5G 1E9	48.6	139
Parkland Fuel Corporation	152 Lakeshore Road East Mississauga ON L5G 1E9	56.3	149
Starlight Apartments Ltd.	212 Lakeshore Rd E Mississauga ON	59.6	158

DRAFT

Site	Address	Distance (m)	Map Key
Dolce Vita Medical Spa & Salon	1 Hurontario Street Unit 1 Mississauga ON L5G0A3	62.1	161
Dolce Vita Medical Spa & Salon	1 Hurontario Street Unit 1 Mississauga ON L5G0A3	62.1	161
Thermo Cool Mechanical	1 Hurontario Street Mississauga ON L5G 0A3	62.1	161
Thermo Cool Mechanical	1 Hurontario Street Mississauga ON L5G 0A3	62.1	161
Dolce Vita Medical Spa & Salon	1 Hurontario Street Unit 1 Mississauga ON L5G0A3	62.1	161
HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	70.5	174
HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	70.5	174
HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	70.5	174
HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	70.5	174
HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	70.5	174
HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON	70.5	174

DRAFT

Site	Address	Distance (m)	Map Key
HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON	70.5	174
HARBINDER MANN VETERINARY CORPORATION	205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2	70.5	174
IMH Pool VI-A LP	28 Helene St North Port Credit ON L5G 3B7	81.9	189
MISSISSAUGA HYDRO (PCB)	20 FOREST AVE. C/O 3240 MAVIS ROAD MISSISSAUGA ON L5G 1K7	89.8	204
MISSISSAUGA HYDRO (PCB) 00-000	20 FOREST AVE. C/O 3240 MAVIS ROAD MISSISSAUGA ON L5G 1K7	89.8	204
Bell	80 High St Mississauga ON L5G 1K2	98.9	222
Bell	80 High St Port Credit ON L5G 1K4	98.9	222
Bell	80 High St Mississauga ON L5G 1K2	98.9	222
Bell	80 High St Port Credit ON L5G 1K4	98.9	222
Bell	80 High St Port Credit ON L5G 1K4	98.9	222
Bell	80 High St Port Credit ON L5G 1K4	98.9	222

DRAFT

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	35 OAKWOOD AVE SOUTH MISSISSAUGA ON	13.0	78

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated Feb 28, 2022 has found that there are 3 INC site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	5 ELMWOOD AVENUE SOUTH, MISSISSAUGA ON	0.0	8
	20 Rosewood Avenue, Mississauga ON	16.0	81
	23 HIAWATHA PARKWAY, MISSISSAUGA ON	16.5	82

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Jun 30, 2022 has found that there are 4 PES site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
HIAWATHA TREE & LAWN SERVICE	14 HIAWATHA PKY MISSISSAUGA ON L5G3R8	57.3	151
HIAWATHA TREE & LAWN SERVICE	14 HIAWATHA PKY MISSISSAUGA ON L5G3R8	57.3	151
HIAWATHA FOREST PRODUCTS & SERVICES	14 HIAWATHA PARKWAY MISSISSAUGA ON L5G 3R8	57.3	151

DRAFT

Site	Address	Distance (m)	Map Key
HIAWATHA TREE & LAWN SERVICE	14 HIAWATHA PKY MISSISSAUGA ON L5G 3R8	57.3	151

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 6 PINC site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	90 High Street East, Mississauga ON	41.5	123
	1 Hurontario Street, Mississauga ON	62.1	161
	136 Waterside, Peel ON	74.0	179
ENBRIDGE GAS INC	59 CUMBERLAND DR,,MISSISSAUGA,ON, L5G 3N1,CA ON	78.4	184
PIPELINE HIT - 1/2"	22 WOODLAWN AVENUE,,MISSISSAUGA, ON,L5G 3K5,CA ON	86.1	198
PIPELINE HIT - 1/2"	35 CUMBERLAND DR,,MISSISSAUGA,ON, L5G 3M9,CA ON	89.6	203

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 5 PRT site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	150 LAKESHORE RD. E. PORT CREDIT ON	22.4	90

DRAFT

Site	Address	Distance (m)	Map Key
PIONEER PETROLEUMS ATTN LOLA LAURIE	150 LAKESHORE RD E MISSISSAUGA ON L5G1E9	22.4	90
PIONEER PETROLEUMS ATTN LOLA LAURIE	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	22.4	90
PIONEER PETROLEUMS ATTN LOLA LAURIE	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	22.4	90
BEAVER FUELS MANAGEMENT LIMITED ATTENTION: MIRIAM	158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	41.5	122

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994 - Jun 30, 2022 has found that there are 1 PTTW site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Salini Impregilo Civil Works Inc.	30 Queen Street East Mississauga, ON Canada ON	40.2	117

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Jun 2022 has found that there are 1 RSC site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
F.S. Port Credit Development Limited	15 HURONTARIO ST, MISSISSAUGA, ON, L5G 3G8 ON	57.4	152

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-May 31, 2022 has found that there are 1 RST site(s) within approximately 0.10 kilometers of the project property.

DRAFT

Site	Address	Distance (m)	Map Key
PIONEER PETROLEUMS	150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	48.6	139

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 4 SCT site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Richard's Fine Chocolates Inc.	25 Helene St N Mississauga ON L5G 3B6	43.9	124
Autasco Group	177 Lakeshore Rd E Mississauga ON L5G 4T9	56.3	147
Access Control Sales Ltd.	161 Lakeshore Rd E Mississauga ON L5G 4T9	79.9	185
Nordex Explosives Ltd.	145 Lakeshore Rd E Mississauga ON L5G 4T9	98.8	221

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020; Dec 2020-Mar 2021 has found that there are 17 SPL site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	170 Lakeshore Rd E Mississauga ON	0.0	5
The Corporation of the City of Mississauga	Elmwood Dr and Carlis Place Mississauga ON	0.0	23
The Regional Municipality of Peel	Elmwood Ave and Carlis Place Mississauga ON	0.0	24

DRAFT

Site	Address	Distance (m)	Map Key
PEEL, REGIONAL MUNICIPALITY OF	HIAWATHA RD. & CUMBERLAND, CUMBERLAND STREET PUMPING STATION CUMBERLAND STREET PUMPING STATION MISSISSAUGA CITY ON	0.0	34
OSHAWA FOODS	25 HURONTARIO STREET RETAIL STORE MISSISSAUGA CITY ON	9.4	68
PETRO-CANADA	PETRO CANADA SERVICE STATION 200 LAKESHORE BLVD. (AT SOUTHDOWN RD.) SERVICE STATION MISSISSAUGA CITY ON	11.6	73
Greenspoon Specialty Contracting Ltd.;	20 Rosewood Avenue construction site<UNOFFICIAL> Mississauga ON	16.0	81
PIONEER PETROLEUMS LTD.	PIONEER GAS STATION AT 150 LAKESHORE SERVICE STATION MISSISSAUGA CITY ON	46.9	133
PIONEER PETROLEUMS LTD.	150 LAKESHORE EAST SERVICE STATION MISSISSAUGA CITY ON L5G 1E9	48.6	139
PIONEER PETROLEUMS LTD.	150 LAKESHORE RD E SERVICE STATION MISSISSAUGA CITY ON L5G 1E9	48.6	139
PRIVATE RESIDENCE	1171 STAVE BANK RD. FURNACE OIL TANK MISSISSAUGA CITY ON	75.0	181
PRIVATE RESIDENCE	56 OAKWOOD AVENUE,PORT CREDIT, HWY 10 AND LAKESHORE ROAD. FURNACE OIL TANK MISSISSAUGA CITY ON	83.0	193
	22 Woodlawn Avenue Mississauga ON	86.1	198
Enbridge Gas Distribution Inc.	35 Cumberland Dr Mississauga ON	89.6	203

DRAFT

Site	Address	Distance (m)	Map Key
PETRO-CANADA	39 STAVEVANK RD. MISSISSAUGA REFINERY/LUBRICANTS CENTRE 385 SOUTHDOWN ROAD MISSISSAUGA CITY ON	96.3	218
Bell Canada	80 High Street Mississauga ON	98.9	222
	80 High Street East Mississauga ON	98.9	222

WWIS - Water Well Information System

A search of the WWIS database, dated Jan 31, 2022 has found that there are 65 WWIS site(s) within approximately 0.10 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 14 con 1 ON ***Well ID:*** 4907922	0.0	1
	lot 14 con 1 ON ***Well ID:*** 4907920	0.0	2
	ON ***Well ID:*** 7161795	0.0	4
	150 LAKESHORE BLVD. EAST Mississauga ON ***Well ID:*** 7155591	0.0	6
	3 ELMWOOD AVE N Mississauga ON ***Well ID:*** 7290467	0.0	7
	3 ELMWOOD AVE N Mississauga ON ***Well ID:*** 7290468	0.0	7
	3 ELMWOOD AVE N Mississauga ON	0.0	11

DRAFT

Site	Address	Distance (m)	Map Key
	Well ID: 7290466		
	30 QUEEN ST E Mississauga ON ***Well ID:*** 7234471	0.0	16
	port credit go station Mississauga ON ***Well ID:*** 7355171	0.0	19
	26 ANN ST. MISSISSAUGA ON ***Well ID:*** 7341844	0.0	20
	26 ANN ST. MISSISSAUGA ON ***Well ID:*** 7341883	0.0	20
	ON ***Well ID:*** 7330113	0.0	22
	PORT CREDIT GO STATION PORT CREDIT ON ***Well ID:*** 7243496	0.0	27
	ON ***Well ID:*** 7378962	0.0	30
	ROSEMERE ROAD Mississauga ON ***Well ID:*** 7287343	0.0	36
	ROSEMERE ROAD Mississauga ON ***Well ID:*** 7287344	0.0	37
	76 CUMBERLAND DR Mississauga ON ***Well ID:*** 7290465	0.0	38
	30 Queen St. East Mississauga ON ***Well ID:*** 7363633	1.8	47

DRAFT

Site	Address	Distance (m)	Map Key
	30 Queen St East Mississauga ON ***Well ID:*** 7363632	2.0	48
	lot 14 con 1 ON ***Well ID:*** 4907921	4.1	53
	15 HURNOTARIP STREET MISSISSAUGA ON ***Well ID:*** 7104773	6.7	59
	GO STATION PARKING LOT PORT CREDIT ON ***Well ID:*** 7307873	7.9	61
	30 Queen St East Mississauga ON ***Well ID:*** 7363631	9.2	66
	Carlis Place Mississauga ON ***Well ID:*** 7380746	10.3	69
	PORT CREDIT GO STATION PORT CREDIT ON ***Well ID:*** 7310439	11.0	72
	ON ***Well ID:*** 7295291	12.7	74
	lot 14 con 1 ON ***Well ID:*** 4907923	12.8	76
	PORT CREDIT GO STATION PORT CREDIT ON ***Well ID:*** 7321737	15.7	80
	158 LAKESHORE RD E Mississauga ON ***Well ID:*** 7284531	16.8	84
	PORT CREDIT GO STATION PORT CREDIT ON	17.9	85

DRAFT

Site	Address	Distance (m)	Map Key
	Well ID: 7321813		
	1155 VESTA DRIVE PORT CREDIT ON ***Well ID:*** 7306886	18.9	88
	22 ANN ST. MISSISSAUGA ON ***Well ID:*** 7341861	24.5	93
	78 PARK ST. E MISSISSAUGA ON ***Well ID:*** 7341823	24.7	94
	170 LAKESHORE ROAD EAST Oakville ON ***Well ID:*** 7287213	26.3	97
	PORT CREDIT GO STATION ETOBICOKE ON ***Well ID:*** 7321758	29.3	98
	158 LAKESHORE RD EAST Mississauga ON ***Well ID:*** 7284533	35.4	108
	ON ***Well ID:*** 7380344	35.4	110
	GO STATION PARKING LOT (SOUTH SIDE) PORT CREDIT ON ***Well ID:*** 7321811	38.4	113
	78 PARK ST. E MISSISSAUGA ON ***Well ID:*** 7341887	38.8	114
	30 Queen St E ON ***Well ID:*** 7380055	39.7	115
	PORT CREDIT GO STATION PORT CREDIT ON ***Well ID:*** 7321812	39.9	116

DRAFT

Site	Address	Distance (m)	Map Key
	HURONTARIO/ GO TRANSIT TRACKS ETOBICOKE ON ***Well ID:*** 7321771	40.7	119
	30 Queen St E ON ***Well ID:*** 7380056	41.2	120
	158 LAKESHORE RD E Mississauga ON ***Well ID:*** 7284535	41.4	121
	30 Queen St East Mississauga ON ***Well ID:*** 7363630	44.1	126
	158 LAKESHORE RD E Mississauga ON ***Well ID:*** 7282790	45.6	127
	ON ***Well ID:*** 7282791	45.9	128
	ON ***Well ID:*** 7378959	48.2	135
	158 LAKESHJORE RD E Mississauga ON ***Well ID:*** 7284534	48.3	136
	158 LAKESHORE RD E Mississauga ON ***Well ID:*** 7282792	48.5	138
	158 LAKESHORE RD E Mississauga ON ***Well ID:*** 7284532	53.9	145
	PORT CREDIT GO STATION PORT CREDIT ON ***Well ID:*** 7321814	56.2	146
	1175 Hurontario St ON	59.3	157

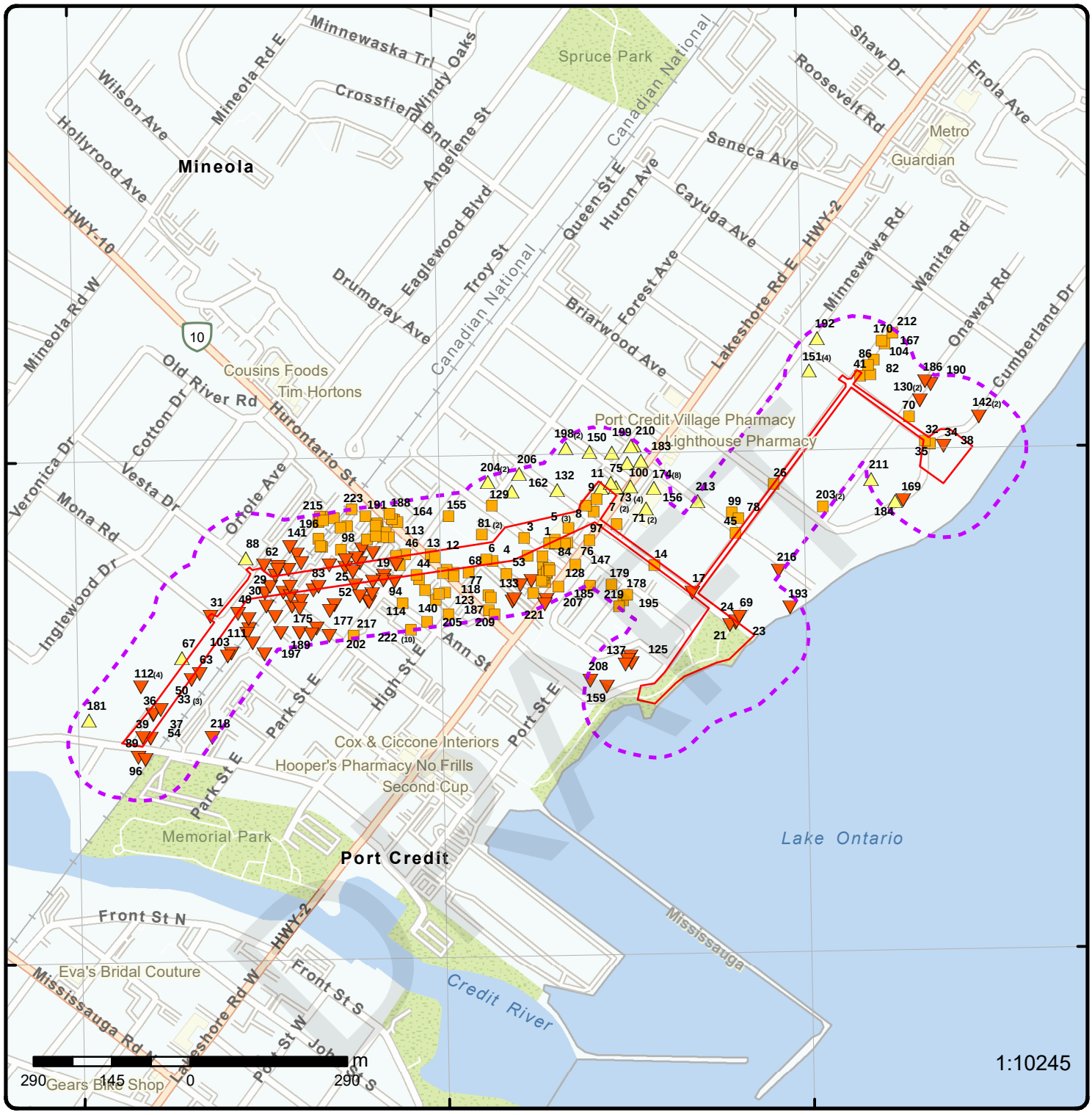
DRAFT

Site	Address	Distance (m)	Map Key
	Well ID: 7371903		
	152 LAKESHORE RD E ON ***Well ID:*** 7301773	61.5	160
	1175 Hurontario St ON ***Well ID:*** 7371901	62.9	163
	30 QUEEN ST E Mississauga ON ***Well ID:*** 7290487	66.4	165
	GO STATION PARKING LOT PORT CREDIT ON ***Well ID:*** 7307874	69.0	168
	30 queen st e. Mississauga ON ***Well ID:*** 7355170	70.1	172
	ON ***Well ID:*** 7162774	70.4	173
	1 HURONTARIO STREET Mississauga ON ***Well ID:*** 7298078	71.1	176
	72 QUEEN STREET PORT CREDIT ON ***Well ID:*** 7306887	82.6	191
	ON ***Well ID:*** 7378960	87.8	200
	150 LAKESHORE ROAD EAST WELL LOCATED ON ROAD Mississauga ON ***Well ID:*** 7298174	92.3	207
	ON ***Well ID:*** 7378961	94.0	214

DRAFT

Site	Address	Distance (m)	Map Key
	30 QUEEN ST E Mississauga ON ***Well ID:*** 7290480	99.3	**223**

DRAFT



Map: 0.1 Kilometer Radius

Order Number: 22072501112

Address: Port Credit W/WW, Mississauga, ON

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership

79°34'30"W

Aerial

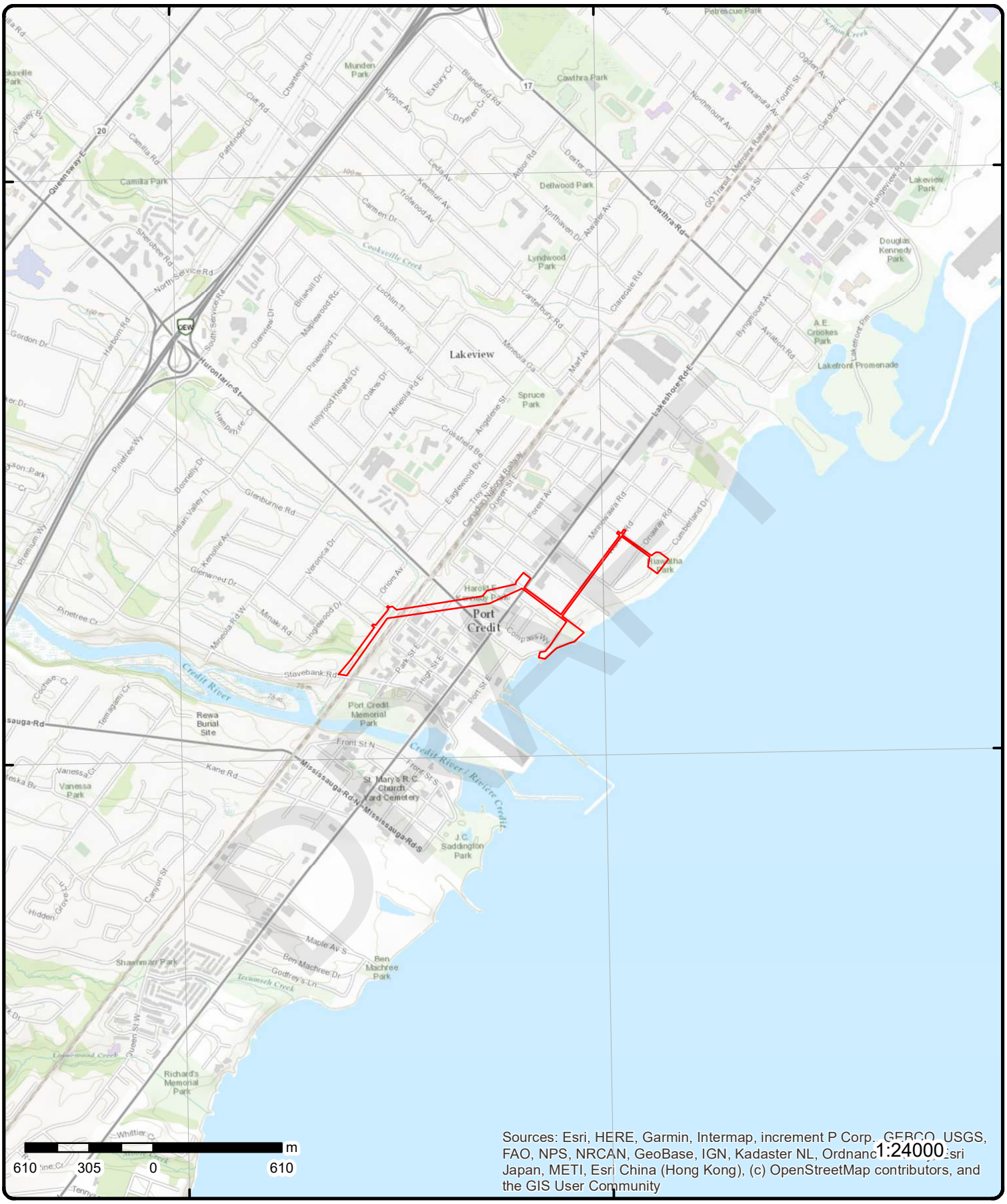
Year: 2021

Order Number: 22072501112

Address: Port Credit W/WW, Mississauga, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Address: Port Credit W/WW, ON

Source: ESRI World Topographic Map

Order Number: 22072501112

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	NNE/0.0	79.8 / 0.00	lot 14 con 1 ON	WWIS

Well ID:	4907922	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Not Used	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Observation Wells	**Date Received:**	10-Nov-1994 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	148109	**Contractor:**	1839
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	014
Depth to Bedrock:		**Concession:**	01
Well Depth:		**Concession Name:**	CIR R
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/490\4907922.pdf

Additional Detail(s) (Map)

Well Completed Date: 1994/10/07
Year Completed: 1994
Depth (m): 4.2672
Latitude: 43.5568564737694
Longitude: -79.5808886700357
Path: 490\4907922.pdf

Bore Hole Information

Bore Hole ID:	10322481	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614620.00
Code OB Desc:		**North83:**	4823634.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	3
Date Completed:	07-Oct-1994 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	gps

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

DRAFT

Overburden and Bedrock Materials Interval

Formation ID:	932060896
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	34
Most Common Material:	TILL
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932060897
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	34
Most Common Material:	TILL
Mat2:	06
Mat2 Desc:	SILT
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	2.0
Formation End Depth:	12.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932060898
Layer:	3
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	06
Mat2 Desc:	SILT
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	12.0
Formation End Depth:	14.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933170610
Layer:	2
Plug From:	2.0
Plug To:	3.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

DRAFT

Plug ID: 933170609
Layer: 1
Plug From: 0.0
Plug To: 2.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 964907922
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10871051
Casing No: 1
Comment:
Alt Name:

Construction Record - Screen

Screen ID: 933360383
Layer: 1
Slot: 040
Screen Top Depth: 4.0
Screen End Depth: 14.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Water Details

Water ID: 933796036
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 13.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10322481
Depth M: 4.2672
Year Completed: 1994
Well Completed Dt: 1994/10/07
Audit No: 148109
Tag No:
Contractor: 1839
Path: 490\4907922.pdf
Latitude: 43.5568564737694
Longitude: -79.5808886700357

---

2 | **1 of 1** | **NNE/0.0** | **79.8 / 0.00** | **lot 14 con 1 ON** | **WWIS**

Well ID: 4907920
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 10-Nov-1994 00:00:00
Selected Flag: TRUE
Abandonment Rec:

DRAFT

Audit No:	148110	**Contractor:**	1839
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	014
Depth to Bedrock:		**Concession:**	01
Well Depth:		**Concession Name:**	CIR R
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/490\4907920.pdf

Additional Detail(s) (Map)

Well Completed Date: 1994/10/07
Year Completed: 1994
Depth (m): 5.7912
Latitude: 43.5569087920863
Longitude: -79.5807512522103
Path: 490\4907920.pdf

Bore Hole Information

Bore Hole ID:	10322479	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614631.00
Code OB Desc:		**North83:**	4823640.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	3
Date Completed:	07-Oct-1994 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	gps

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932060891
Layer: 1
Color: 6
General Color: BROWN
Mat1: 34
Most Common Material: TILL
Mat2: 06
Mat2 Desc: SILT
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 0.0
Formation End Depth: 18.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

DRAFT

Formation ID: 932060892
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 18.0
Formation End Depth: 19.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933170604
Layer: 2
Plug From: 2.0
Plug To: 3.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933170605
Layer: 3
Plug From: 12.0
Plug To: 13.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933170603
Layer: 1
Plug From: 0.0
Plug To: 2.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 964907920
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10871049
Casing No: 1
Comment:
Alt Name:

Construction Record - Screen

Screen ID: 933360381
Layer: 1

DRAFT

Slot:	040
Screen Top Depth:	14.0
Screen End Depth:	19.0
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Water Details

Water ID:	933796034
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	17.0
Water Found Depth UOM:	ft

Links

Bore Hole ID:	10322479	**Tag No:**	
Depth M:	5.7912	**Contractor:**	1839
Year Completed:	1994	**Path:**	490\4907920.pdf
Well Completed Dt:	1994/10/07	**Latitude:**	43.5569087920863
Audit No:	148110	**Longitude:**	-79.5807512522103

---

3 ***1 of 1*** ***NW/0.0*** ***79.8 / 0.00*** ***ON*** ***BORE***

Borehole ID:	640890	**Inclin FLG:**	No
OGF ID:	215541285	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556943
Total Depth m:	2.9	**Longitude DD:**	-79.581449
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614575
Drill Method:		**Northing:**	4823643
Orig Ground Elev m:	62.5	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218493934	**Mat Consistency:**	
Top Depth:	.2	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	Coarse
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	beach
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE. BEACH.		

DRAFT

Geology Stratum ID:	218493933	**Mat Consistency:**	
Top Depth:	.2	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:	Dark	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial

Gsc Material Description:
Stratum Description: SILT,SAND,CLAY, GRAVEL. DARK,FLUVIO-GLACIAL, AGE GLACIAL.

Geology Stratum ID:	218493932	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: ASPHALT.

Geology Stratum ID:	218493935	**Mat Consistency:**	
Top Depth:	.9	**Material Moisture:**	
Bottom Depth:	2.9	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Stones	**Depositional Gen:**	glacial

Gsc Material Description:
Stratum Description: SILT,SAND,CLAY, STONES. BROWN,FLUVIO-GLACIAL, AGE GLACIAL.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:		**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 088560 NTS_Sheet: 30M12A
Confiden 1:

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

---

4 **1 of 1** **W/0.0** **79.8 / 0.00** **ON** **WWIS**

Well ID:	7161795	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	14-Apr-2011 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	

Audit No:	M08435	**Contractor:**	6607
Tag:	A100950	**Form Version:**	5
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/716\7161795.pdf

Additional Detail(s) (Map)

Well Completed Date: 2011/02/14
Year Completed: 2011
Depth (m):
Latitude: 43.5565753993608
Longitude: -79.5821828728807
Path: 716\7161795.pdf

Bore Hole Information

Bore Hole ID:	1003495961	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614516.00
Code OB Desc:		**North83:**	4823601.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	14-Feb-2011 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Links

Bore Hole ID:	1003495961	**Tag No:**	A100950
Depth M:		**Contractor:**	6607
Year Completed:	2011	**Path:**	716\7161795.pdf
Well Completed Dt:	2011/02/14	**Latitude:**	43.5565753993608
Audit No:	M08435	**Longitude:**	-79.5821828728807

---

5 | ***1 of 3*** | ***NE/0.0*** | ***79.8 / 0.00*** | ***170 Lakeshore Rd E Mississauga ON*** | ***SPL***

Ref No:	5656-7WMKX9	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:		**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Other
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Possible	**Site Municipality:**	
Nature of Impact:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	NA
MOE Response:		**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	10/8/2009	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Pollution Incident Reports (PIRs) and ¿Other¿ calls
Incident Reason:		**Source Type:**	
Site Name:	Elmwood Meat Market		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Elmwood Meat Market: dumping of meat/animal byproducts		
Contaminant Qty:			

---

5 | ***2 of 3*** | ***NE/0.0*** | ***79.8 / 0.00*** | ***LightPoint Properties Inc.***
170 Lakeshore Road East
Port Credit ON L5G 1G1 | ***GEN***

Generator No:	ON6467413	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Dec 2017	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	221 L
Waste Class Desc:	Light fuels

---

5 | ***3 of 3*** | ***NE/0.0*** | ***79.8 / 0.00*** | ***170 Lakeshore Rd E***
Mississauga ON L5G1G1 | ***EHS***

Order No:	20170210025	**Nearest Intersection:**	
Status:	C	**Municipality:**	Mississauga
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	16-FEB-17	**Search Radius (km):**	.25
Date Received:	10-FEB-17	**X:**	-79.580444
Previous Site Name:		**Y:**	43.557097
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

---

6 | ***1 of 1*** | ***W/0.0*** | ***79.8 / 0.00*** | ***150 LAKESHORE BLVD. EAST***
Mississauga ON | ***WWIS***

Well ID:	7155591	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Test Hole	**Date Received:**	08-Dec-2010 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	M07281	**Contractor:**	6607
Tag:	A100950	**Form Version:**	5

DRAFT

Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/715\7155591.pdf

Additional Detail(s) (Map)

Well Completed Date: 2010/07/23
Year Completed: 2010
Depth (m): 5.7
Latitude: 43.5565952443951
Longitude: -79.5823309773926
Path: 715\7155591.pdf

Bore Hole Information

Bore Hole ID:	1003431946	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614504.00
Code OB Desc:		**North83:**	4823603.00
Open Hole:	No	**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	23-Jul-2010 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1006147375
Layer: 2
Color: 2
General Color: GREY
Mat1: 06
Most Common Material: SILT
Mat2: 05
Mat2 Desc: CLAY
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 3.299999952316284
Formation End Depth: 5.699999809265137
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006147374

DRAFT

Layer: 1
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 05
Mat2 Desc: CLAY
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 0.0
Formation End Depth: 3.299999952316284
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006147378
Layer: 2
Plug From: 0.30000001192092896
Plug To: 2.0999999046325684
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006147377
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006147383
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1006147373
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006147379
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 2.5
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1006147380

DRAFT

Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From: 2.5
Depth To: 5.5
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006147381
Layer: 1
Slot: 20
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.099999904632568

Hole Diameter

Hole ID: 1006147376
Diameter:
Depth From: 0.0
Depth To: 5.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole Information

Bore Hole ID: 1006147355
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind: This is a record from cluster log sheet
Date Completed: 23-Jul-2010 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 614510.00
North83: 482361.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: WWR

Annular Space/Abandonment Sealing Record

Plug ID: 1006147359
Layer:
Plug From:
Plug To:
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006147358
Method Construction Code:

DRAFT

Method Construction:
Other Method Construction: BORING

Pipe Information

Pipe ID: 1006147360
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006147362
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.899999976158142
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006147361
Layer: 1
Slot:
Screen Top Depth: 1.899999976158142
Screen End Depth: 4.900000095367432
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1006147363
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1006147357
Diameter:
Depth From:
Depth To: 4.900000095367432
Hole Depth UOM: m
Hole Diameter UOM: cm

DRAFT

Bore Hole Information

Bore Hole ID:	1006147364	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614519.00
Code OB Desc:		***North83:***	4823619.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:	This is a record from cluster log sheet	***UTMRC:***	3
Date Completed:	10-Jul-2010 00:00:00	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	WWR

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Annular Space/Abandonment Sealing Record

Plug ID:	1006147368
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1006147367
Method Construction Code:	
Method Construction:	
Other Method Construction:	BORING

Pipe Information

Pipe ID:	1006147369
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006147371
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	2.5
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006147370
Layer:	1
Slot:	
Screen Top Depth:	2.5
Screen End Depth:	5.5

DRAFT

Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1006147372
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1006147366
Diameter:
Depth From:
Depth To: 5.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID:	1003431946	**Tag No:**	A100950
Depth M:	5.7	**Contractor:**	6607
Year Completed:	2010	**Path:**	715\7155591.pdf
Well Completed Dt:	2010/07/23	**Latitude:**	43.5565952443951
Audit No:	M07281	**Longitude:**	-79.5823309773926

---

7 **1 of 2** **NE/0.0** **79.8 / 0.00** **3 ELMWOOD AVE N**
Mississauga ON
WWIS

Well ID:	7290467	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	18-Jul-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z248369	**Contractor:**	6607
Tag:	A224507	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

DRAFT

Municipality: MISSISSAUGA CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/729\7290467.pdf

Additional Detail(s) (Map)

Well Completed Date: 2017/05/18
Year Completed: 2017
Depth (m): 6.9
Latitude: 43.557365798849
Longitude: -79.57984909316
Path: 729\7290467.pdf

Bore Hole Information

Bore Hole ID: 1006629977
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 18-May-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 17
East83: 614703.00
North83: 4823692.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006694166
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 06
Mat3 Desc: SILT
Formation Top Depth: 0.0
Formation End Depth: 0.8999999761581421
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006694167
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 34
Mat2 Desc: TILL
Mat3: 66
Mat3 Desc: DENSE

DRAFT

Formation Top Depth: 0.8999999761581421
Formation End Depth: 5.099999904632568
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006694168
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 06
Mat2 Desc: SILT
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 5.099999904632568
Formation End Depth: 6.900000095367432
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006694176
Layer: 2
Plug From: 0.30000001192092896
Plug To: 3.299999952316284
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006694175
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006694174
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1006694165
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006694171
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0

DRAFT

Depth To:	3.9000000953674316
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006694172
Layer:	1
Slot:	10
Screen Top Depth:	3.9000000953674316
Screen End Depth:	6.900000095367432
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.400000095367432

Water Details

Water ID:	1006694170
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1006694169
Diameter:	21.0
Depth From:	0.0
Depth To:	6.900000095367432
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1006629977	**Tag No:**	A224507
Depth M:	6.9	**Contractor:**	6607
Year Completed:	2017	**Path:**	729\7290467.pdf
Well Completed Dt:	2017/05/18	**Latitude:**	43.557365798849
Audit No:	Z248369	**Longitude:**	-79.57984909316

7 **2 of 2** **NE/0.0** **79.8 / 0.00** ***3 ELMWOOD AVE N Mississauga ON*** ***WWIS***

Well ID:	7290468	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	18-Jul-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z248370	**Contractor:**	6607
Tag:	A224505	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	

DRAFT

Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/729\7290468.pdf

Additional Detail(s) (Map)

Well Completed Date:	2017/05/18
Year Completed:	2017
Depth (m):	5.7
Latitude:	43.557365798849
Longitude:	-79.57984909316
Path:	729\7290468.pdf

Bore Hole Information

Bore Hole ID:	1006630452	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614703.00
Code OB Desc:		**North83:**	4823692.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	18-May-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006694178
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	06
Mat3 Desc:	SILT
Formation Top Depth:	0.0
Formation End Depth:	0.8999999761581421
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006694180
Layer:	3
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	06

DRAFT

Mat2 Desc: SILT
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 5.099999904632568
Formation End Depth: 5.699999809265137
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006694179
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 34
Mat2 Desc: TILL
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 0.8999999761581421
Formation End Depth: 5.099999904632568
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006694187
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006694188
Layer: 2
Plug From: 0.30000001192092896
Plug To: 2.0999999046325684
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006694186
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1006694177
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006694183
Layer: 1

DRAFT

Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	2.700000047683716
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006694184
Layer:	1
Slot:	10
Screen Top Depth:	2.700000047683716
Screen End Depth:	5.699999809265137
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.400000095367432

Water Details

Water ID:	1006694182
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1006694181
Diameter:	21.0
Depth From:	0.0
Depth To:	5.699999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1006630452	**Tag No:**	A224505
Depth M:	5.7	**Contractor:**	6607
Year Completed:	2017	**Path:**	729\7290468.pdf
Well Completed Dt:	2017/05/18	**Latitude:**	43.557365798849
Audit No:	Z248370	**Longitude:**	-79.57984909316

---

8 | ***1 of 1*** | ***NE/0.0*** | ***79.8 / 0.00*** | ***5 ELMWOOD AVENUE SOUTH, MISSISSAUGA ON*** | ***INC***

Incident No:	334302	**Any Health Impact:**	
Incident ID:	2485786	**Any Enviro Impact:**	
Instance No:		**Service Interrupted:**	
Status Code:	Causal Analysis Complete	**Was Prop Damaged:**	
Attribute Category:	FS-Incident	**Reside App. Type:**	
Context:		**Commer App. Type:**	
Date of Occurrence:		**Indus App. Type:**	
Time of Occurrence:		**Institut App. Type:**	
Incident Created On:		**Venting Type:**	
Instance Creation Dt:		**Vent Conn Mater:**	
Instance Install Dt:		**Vent Chimney Mater:**	
Occur Insp Start		**Pipeline Type:**	Service / Riser Distribution Pipeline

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Date:

Approx Quant Rel:		**Pipeline Involved:**	
Tank Capacity:		**Pipe Material:**	Plastic
Fuels Occur Type:		**Depth Ground Cover:**	
Fuel Type Involved:		**Regulator Location:**	Outside
Enforcement Policy:		**Regulator Type:**	Service Regulator (up to 60 psi intake)
Prc Escalation Req:		**Operation Pressure:**	IP
Tank Material Type:		**Liquid Prop Make:**	
Tank Storage Type:		**Liquid Prop Model:**	
Tank Location Type:		**Liquid Prop Serial No:**	
Pump Flow Rate Cap:		**Liquid Prop Notes:**	
Task No:		**Equipment Type:**	
Notes:		**Equipment Model:**	
Drainage System:		**Serial No:**	
Sub Surface Contam.:		**Cylinder Capacity:**	
Aff Prop Use Water:		**Cylinder Cap Units:**	
Contam. Migrated:		**Cylinder Mat Type:**	
Contact Natural Env:		**Near Body of Water:**	

Incident Location: 5 ELMWOOD AVENUE SOUTH, MISSISSAUGA - 1/2" PIPELINE HIT
Occurence Narrative:
Operation Type Involved:
Item:
Item Description:
Device Installed Location:

9	1 of 1	NE/0.0	79.8 / 0.00	**Port Credit Properties c/o The Effort Trust Comp.** **3 Elmwood Ave. North** **Mississauga ON L5G 3J8**	GEN

Generator No:	ON4676433	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Dec 2017	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class: 221 L
Waste Class Desc: Light fuels

10	1 of 1	W/0.0	79.8 / 0.00	**ON**	BORE

Borehole ID:	833854	**Inclin FLG:**	No
OGF ID:	215585985	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	01-JUN-1959	**Municipality:**	
Static Water Level:	1.4	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556435
Total Depth m:	6.7	**Longitude DD:**	-79.583239
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614431
Drill Method:	Hollow stem auger	**Northing:**	4823584
Orig Ground Elev m:	81.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 20 metres
DEM Ground Elev m:	82.3		
Concession:			

DRAFT

Location D: PORT CREDIT CREEK TO LAKE ONTARIO * STORM SEWER
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	6014647	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	Wet
Bottom Depth:	2.7	**Material Texture:**	Fine
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Fine to very fine sand (saturated below 1.52m) **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	6014648	**Mat Consistency:**	Hard
Top Depth:	2.7	**Material Moisture:**	
Bottom Depth:	5.3	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Stones	**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Grey, hard, silty clay or clayey silt, with sand and stones up to 0.05m in diameter **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	6014649	**Mat Consistency:**	
Top Depth:	5.3	**Material Moisture:**	
Bottom Depth:	6.7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial

Gsc Material Description:
Stratum Description: Glacial till **Note: Many records provided by the department have a truncated [Stratum Description] field.

11	1 of 1	NE/0.0	80.0 / 0.15	3 ELMWOOD AVE N Mississauga ON	WWIS

Well ID:	7290466	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	18-Jul-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z248368	**Contractor:**	6607
Tag:	A224506	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

DRAFT

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/729\7290466.pdf

Additional Detail(s) (Map)

Well Completed Date: 2017/05/19
Year Completed: 2017
Depth (m): 6.9
Latitude: 43.5577688643824
Longitude: -79.5796786711108
Path: 729\7290466.pdf

Bore Hole Information

Bore Hole ID: 1006629963
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 19-May-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 614716.00
North83: 4823737.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006694155
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 06
Mat2 Desc: SILT
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 5.099999904632568
Formation End Depth: 6.900000095367432
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006694154
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 34
Mat2 Desc: TILL
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 0.8999999761581421
Formation End Depth: 5.099999904632568

DRAFT

Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006694153
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 06
Mat3 Desc: SILT
Formation Top Depth: 0.0
Formation End Depth: 0.8999999761581421
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006694163
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006694164
Layer: 2
Plug From: 0.30000001192092896
Plug To: 3.299999952316284
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006694162
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1006694152
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006694159
Layer: 2
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:

DRAFT

Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1006694158
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 3.9000000953674316
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006694160
Layer: 1
Slot: 10
Screen Top Depth: 3.9000000953674316
Screen End Depth: 6.900000095367432
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1006694157
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006694156
Diameter: 21.0
Depth From: 0.0
Depth To: 6.900000095367432
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1006629963
Depth M: 6.9
Year Completed: 2017
Well Completed Dt: 2017/05/19
Audit No: Z248368
Tag No: A224506
Contractor: 6607
Path: 729\7290466.pdf
Latitude: 43.5577688643824
Longitude: -79.5796786711108

12	1 of 1	W/0.0	79.8 / 0.00	ON	BORE

Borehole ID: 649448
OGF ID: 215549823
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:

DRAFT

Completion Date:	JUN-1959	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556653
Total Depth m:	6.9	**Longitude DD:**	-79.583498
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614410
Drill Method:	Diamond Drill	**Northing:**	4823608
Orig Ground Elev m:	82.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	82.4		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218527010	**Mat Consistency:**	Hard
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:	6.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT,SAND.HARD. 016 010 0003004000080080 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218527008	**Mat Consistency:**	
Top Depth:	.6	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND.		

Geology Stratum ID:	218527009	**Mat Consistency:**	Hard
Top Depth:	.9	**Material Moisture:**	
Bottom Depth:	2.4	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY,SILT. BROWN,HARD.		

Geology Stratum ID:	218527007	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL.		

Source

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR3.txt RecordID: 201070 NTS_Sheet: 30M12A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

---

13 | ***1 of 1*** | ***W/0.0*** | ***79.8 / 0.00*** | ***ON*** | ***BORE***

Borehole ID:	833856	**Inclin FLG:**	No
OGF ID:	215585987	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	02-JUN-1959	**Municipality:**	
Static Water Level:	3.5	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556701
Total Depth m:	6.9	**Longitude DD:**	-79.583591
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614402
Drill Method:	Hollow stem auger	**Northing:**	4823613
Orig Ground Elev m:	82.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 20 metres
DEM Ground Elev m:	82.5		

Concession:
Location D: PORT CREDIT CREEK TO LAKE ONTARIO * STORM SEWER
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	6014653	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Topsoil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Topsoil **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	6014655	**Mat Consistency:**	
Top Depth:	.9	**Material Moisture:**	
Bottom Depth:	2.4	**Material Texture:**	Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	

DRAFT

Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Medium brown silty clay **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014656	**Mat Consistency:**	Stiff
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:	6.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Stiff silty clay or clayey silt with sand and small stones, (glacial till) **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014654	**Mat Consistency:**	
Top Depth:	.6	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	Fine
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Fine sand **Note: Many records provided by the department have a truncated [Stratum Description] field.		

---

14 | **1 of 1** | **E/0.0** | **79.8 / 0.00** | **ON** | **BORE**

Borehole ID:	641146	**Inclin FLG:**	No
OGF ID:	215541541	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	FEB-1970	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556456
Total Depth m:	2.6	**Longitude DD:**	-79.578489
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614815
Drill Method:	Power auger	**Northing:**	4823593
Orig Ground Elev m:	80	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.7		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494950	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

DRAFT

Geology Stratum ID:	218494953	**Mat Consistency:**	
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:	2.6	**Material Texture:**	Coarse
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,LACUSTRINE,AGE GLACIAL.		

Geology Stratum ID:	218494952	**Mat Consistency:**	
Top Depth:	1.2	**Material Moisture:**	Moist
Bottom Depth:	2.4	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SILT,SAND,CLAY. LACUSTRINE,MOIST,AGE GLACIAL.		

Geology Stratum ID:	218494951	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND,CLAY,SILT.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 091120 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

15 | ***1 of 1*** | ***W/0.0*** | ***79.8 / 0.00*** | ***ON*** | ***BORE***

Borehole ID:	646206	**Inclin FLG:**	No
OGF ID:	215546589	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	MAY-1968	**Municipality:**	

DRAFT

Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556528
Total Depth m:	9.9	**Longitude DD:**	-79.584306
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614345
Drill Method:	Diamond Drill	**Northing:**	4823593
Orig Ground Elev m:	80.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	82.5		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218514026	**Mat Consistency:**	Dense
Top Depth:	1.1	**Material Moisture:**	
Bottom Depth:	1.8	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	SILT,SAND. BROWN,GLACIAL,DENSE, AGE GLACIAL.		

Geology Stratum ID:	218514027	**Mat Consistency:**	Hard
Top Depth:	1.8	**Material Moisture:**	
Bottom Depth:	6.7	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY. GREY,GLACIAL,HARD,AGE GLACIAL.		

Geology Stratum ID:	218514025	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Stones	**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,STONES.		

Geology Stratum ID:	218514028	**Mat Consistency:**	
Top Depth:	6.7	**Material Moisture:**	
Bottom Depth:	9.9	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Shale	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	Ordovician
Material 4:		**Depositional Gen:**	marine
Gsc Material Description:			
Stratum Description:	SHALE. GREY,MARINE,LAYERED, AGE ORDOVICIAN. 014 010 0003502300060060 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

DRAFT

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR2.txt RecordID: 142280 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

16 | ***1 of 7*** | ***W/0.0*** | ***79.7 / -0.10*** | ***30 QUEEN ST E Mississauga ON*** | ***WWIS***

Well ID:	7234471	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	30-Dec-2014 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z192922	**Contractor:**	7295
Tag:	A168568	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:			
Site Info:			

Bore Hole Information

Bore Hole ID:	1005281118	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	
Code OB Desc:		**North83:**	
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	9
Date Completed:	24-Oct-2014 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

DRAFT

Formation ID: 1005471807
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3: 08
Mat3 Desc: FINE SAND
Formation Top Depth: 3.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005471808
Layer: 3
Color: 2
General Color: GREY
Mat1: 34
Most Common Material: TILL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 8.0
Formation End Depth: 22.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005471806
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2:
Mat2 Desc:
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005471809
Layer: 4
Color: 2
General Color: GREY
Mat1: 34
Most Common Material: TILL
Mat2: 17
Mat2 Desc: SHALE
Mat3:
Mat3 Desc:
Formation Top Depth: 22.0

DRAFT

Formation End Depth: 30.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005471816
Layer: 1
Plug From: 0.0
Plug To: 24.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1005471815
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1005471805
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005471812
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 25.0
Casing Diameter: 1.7999999523162842
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1005471813
Layer: 1
Slot: 10
Screen Top Depth: 25.0
Screen End Depth: 30.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Water Details

Water ID: 1005471811
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

DRAFT

Hole Diameter

Hole ID: 1005471810
Diameter:
Depth From:
Depth To:
Hole Depth UOM: ft
Hole Diameter UOM: inch

---

16 ***2 of 7*** ***W/0.0*** ***79.7 / -0.10*** ***Metrolinx*** ***GEN***
30 Queen Street East
Mississauga ON L5H 1L4

Generator No: ON5182768
SIC Code: 482114
SIC Description: 482114
Approval Years: 2016
PO Box No:
Country: Canada

Status:
Co Admin: Cathy Lumsden
Choice of Contact: CO_ADMIN
Phone No Admin: 416-202-5167 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

---

16 ***3 of 7*** ***W/0.0*** ***79.7 / -0.10*** ***Metrolinx*** ***GEN***
30 Queen Street East
Mississauga ON L5H 1L4

Generator No: ON5182768
SIC Code: 482114
SIC Description: 482114
Approval Years: 2015
PO Box No:
Country: Canada

Status:
Co Admin: Cathy Lumsden
Choice of Contact: CO_ADMIN
Phone No Admin: 905-803-8008 Ext.2607
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

---

16 ***4 of 7*** ***W/0.0*** ***79.7 / -0.10*** ***Metrolinx*** ***GEN***
30 Queen Street East
Mississauga ON L5H 1L4

Generator No: ON5182768
SIC Code: 482114
SIC Description: 482114
Approval Years: 2014
PO Box No:
Country: Canada

Status:
Co Admin: Emily Cosburn
Choice of Contact: CO_OFFICIAL
Phone No Admin: (416) 869-3600 Ext.5209
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

---

16 ***5 of 7*** ***W/0.0*** ***79.7 / -0.10*** ***Metrolinx*** ***GEN***
30 Queen Street East
Mississauga ON L5H 1L4

DRAFT

Generator No: ON5182768
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

---

16 | **6 of 7** | **W/0.0** | **79.7 / -0.10** | **GEN**

Metrolinx
30 Queen Street East
Mississauga ON L5G 3B7

Generator No: ON2615101
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

---

16 | **7 of 7** | **W/0.0** | **79.7 / -0.10** | **GEN**

Metrolinx Capital Projects Group
30 Queen St E
Mississauga ON L5G 3B7

Generator No: ON7891479
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 U
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 221 L
Waste Class Desc: Light fuels

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

---

17 | **1 of 1** | **E/0.0** | **78.9 / -0.99** | **BORE**

ON

Borehole ID: 641145
OGF ID: 215541540
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: FEB-1970
Static Water Level:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:

DRAFT

Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.555995
Total Depth m:	2.1	**Longitude DD:**	-79.577633
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614885
Drill Method:	Power auger	**Northing:**	4823543
Orig Ground Elev m:	79.1	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.2		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494947	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY.		

Geology Stratum ID:	218494949	**Mat Consistency:**	
Top Depth:	1.8	**Material Moisture:**	
Bottom Depth:	2.1	**Material Texture:**	
Material Color:	Speckled	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SAND,CLAY,SILT. SPECKLED,LACUSTRINE, AGE GLACIAL.		

Geology Stratum ID:	218494946	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218494948	**Mat Consistency:**	
Top Depth:	.2	**Material Moisture:**	Moist
Bottom Depth:	1.8	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Organic	**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SILT,SAND,CLAY, ORGANIC. LACUSTRINE,MOIST,AGE GLACIAL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 091110 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

18 ***1 of 1*** ***W/0.0*** ***78.7 / -1.15*** ***ON*** ***BORE***

Borehole ID:	646205	**Inclin FLG:**	No
OGF ID:	215546588	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	MAY-1968	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556353
Total Depth m:	8.2	**Longitude DD:**	-79.584682
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614315
Drill Method:	Diamond Drill	**Northing:**	4823573
Orig Ground Elev m:	81.1	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	82.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218514022	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	SILT,CLAY,SAND. BROWN,GLACIAL,DENSE, AGE GLACIAL.		

Geology Stratum ID:	218514023	**Mat Consistency:**	Hard
Top Depth:	3	**Material Moisture:**	
Bottom Depth:	7.1	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY. GREY,GLACIAL,HARD,AGE GLACIAL.		

DRAFT

Geology Stratum ID:	218514024	**Mat Consistency:**	
Top Depth:	7.1	**Material Moisture:**	
Bottom Depth:	8.2	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Shale	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	Ordovician
Material 4:		**Depositional Gen:**	marine

Gsc Material Description:

Stratum Description: SHALE. GREY,MARINE,AGE ORDOVICIAN. 00000025AGE GLACIAL **Note: Many records provided by the department have a truncated [Stratum Description] field.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)

Source Details: File: TOR2.txt RecordID: 142270 NTS_Sheet: 30M12A

Confiden 1: Reliable information but incomplete.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)

Source Originators: Geological Survey of Canada

---

19 | ***1 of 1*** | ***W/0.0*** | ***79.6 / -0.28*** | ***port credit go station Mississauga ON*** | ***WWIS***

Well ID:	7355171	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Test Hole	**Data Entry Status:**	
Use 2nd:	Monitoring	**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	28-Nov-2018 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z275350	**Contractor:**	7383
Tag:	A239126	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY (PORT CREDIT)

Site Info:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2018/01/13

DRAFT

Year Completed: 2018
Depth (m): 9.144
Latitude: 43.5565769655308
Longitude: -79.5852161374119
Path:

Bore Hole Information

Bore Hole ID:	1008221295	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614271.00
Code OB Desc:		***North83:***	4823597.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	13-Jan-2018 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1008268351
Layer: 2
Color:
General Color:
Mat1: 06
Most Common Material: SILT
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM:

Overburden and Bedrock Materials Interval

Formation ID: 1008268350
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth:
Formation End Depth UOM:

Overburden and Bedrock Materials Interval

Formation ID: 1008268353

DRAFT

Layer: 4
Color:
General Color:
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008268352
Layer: 3
Color:
General Color:
Mat1: 34
Most Common Material: TILL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM:

Annular Space/Abandonment Sealing Record

Plug ID: 1008268741
Layer: 3
Plug From: 19.0
Plug To: 30.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008268739
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008268740
Layer: 2
Plug From: 1.0
Plug To: 19.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008269236
Method Construction Code: 6

DRAFT

Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1008267822
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008269425
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 20.0
Casing Diameter: 2.0
Casing Diameter UOM: Inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008269595
Layer: 1
Slot: 10
Screen Top Depth: 20.0
Screen End Depth: 30.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.375

Results of Well Yield Testing

Pump Test ID: 1008269861
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1008269724
Layer: 1
Kind Code:
Kind:
Water Found Depth: 19.0
Water Found Depth UOM: ft

DRAFT

Hole Diameter

Hole ID:	1008269041
Diameter:	8.5
Depth From:	0.0
Depth To:	30.0
Hole Depth UOM:	ft
Hole Diameter UOM:	Inch

Links

Bore Hole ID:	1008221295	***Tag No:***	A239126
Depth M:	9.144	***Contractor:***	7383
Year Completed:	2018	***Path:***	735\7355171.pdf
Well Completed Dt:	2018/01/13	***Latitude:***	43.5565769655308
Audit No:	Z275350	***Longitude:***	-79.5852161374119

---

20 ***1 of 2*** ***W/0.0*** ***78.8 / -1.00*** ***26 ANN ST. MISSISSAUGA ON*** ***WWIS***

Well ID:	7341844	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	16-Sep-2019 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	GNLFU7D8	***Contractor:***	6607
Tag:	A271735	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:	MW 19-4 SH		

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/734\7341844.pdf

Additional Detail(s) (Map)

Well Completed Date:	2019/08/19
Year Completed:	2019
Depth (m):	36.576
Latitude:	43.5564259320474
Longitude:	-79.5853806219843
Path:	734\7341844.pdf

Bore Hole Information

Bore Hole ID:	1007643207	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614258.00
Code OB Desc:		***North83:***	4823580.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4

DRAFT

Date Completed: 19-Aug-2019 00:00:00 ***UTMRC Desc:*** margin of error : 30 m - 100 m
Remarks: ***Location Method:*** wwr
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1007643849
Layer: 1
Color: 6
General Color: BROWN
Mat1: 34
Most Common Material: TILL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007643850
Layer: 2
Color: 2
General Color: GREY
Mat1: 34
Most Common Material: TILL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 15.0
Formation End Depth: 27.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007643851
Layer: 3
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2: 15
Mat2 Desc: LIMESTONE
Mat3:
Mat3 Desc:
Formation Top Depth: 27.0
Formation End Depth: 120.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

DRAFT

Plug ID: 1007644293
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007644427
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007644428
Layer: 2
Plug From: 1.0
Plug To: 115.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007643575
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1007643576
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1007643428
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007644013
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 115.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

DRAFT

Construction Record - Screen

Screen ID:	1007644093
Layer:	1
Slot:	10
Screen Top Depth:	115.0
Screen End Depth:	120.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.5

Results of Well Yield Testing

Pump Test ID:	1007643429
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1007644189
Diameter:	4.0
Depth From:	30.0
Depth To:	120.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1007644188
Diameter:	8.0
Depth From:	0.0
Depth To:	30.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Links

Bore Hole ID:	1007643207	***Tag No:***	A271735
Depth M:	36.576	***Contractor:***	6607
Year Completed:	2019	***Path:***	734\7341844.pdf
Well Completed Dt:	2019/08/19	***Latitude:***	43.5564259320474
Audit No:	GNLFU7D8	***Longitude:***	-79.5853806219843

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	2 of 2	W/0.0	78.8 / -1.00	26 ANN ST. MISSISSAUGA ON	WWIS

Well ID:	7341883	***Flowing (Y/N):***	

DRAFT

Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	16-Sep-2019 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	TOJ5WP3R	**Contractor:**	6607
Tag:	A271753	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info: MW 19-4 DH

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/734\7341883.pdf

Additional Detail(s) (Map)

Well Completed Date: 2019/08/21
Year Completed: 2019
Depth (m): 47.5488
Latitude: 43.5564259320474
Longitude: -79.5853806219843
Path: 734\7341883.pdf

Bore Hole Information

Bore Hole ID:	1007643324	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614258.00
Code OB Desc:		**North83:**	4823580.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	21-Aug-2019 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1007643951
Layer: 1
Color: 6
General Color: BROWN
Mat1: 34
Most Common Material: TILL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0

DRAFT

Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007643952
Layer: 2
Color: 2
General Color: GREY
Mat1: 34
Most Common Material: TILL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 15.0
Formation End Depth: 27.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007643953
Layer: 3
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2: 15
Mat2 Desc: LIMESTONE
Mat3:
Mat3 Desc:
Formation Top Depth: 27.0
Formation End Depth: 156.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007644332
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007644514
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007644515
Layer: 2
Plug From: 1.0
Plug To: 151.0

DRAFT

Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007643627
Method Construction Code: 3
Method Construction: Rotary (Reverse)
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1007643628
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1007643626
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1007643506
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007644049
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 151.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1007644129
Layer: 1
Slot: 10
Screen Top Depth: 151.0
Screen End Depth: 156.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.5

Results of Well Yield Testing

Pump Test ID: 1007643507

DRAFT

Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1007644240
Diameter: 4.0
Depth From: 30.0
Depth To: 156.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1007644239
Diameter: 8.0
Depth From: 0.0
Depth To: 30.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1007643324
Depth M: 47.5488
Year Completed: 2019
Well Completed Dt: 2019/08/21
Audit No: TOJ5WP3R
Tag No: A271753
Contractor: 6607
Path: 734\7341883.pdf
Latitude: 43.5564259320474
Longitude: -79.5853806219843

---

21 ***1 of 1*** ***ESE/0.0*** ***76.9 / -2.90*** ***ON*** ***BORE***

Borehole ID: 641144
OGF ID: 215541539
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: FEB-1970
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 1.8
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 77.8
Elev Reliabil Note:
DEM Ground Elev m: 78.4
Concession:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.555444
Longitude DD: -79.57678
UTM Zone: 17
Easting: 614955
Northing: 4823483
Location Accuracy:
Accuracy: Not Applicable

DRAFT

Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	218494943	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	0	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	

Gsc Material Description:
Stratum Description: ASPHALT.

Geology Stratum ID:	218494944	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.9	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:		***Depositional Gen:***	lacustrine

Gsc Material Description:
Stratum Description: CLAY,SILT,SAND. LACUSTRINE,AGE GLACIAL.

Geology Stratum ID:	218494945	***Mat Consistency:***	
Top Depth:	.9	***Material Moisture:***	
Bottom Depth:	1.8	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Silt	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:		***Depositional Gen:***	lacustrine

Gsc Material Description:
Stratum Description: SILT,CLAY,SAND. LACUSTRINE,AGE GLACIAL.

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	M	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 091100 NTS_Sheet: 30M12A
Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

22	***1 of 1***	***W/0.0***	***79.2 / -0.65***	***ON***	***WWIS***

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Well ID:	7330113	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	15-Mar-2019 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	C44114	**Contractor:**	7215
Tag:	A259438	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2019/02/19
Year Completed:	2019
Depth (m):	
Latitude:	43.5565090894966
Longitude:	-79.5855520075791
Path:	

Bore Hole Information

Bore Hole ID:	1007451879	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614244.00
Code OB Desc:		**North83:**	4823589.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	19-Feb-2019 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Links

Bore Hole ID:	1007451879	**Tag No:**	A259438
Depth M:		**Contractor:**	7215
Year Completed:	2019	**Path:**	
Well Completed Dt:	2019/02/19	**Latitude:**	43.5565090894966
Audit No:	C44114	**Longitude:**	-79.5855520075791

23	1 of 1	ESE/0.0	76.7 / -3.18	**The Corporation of the City of Mississauga** **Elmwood Dr and Carlis Place** **Mississauga ON**	SPL

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Ref No:	4006-8W2K8P	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	09-JUL-12	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Unknown	**Sector Type:**	Other
Incident Event:		**Agency Involved:**	
Contaminant Code:	43	**Nearest Watercourse:**	
Contaminant Name:	SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)	**Site Address:**	Elmwood Dr and Carlis Place
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Confirmed	**Site Municipality:**	Mississauga
Nature of Impact:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:	Sewage - Municipal/Private and Commercial	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	No Field Response	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	09-JUL-12	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Watercourse Spills
Incident Reason:	Other - Reason not otherwise defined	**Source Type:**	
Site Name:	Watermain break site<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Sediment release from watermain break to L. Ont		
Contaminant Qty:			

24	1 of 1	E/0.0	76.7 / -3.18	**The Regional Municipality of Peel** **Elmwood Ave and Carlis Place** **Mississauga ON**	SPL

Ref No:	1553-8VJHKS	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	23-JUN-12	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Water Supply
Incident Event:		**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	SILT	**Site Address:**	Elmwood Ave and Carlis Place
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Not Anticipated	**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:	Sewage - Municipal/Private and Commercial	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	No Field Response	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	23-JUN-12	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Watercourse Spills
Incident Reason:		**Source Type:**	
Site Name:	water main<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Elmwood Ave & Carlis Place, water main break, silt to L. Ont		
Contaminant Qty:			

25	1 of 1	W/0.0	78.8 / -1.00	**ON**	BORE

DRAFT

Borehole ID:	640916	**Inclin FLG:**	No
OGF ID:	215541311	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1965	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556191
Total Depth m:	1.2	**Longitude DD:**	-79.586171
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614195
Drill Method:	Power auger	**Northing:**	4823553
Orig Ground Elev m:	82.9	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	82.5		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494061	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	Medium
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,SILT, CLAY. ALLUVIAL,AGE POST-GLACIAL. T,CLAY.		

Geology Stratum ID:	218494060	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,SILT, GRAVEL.		

Geology Stratum ID:	218494059	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	0	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		

DRAFT

Source Details: File: TOR1B.txt RecordID: 088820 NTS_Sheet: 30M12A
Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada
Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

26 **1 of 1** **ENE/0.0** **79.8 / 0.00** **ON** **BORE**

Borehole ID: 641029
OGF ID: 215541424
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: FEB-1970
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 2
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 80.8
Elev Reliabil Note:
DEM Ground Elev m: 80.4
Concession:
Location D:
Survey D:
Comments:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.557772
Longitude DD: -79.575734
UTM Zone: 17
Easting: 615035
Northing: 4823743
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218494490
Top Depth: 0
Bottom Depth: .1
Material Color:
Material 1: Asphalt
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: ASPHALT.
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218494492
Top Depth: .5
Bottom Depth: .6
Material Color: Dark
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4: Organic
Gsc Material Description:
Stratum Description: SAND,SILT,CLAY, ORGANIC. DARK,LACUSTRINE,AGE GLACIAL.
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: lacustrine

Geology Stratum ID: 218494493
Top Depth: .6
Bottom Depth: 2
Mat Consistency:
Material Moisture:
Material Texture:

DRAFT

Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine

Gsc Material Description:
Stratum Description: SAND,CLAY,SILT. BROWN,LACUSTRINE,AGE GLACIAL.

Geology Stratum ID:	218494491	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.5	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Stones	**Depositional Gen:**	

Gsc Material Description:
Stratum Description: SAND,SILT,CLAY, STONES. CRUSHED.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 089950 NTS_Sheet: 30M12A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
27	1 of 1	W/0.0	78.8 / -1.00	PORT CREDIT GO STATION PORT CREDIT ON	WWIS

Well ID:	7243496	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	25-Jun-2015 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z203315	**Contractor:**	7147
Tag:	A175784	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

DRAFT

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2015/06/06
Year Completed: 2015
Depth (m): 6.1
Latitude: 43.5562098059175
Longitude: -79.5868342262533
Path:

Bore Hole Information

Bore Hole ID: 1005439505
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 06-Jun-2015 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 614141.00
North83: 4823554.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1005616494
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 34
Mat2 Desc: TILL
Mat3:
Mat3 Desc:
Formation Top Depth: 3.299999952316284
Formation End Depth: 6.099999904632568
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1005616492
Layer: 1
Color: 2
General Color: GREY
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 0.20000000298023224
Formation End Depth UOM: m

DRAFT

Overburden and Bedrock Materials Interval

Formation ID: 1005616493
Layer: 2
Color: 6
General Color: BROWN
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.20000000298023224
Formation End Depth: 3.299999952316284
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005616503
Layer: 3
Plug From: 2.799999952316284
Plug To: 6.099999904632568
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005616501
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005616502
Layer: 2
Plug From: 0.30000001192092896
Plug To: 2.799999952316284
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1005616500
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1005616491
Casing No: 0
Comment:
Alt Name:

DRAFT

Construction Record - Casing

Casing ID:	1005616497
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	3.0999999046325684
Casing Diameter:	5.0
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1005616498
Layer:	1
Slot:	.10
Screen Top Depth:	3.0999999046325684
Screen End Depth:	6.099999904632568
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.300000190734863

Water Details

Water ID:	1005616496
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	3.700000047683716
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1005616495
Diameter:	11.399999618530273
Depth From:	0.0
Depth To:	6.099999904632568
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1005439505	***Tag No:***	A175784
Depth M:	6.1	***Contractor:***	7147
Year Completed:	2015	***Path:***	724\7243496.pdf
Well Completed Dt:	2015/06/06	***Latitude:***	43.5562098059175
Audit No:	Z203315	***Longitude:***	-79.5868342262533

---

28 ***1 of 1*** ***W/0.0*** ***78.8 / -1.00*** ***ON*** ***BORE***

Borehole ID:	649445	***Inclin FLG:***	No
OGF ID:	215549820	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	JUN-1969	***Municipality:***	
Static Water Level:	0.3	***Lot:***	
Primary Water Use:	Not Used	***Township:***	

DRAFT

Sec. Water Use:		**Latitude DD:**	43.556111
Total Depth m:	4	**Longitude DD:**	-79.586978
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614130
Drill Method:	Digging	**Northing:**	4823543
Orig Ground Elev m:	83.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	84.6		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218526999	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	3.4	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND,SILT. BROWN,DENSE.		

Geology Stratum ID:	218527000	**Mat Consistency:**	Stiff
Top Depth:	3.4	**Material Moisture:**	
Bottom Depth:	4	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,SILT,CLAY,SAND.GREY,STIFF, WATER STABLE AT 274.1 FEET.0000004400110029 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 201040 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

29 | ***1 of 1*** | ***W/0.0*** | ***78.8 / -1.00*** | ***ON*** | ***BORE***

Borehole ID:	649446	**Inclin FLG:**	No

OGF ID:	215549821	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JUN-1969	**Municipality:**	
Static Water Level:	0.2	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556205
Total Depth m:	5.9	**Longitude DD:**	-79.587285
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614105
Drill Method:	Power auger	**Northing:**	4823553
Orig Ground Elev m:	83.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	83.7		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218527001	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.5	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,GRAVEL.		

Geology Stratum ID:	218527003	**Mat Consistency:**	Hard
Top Depth:	5.5	**Material Moisture:**	
Bottom Depth:	5.9	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,SILT,CLAY,SAND.GREY,GLACIAL,HARD. 0001505000180075 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218527002	**Mat Consistency:**	Dense
Top Depth:	.5	**Material Moisture:**	
Bottom Depth:	5.5	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND,SILT. BROWN,VERY DENSE, WATER STABLE AT 274.2 FEET.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		

DRAFT

Source Details: File: TOR3.txt RecordID: 201050 NTS_Sheet: 30M12A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada
Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

30 | 1 of 1 | W/0.0 | 78.8 / -1.00 | ON | WWIS

Well ID: 7378962
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z348113
Tag: A312084
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:
Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 29-Jan-2021 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7644
Form Version: 7
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1008614901
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 18-Dec-2020 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 17
East83: 614095.00
North83: 4823542.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Links

Bore Hole ID: 1008614901
Depth M:
Year Completed: 2020
Well Completed Dt: 2020/12/18
Audit No: Z348113
Tag No: A312084
Contractor: 7644
Path:
Latitude: 43.5561088255329
Longitude: -79.5874060999537

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
31	1 of 1	W/0.0	78.9 / -0.96	Queenscorp (Mona) Inc. 1130 Mona Rd 1136 & 1138 Mona Road Mississauga ON M8Z 1L8	ECA

Approval No: 8719-CCUGYB
Approval Date: April 13, 2022
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
MOE District: Halton-Peel
City:
Longitude:
Latitude:
Geometry X: -8859862.6125000007
Geometry Y: 5397007.8787000021
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Queenscorp (Mona) Inc.
Address: 1130 Mona Rd 1136 & 1138 Mona Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3724-CCBT3E-14.pdf
PDF Site Location: 1130, 1136 and 1138 Mona Road
City of Mississauga, Regional Municipality of Peel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	1 of 1	ENE/0.0	79.8 / 0.00	ON	BORE

Borehole ID: 641025
OGF ID: 215541420
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: FEB-1970
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 2.1
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 80.2
Elev Reliabil Note:
DEM Ground Elev m: 79.9
Concession:
Location D:
Survey D:
Comments:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.558449
Longitude DD: -79.572252
UTM Zone: 17
Easting: 615315
Northing: 4823823
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218494478
Top Depth: 1.8
Bottom Depth: 2.1
Material Color: Brown
Material 1: Sand
Material 2: Clay
Material 3: Silt
Material 4:
Gsc Material Description:
Stratum Description: SAND,CLAY,SILT. BROWN,LACUSTRINE,AGE GLACIAL.
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: lacustrine

Geology Stratum ID: 218494476
Top Depth: .2
Bottom Depth: .8
Material Color: Dark
Material 1: Silt
Material 2: Sand
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:

DRAFT

Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SILT,SAND,CLAY. DARK,LACUSTRINE,AGE GLACIAL.		

Geology Stratum ID:	218494477	**Mat Consistency:**	
Top Depth:	.8	**Material Moisture:**	Moist
Bottom Depth:	1.8	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. GREY,LACUSTRINE,MOIST, AGE GLACIAL.		

Geology Stratum ID:	218494474	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218494475	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,GRAVEL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 089910 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
33	1 of 3	WSW/0.0	78.0 / -1.81	THE REGIONAL MUNICIPALITY OF PEEL 182 ROSEMERE RD MISSISSAUGA ON L5G 1S4	EASR

Approval No:	R-009-4112024343	**MOE District:**	Halton-Peel

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status: REGISTERED
Date: 2020-02-11
Record Type: EASR
Link Source: MOFA
Project Type: Water Taking - Construction Dewatering
Full Address:
Approval Type: EASR-Water Taking - Construction Dewatering
SWP Area Name: Credit Valley
PDF URL:
PDF Site Location:
Municipality: MISSISSAUGA
Latitude: 43.55388889
Longitude: -79.59027778
Geometry X: -8859949.1943
Geometry Y: 5396663.018600002

---

33 | 2 of 3 | WSW/0.0 | 78.0 / -1.81 | **The Regional Municipality of Peel**
182 Rosemere Rd
Mississauga ON L6T 4B9 | ECA

Approval No: 3043-BMVPEE
Approval Date: 2020-04-14
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: The Regional Municipality of Peel
Address: 182 Rosemere Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3116-BD4HZ3-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

---

33 | 3 of 3 | WSW/0.0 | 78.0 / -1.81 | **THE REGIONAL MUNICIPALITY OF PEEL**
182 ROSEMERE RD
MISSISSAUGA ON L5G 1S4 | EASR

Approval No: R-009-4112024343
Status: REGISTERED
Date: 2020-06-09
Record Type: EASR
Link Source: MOFA
Project Type: Water Taking - Construction Dewatering
Full Address:
Approval Type: EASR-Water Taking - Construction Dewatering
SWP Area Name: Credit Valley
PDF URL:
PDF Site Location:
MOE District: Halton-Peel
Municipality: MISSISSAUGA
Latitude: 43.55388889
Longitude: -79.59027778
Geometry X:
Geometry Y:

---

34 | 1 of 1 | ENE/0.0 | 79.8 / 0.00 | **PEEL, REGIONAL MUNICIPALITY OF**
HIAWATHA RD. & CUMBERLAND,
CUMBERLAND STREET PUMPING STATION
CUMBERLAND STREET PUMPING STATION
MISSISSAUGA CITY ON | SPL

Ref No: 170723
Site No:
Incident Dt: 7/26/1999
Year:
Incident Cause: PIPE/HOSE LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	21102
Nature of Impact:	Water course or lake	**Site Lot:**	
Receiving Medium:	LAND / WATER	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	WORKS
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	7/26/1999	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	EQUIPMENT FAILURE	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PEEL RM-30-40 L SEWAGE & GROUNDWATER MIXTURE SPILLTO LAND AND STORM DRAIN		
Contaminant Qty:			

35	1 of 1	ENE/0.0	79.8 / 0.00	**R.M. OF PEEL** **HIAWATHA PKWY. & CUMBERLAND DR** **MISSISSAUGA CITY ON**	CA

Certificate #:	8-3058-90-
Application Year:	90
Issue Date:	7/20/1990
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	STANDBY DIESEL GENERATOR
Contaminants:	
Emission Control:	No Controls

36	1 of 1	WSW/0.0	78.4 / -1.43	**ROSEMERE ROAD** **Mississauga ON**	WWIS

Well ID:	7287343	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	29-May-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z259485	**Contractor:**	7472
Tag:	A222975	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

DRAFT

Additional Detail(s) (Map)

Well Completed Date: 2017/04/12
Year Completed: 2017
Depth (m): 6.096
Latitude: 43.554114819236
Longitude: -79.5899906511522
Path:

Bore Hole Information

Bore Hole ID: 1006488361
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12-Apr-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 613890.00
North83: 4823317.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006761142
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2: 28
Mat2 Desc: SAND
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006761144
Layer: 3
Color: 2
General Color: GREY
Mat1: 06
Most Common Material: SILT
Mat2: 05
Mat2 Desc: CLAY
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 10.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Overburden and Bedrock

DRAFT

Materials Interval

Formation ID:	1006761143
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	4.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006761152
Layer:	2
Plug From:	9.0
Plug To:	20.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006761151
Layer:	1
Plug From:	0.0
Plug To:	9.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006761150
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1006761141
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006761147
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	10.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

DRAFT

Construction Record - Screen

Screen ID:	1006761148
Layer:	1
Slot:	10
Screen Top Depth:	10.0
Screen End Depth:	20.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.5

Water Details

Water ID:	1006761146
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006761145
Diameter:	6.0
Depth From:	0.0
Depth To:	20.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Links

Bore Hole ID:	1006488361	***Tag No:***	A222975
Depth M:	6.096	***Contractor:***	7472
Year Completed:	2017	***Path:***	728\7287343.pdf
Well Completed Dt:	2017/04/12	***Latitude:***	43.554114819236
Audit No:	Z259485	***Longitude:***	-79.5899906511522

---

37 ***1 of 1*** ***WSW/0.0*** ***78.9 / -0.91*** ***ROSEMERE ROAD Mississauga ON*** ***WWIS***

Well ID:	7287344	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	29-May-2017 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z259484	***Contractor:***	7472
Tag:	A222974	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

DRAFT

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2017/04/12
Year Completed: 2017
Depth (m): 13.716
Latitude: 43.5541059704189
Longitude: -79.5900032378216
Path:

Bore Hole Information

Bore Hole ID: 1006488364
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12-Apr-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 613889.00
North83: 4823316.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006761154
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2: 28
Mat2 Desc: SAND
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006761155
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 05
Mat2 Desc: CLAY
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 4.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

DRAFT

Overburden and Bedrock Materials Interval

Formation ID:	1006761156
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	10.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006761157
Layer:	4
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	91
Mat3 Desc:	WATER-BEARING
Formation Top Depth:	20.0
Formation End Depth:	45.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006761165
Layer:	1
Plug From:	0.0
Plug To:	34.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006761166
Layer:	2
Plug From:	34.0
Plug To:	45.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006761164
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	BORING

DRAFT

Pipe Information

Pipe ID: 1006761153
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006761161
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 35.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1006761162
Layer: 1
Slot: 010
Screen Top Depth: 35.0
Screen End Depth: 45.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.5

Water Details

Water ID: 1006761160
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1006761158
Diameter: 6.0
Depth From: 0.0
Depth To: 25.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1006761159
Diameter: 4.0
Depth From: 25.0
Depth To: 45.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1006488364 ***Tag No:*** A222974

DRAFT

Depth M:	13.716	**Contractor:**	7472
Year Completed:	2017	**Path:**	728\7287344.pdf
Well Completed Dt:	2017/04/12	**Latitude:**	43.5541059704189
Audit No:	Z259484	**Longitude:**	-79.5900032378216

38 | **1 of 1** | **ENE/0.0** | **78.2 / -1.66** | **76 CUMBERLAND DR Mississauga ON** | **WWIS**

Well ID:	7290465	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	18-Jul-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z248350	**Contractor:**	6607
Tag:	A202716	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY
Site Info:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2017/05/11
Year Completed: 2017
Depth (m): 9.1
Latitude: 43.5583643529205
Longitude: -79.5718273904466
Path:

Bore Hole Information

Bore Hole ID:	1006629960	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	615349.00
Code OB Desc:		**North83:**	4823814.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11-May-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1006694141

DRAFT

Layer: 2
Color: 2
General Color: GREY
Mat1: 06
Most Common Material: SILT
Mat2: 05
Mat2 Desc: CLAY
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 1.5
Formation End Depth: 4.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006694143
Layer: 4
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 28
Mat2 Desc: SAND
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 6.5
Formation End Depth: 9.100000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006694140
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 06
Mat2 Desc: SILT
Mat3: 05
Mat3 Desc: CLAY
Formation Top Depth: 0.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006694142
Layer: 3
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 28
Mat2 Desc: SAND
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 4.5
Formation End Depth: 6.5
Formation End Depth UOM: m

DRAFT

Annular Space/Abandonment Sealing Record

Plug ID:	1006694151
Layer:	2
Plug From:	0.30000001192092896
Plug To:	7.300000190734863
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006694150
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1006694149
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1006694139
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006694146
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	7.599999904632568
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006694147
Layer:	1
Slot:	10
Screen Top Depth:	7.599999904632568
Screen End Depth:	9.100000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.400000095367432

Water Details

DRAFT

Water ID: 1006694145
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006694144
Diameter: 21.0
Depth From: 0.0
Depth To: 9.100000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1006629960
Depth M: 9.1
Year Completed: 2017
Well Completed Dt: 2017/05/11
Audit No: Z248350
Tag No: A202716
Contractor: 6607
Path:
Latitude: 43.5583643529205
Longitude: -79.5718273904466

---

39 **1 of 1** **WSW/0.0** **77.2 / -2.61** **ON** **BORE**

Borehole ID: 833867
OGF ID: 215585998
Status: Decommissioned
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: 18-DEC-1959
Static Water Level: 1.7
Primary Water Use:
Sec. Water Use:
Total Depth m: 9.1
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Hollow stem auger
Orig Ground Elev m: 80.9
Elev Reliabil Note:
DEM Ground Elev m: 78
Concession:
Location D: CNR AT PORT CREDIT * CREEK DIVERSION
Survey D:
Comments:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.553731
Longitude DD: -79.590247
UTM Zone: 17
Easting: 613870
Northing: 4823274
Location Accuracy:
Accuracy: Within 10 metres

Borehole Geology Stratum

Geology Stratum ID: 6014691
Top Depth: 1.2
Bottom Depth: 4.3
Material Color: Grey
Material 1: Silt
Material 2: Sand
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: Medium to dense, grey, sandy silt **Note: Many records provided by the department have a truncated [Stratum Description] field.
Mat Consistency: Dense
Material Moisture:
Material Texture: Medium
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

DRAFT

Geology Stratum ID:	6014693	**Mat Consistency:**	Dense
Top Depth:	5.5	**Material Moisture:**	
Bottom Depth:	9.1	**Material Texture:**	Fine
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial

Gsc Material Description:

Stratum Description: Dense glacial till (grey, sandy silt with clay and fine gravel) **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	6014690	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:

Stratum Description: Medium to dense, brown, medium sand, seams of silt **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	6014692	**Mat Consistency:**	Dense
Top Depth:	4.3	**Material Moisture:**	
Bottom Depth:	5.5	**Material Texture:**	Medium
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial

Gsc Material Description:

Stratum Description: Medium to dense, glacial till (grey, silty clay with a pocket of soft, clayey silt from 3.81m to 4.57m **Note: Many records provided by the department have a truncated [Stratum Description] field.

---

40 **1 of 1** **W/0.9** **78.8 / -1.00** **ON** **BORE**

Borehole ID:	833844	**Inclin FLG:**	No
OGF ID:	215585975	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	20-JUN-1969	**Municipality:**	
Static Water Level:	2.7	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556394
Total Depth m:	4	**Longitude DD:**	-79.587164
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614114
Drill Method:	Hand auger	**Northing:**	4823574
Orig Ground Elev m:	83.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	82.4		
Concession:			
Location D:	CNR (PORT CREDIT) * GO TRANSIT PARKING LOT EXTENSION		
Survey D:			
Comments:	W.L measured in hand augered hole on June 21st, 1969		

Borehole Geology Stratum

Geology Stratum ID:	6014612	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	

DRAFT

Bottom Depth:	3.3	**Material Texture:**	Fine
Material Color:	Brown-Grey	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Silty fine sand, brown to grey, dense **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014613	**Mat Consistency:**	Very Stiff
Top Depth:	3.3	**Material Moisture:**	
Bottom Depth:	4	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Clayey silt, some sand and gravel, (glacial till), grey, very stiff **Note: Many records provided by the department have a truncated [Stratum Description] field.		

---

41 **1 of 1** **ENE/1.0** **79.8 / 0.00** **ON** **BORE**

Borehole ID:	641269	**Inclin FLG:**	No
OGF ID:	215541664	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1967	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.559548
Total Depth m:	2.6	**Longitude DD:**	-79.573711
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615195
Drill Method:	Power auger	**Northing:**	4823943
Orig Ground Elev m:	80.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	80		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218495472	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	0	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218495474	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	.4	**Material Texture:**	Coarse
Material Color:	Blue	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	

DRAFT

Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Organic	**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE,SILT,CLAY, ORGANIC. BLUE,LACUSTRINE,AGE GLACIAL.		

Geology Stratum ID:	218495473	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Clay	**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,SILT,CLAY.BROWN.		

Geology Stratum ID:	218495475	**Mat Consistency:**	
Top Depth:	.4	**Material Moisture:**	Moist
Bottom Depth:	1.2	**Material Texture:**	Coarse
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.		

Geology Stratum ID:	218495476	**Mat Consistency:**	
Top Depth:	1.2	**Material Moisture:**	
Bottom Depth:	2.6	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SAND,SILT. BROWN,LACUSTRINE,AGE GLACIAL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 092350 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	1 of 1	W/1.0	78.8 / -1.00	n/a Mississauga ON	EHS

Order No:	20180312162	**Nearest Intersection:**	

DRAFT

Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	04-APR-18	**Search Radius (km):**	.25
Date Received:	12-MAR-18	**X:**	-79.586293
Previous Site Name:		**Y:**	43.556143
Lot/Building Size:			

Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos

---

43 | **1 of 1** | **W/1.3** | **78.8 / -1.00** | **ON** | **BORE**

Borehole ID:	640930	**Inclin FLG:**	No
OGF ID:	215541325	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1965	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556266
Total Depth m:	2.1	**Longitude DD:**	-79.584931
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614295
Drill Method:	Power auger	**Northing:**	4823563
Orig Ground Elev m:	82.9	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	82.6		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494130	**Mat Consistency:**	
Top Depth:	.5	**Material Moisture:**	
Bottom Depth:	2.1	**Material Texture:**	Medium
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			

Stratum Description: SAND-MEDIUM,SILT, CLAY. ALLUVIAL,AGE POST-GLACIAL. GE **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	218494127	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	0	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			

Stratum Description: ASPHALT.

Geology Stratum ID:	218494128	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	

DRAFT

Material 3: **Geologic Period:**
Material 4: **Depositional Gen:** fill
Gsc Material Description:
Stratum Description: FILL,GRAVEL.

Geology Stratum ID: 218494129 **Mat Consistency:**
Top Depth: .2 **Material Moisture:**
Bottom Depth: .5 **Material Texture:** Medium
Material Color: Brown **Non Geo Mat Type:**
Material 1: Soil **Geologic Formation:**
Material 2: Sand **Geologic Group:**
Material 3: Silt **Geologic Period:**
Material 4: Clay **Depositional Gen:**
Gsc Material Description:
Stratum Description: SOIL,SAND-MEDIUM, SILT,CLAY. BROWN.

Source

Source Type: Data Survey **Source Appl:** Spatial/Tabular
Source Orig: Geological Survey of Canada **Source Iden:** 1
Source Date: 1956-1972 **Scale or Res:** Varies
Confidence: M **Horizontal:** NAD27
Observatio: **Verticalda:** Mean Average Sea Level
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 088960 NTS_Sheet: 30M12A
Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source List

Source Identifier: 1 **Horizontal Datum:** NAD27
Source Type: Data Survey **Vertical Datum:** Mean Average Sea Level
Source Date: 1956-1972 **Projection Name:** Universal Transverse Mercator
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

---

44 | **1 of 1** | **W/1.3** | **79.8 / 0.00** | **91 Park St E, Mississauga ON L5G4W1** | **EHS**

Order No: 20140106044 **Nearest Intersection:**
Status: C **Municipality:**
Report Type: Custom Report **Client Prov/State:** ON
Report Date: 15-JAN-14 **Search Radius (km):** .25
Date Received: 06-JAN-14 **X:** -79.583921
Previous Site Name: **Y:** 43.556359
Lot/Building Size:
Additional Info Ordered:

---

45 | **1 of 1** | **E/1.6** | **79.8 / 0.00** | **ON** | **BORE**

Borehole ID: 641142 **Inclin FLG:** No
OGF ID: 215541537 **SP Status:** Initial Entry
Status: **Surv Elev:** No
Type: Borehole **Piezometer:** No
Use: Geotechnical/Geological Investigation **Primary Name:**
Completion Date: FEB-1970 **Municipality:**
Static Water Level: **Lot:**
Primary Water Use: Not Used **Township:**
Sec. Water Use: **Latitude DD:** 43.556973
Total Depth m: 2.6 **Longitude DD:** -79.57662
Depth Ref: Ground Surface **UTM Zone:** 17

DRAFT

Depth Elev:		**Easting:**	614965
Drill Method:	Power auger	**Northing:**	4823653
Orig Ground Elev m:	80.1	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	80		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494939	**Mat Consistency:**	
Top Depth:	.2	**Material Moisture:**	
Bottom Depth:	2.6	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. BROWN,LACUSTRINE,AGE GLACIAL. ,SILT **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218494938	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Gravel	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Clay	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRAVEL,SILT,SAND, CLAY. CRUSHED.		

Geology Stratum ID:	218494937	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 091080 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

DRAFT

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

46 **1 of 1** **W/1.8** **79.8 / 0.00** **ON** **BORE**

Borehole ID:	646207	**Inclin FLG:**	No
OGF ID:	215546590	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	MAY-1968	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556706
Total Depth m:	8.2	**Longitude DD:**	-79.584178
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614355
Drill Method:	Diamond Drill	**Northing:**	4823613
Orig Ground Elev m:	80.7	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	82.2		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218514032	**Mat Consistency:**	
Top Depth:	6.7	**Material Moisture:**	
Bottom Depth:	8.2	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Shale	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	Ordovician
Material 4:		**Depositional Gen:**	marine
Gsc Material Description:			

Stratum Description: SHALE. GREY,MARINE,AGE ORDOVICIAN. 012 000300420003502 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	218514031	**Mat Consistency:**	Hard
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:	6.7	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			

Stratum Description: TILL,CLAY. GREY,GLACIAL,HARD,AGE GLACIAL.

Geology Stratum ID:	218514029	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			

Stratum Description: SAND,SILT. BROWN.

Geology Stratum ID:	218514030	**Mat Consistency:**	Dense

DRAFT

Top Depth:	.9	**Material Moisture:**	
Bottom Depth:	2.4	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial

Gsc Material Description:
Stratum Description: TILL,SILT,CLAY, GRAVEL. BROWN,GLACIAL,DENSE, AGE GLACIAL.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR2.txt RecordID: 142290 NTS_Sheet: 30M12A
Confiden 1: Reliable information but incomplete.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

47	1 of 1	W/1.8	79.8 / 0.00	30 Queen St. East Mississauga ON	WWIS

Well ID:	7363633	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	07-Aug-2020 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	2DEKHQS6	**Contractor:**	7609
Tag:	A283539	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

Bore Hole Information

Bore Hole ID:	1008371680	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614337.00
Code OB Desc:		**North83:**	4823610.00
Open Hole:		**Org CS:**	UTM83

DRAFT

Cluster Kind:
Date Completed: 27-Jul-2020 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1008371794
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2: 28
Mat2 Desc: SAND
Mat3: 77
Mat3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 1.5199999809265137
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1008371796
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 06
Mat2 Desc: SILT
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 3.049999952316284
Formation End Depth: 5.179999828338623
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1008371795
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 1.5199999809265137
Formation End Depth: 3.049999952316284
Formation End Depth UOM: m

Annular Space/Abandonment

DRAFT

Sealing Record

Plug ID: 1008371857
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1008371885
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1008371886
Layer: 2
Plug From: 0.30000001192092896
Plug To: 1.8300000429153442
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1008371887
Layer: 3
Plug From: 1.8300000429153442
Plug To: 5.179999828338623
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1008371758
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1008371728
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008371819
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 2.130000114440918
Casing Diameter: 5.0
Casing Diameter UOM: cm
Casing Depth UOM: m

DRAFT

Construction Record - Screen

Screen ID:	1008371829
Layer:	1
Slot:	010
Screen Top Depth:	2.130000114440918
Screen End Depth:	5.179999828338623
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.0

Results of Well Yield Testing

Pump Test ID:	1008371729
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1008371842
Diameter:	21.0
Depth From:	0.0
Depth To:	5.179999828338623
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1008371680	***Tag No:***	A283539
Depth M:	5.18	***Contractor:***	7609
Year Completed:	2020	***Path:***	736\7363633.pdf
Well Completed Dt:	2020/07/27	***Latitude:***	43.5566838709673
Audit No:	2DEKHQS6	***Longitude:***	-79.5843965000502

48	***1 of 1***	***W/2.0***	***78.8 / -1.05***	***30 Queen St East Mississauga ON***	***WWIS***

Well ID:	7363632	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	07-Aug-2020 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	5NZ4J5JW	***Contractor:***	7609
Tag:	A283540	***Form Version:***	9
Constructn Method:		***Owner:***	

DRAFT

Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

Bore Hole Information

Bore Hole ID:	1008371677	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614314.00
Code OB Desc:		***North83:***	4823565.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	27-Jul-2020 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008371791
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	1.5199999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1008371793
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Mat2 Desc:	SILT
Mat3:	11
Mat3 Desc:	GRAVEL
Formation Top Depth:	3.049999952316284
Formation End Depth:	4.570000171661377
Formation End Depth UOM:	m

DRAFT

Overburden and Bedrock Materials Interval

Formation ID:	1008371792
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.5199999809265137
Formation End Depth:	3.049999952316284
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1008371883
Layer:	2
Plug From:	0.30000001192092896
Plug To:	1.5199999809265137
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1008371856
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1008371882
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1008371884
Layer:	3
Plug From:	1.5199999809265137
Plug To:	4.570000171661377
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1008371757
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

DRAFT

Pipe Information

Pipe ID:	1008371726
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008371818
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	1.5199999809265137
Casing Diameter:	5.0
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1008371828
Layer:	1
Slot:	010
Screen Top Depth:	1.5199999809265137
Screen End Depth:	4.570000171661377
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.0

Results of Well Yield Testing

Pump Test ID:	1008371727
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1008371841
Diameter:	21.0
Depth From:	0.0
Depth To:	4.570000171661377
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

DRAFT

Bore Hole ID:	1008371677	**Tag No:**	A283540
Depth M:	4.57	**Contractor:**	7609
Year Completed:	2020	**Path:**	736\7363632.pdf
Well Completed Dt:	2020/07/27	**Latitude:**	43.5562823303872
Audit No:	5NZ4J5JW	**Longitude:**	-79.5846906593135

49 **1 of 1** **W/2.3** **78.8 / -1.02** **ON** **BORE**

Borehole ID:	833866	**Inclin FLG:**	No
OGF ID:	215585997	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	18-DEC-1959	**Municipality:**	
Static Water Level:	2.1	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.555774
Total Depth m:	5	**Longitude DD:**	-79.588021
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614046
Drill Method:	Hollow stem auger	**Northing:**	4823504
Orig Ground Elev m:	82.2	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	79.6		
Concession:			
Location D:	CNR AT PORT CREDIT * CREEK DIVERSION		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	6014689	**Mat Consistency:**	Dense
Top Depth:	3.7	**Material Moisture:**	
Bottom Depth:	5	**Material Texture:**	Fine
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:	Silt	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Dense, glacial till (grey, silty clay with fine gravel) **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014688	**Mat Consistency:**	Dense
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:	3.7	**Material Texture:**	Fine
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Dense, grey, fine sand with silt **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014687	**Mat Consistency:**	
Top Depth:	1.2	**Material Moisture:**	
Bottom Depth:	2.4	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	organic material	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	

DRAFT

Gsc Material Description:
Stratum Description: Medium brown, silty sand mixed with organic matter above 1.77m **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	6014685	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Topsoil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Topsoil **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	6014686	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	Fine
Material Color:	Brown	**Non Geo Mat Type:**	Fill-Misc
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Fill material (medium, brown, fine sand) **Note: Many records provided by the department have a truncated [Stratum Description] field.

---

50 ***1 of 1*** ***WSW/3.2*** ***78.0 / -1.88*** ***ON*** ***BORE***

Borehole ID:	833869	**Inclin FLG:**	No
OGF ID:	215586000	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	18-DEC-1959	**Municipality:**	
Static Water Level:	1.5	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.55468
Total Depth m:	3.7	**Longitude DD:**	-79.589111
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	613960
Drill Method:	Hollow stem auger	**Northing:**	4823381
Orig Ground Elev m:	79.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	78.2		
Concession:			
Location D:	CNR AT PORT CREDIT * CREEK DIVERSION		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	6014701	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	3	**Material Texture:**	Fine to Medium
Material Color:	Grey-Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Medium grey, brown, fine to medium sand **Note: Many records provided by the department have a truncated [Stratum Description] field.

DRAFT

Geology Stratum ID: 6014700
Top Depth: 0
Bottom Depth: .3
Material Color:
Material 1: Topsoil
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: Topsoil **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 6014702
Top Depth: 3
Bottom Depth: 3.7
Material Color: Grey
Material 1: Till
Material 2: Clay
Material 3: Gravel
Material 4: Silt
Gsc Material Description:
Stratum Description: Glacial till (grey, silty clay with fine gravel) **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture:
Material Texture: Fine
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: glacial

---

51 **1 of 1** **W/3.8** **79.2 / -0.62** **ON** **BORE**

Borehole ID: 640915
OGF ID: 215541310
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JAN-1965
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 2.1
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 83.7
Elev Reliabil Note:
DEM Ground Elev m: 83.6
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.556548
Longitude DD: -79.585915
UTM Zone: 17
Easting: 614215
Northing: 4823593
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218494057
Top Depth: .3
Bottom Depth: 1.5
Material Color: Brown
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SAND,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Geology Stratum ID: 218494058
Top Depth: 1.5
Bottom Depth: 2.1

Mat Consistency:
Material Moisture:
Material Texture: Medium

DRAFT

Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial

Gsc Material Description:
Stratum Description: SAND-MEDIUM,SILT, CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. CI **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	218494056	**Mat Consistency:**	
Top Depth:	.2	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial

Gsc Material Description:
Stratum Description: SAND,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.

Geology Stratum ID:	218494055	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill

Gsc Material Description:
Stratum Description: FILL,GRAVEL. BROWN.

Geology Stratum ID:	218494054	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	0	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: ASPHALT.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 088810 NTS_Sheet: 30M12A
Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
52	1 of 1	W/3.9	78.8 / -1.00	24 Ann St Mississauga ON L5G 3G1	EHS

Order No:	20180426226	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	04-MAY-18	**Search Radius (km):**	.25
Date Received:	26-APR-18	**X:**	-79.585342
Previous Site Name:		**Y:**	43.556205
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
53	1 of 1	NW/4.1	79.8 / 0.00	lot 14 con 1 ON	WWIS

Well ID:	4907921	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Not Used	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Observation Wells	**Date Received:**	10-Nov-1994 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	148111	**Contractor:**	1839
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	014
Depth to Bedrock:		**Concession:**	01
Well Depth:		**Concession Name:**	CIR R
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/490\4907921.pdf

Additional Detail(s) (Map)

Well Completed Date:	1994/10/07
Year Completed:	1994
Depth (m):	7.0104
Latitude:	43.5566465844012
Longitude:	-79.5813888300656
Path:	490\4907921.pdf

Bore Hole Information

Bore Hole ID:	10322480	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614580.00
Code OB Desc:		**North83:**	4823610.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	3
Date Completed:	07-Oct-1994 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	gps
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

DRAFT

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	932060894
Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	66
Mat2 Desc:	DENSE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	7.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932060893
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	34
Most Common Material:	TILL
Mat2:	06
Mat2 Desc:	SILT
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	0.0
Formation End Depth:	7.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932060895
Layer:	3
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	66
Mat2 Desc:	DENSE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15.0
Formation End Depth:	23.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933170608
Layer:	3
Plug From:	10.0
Plug To:	11.0
Plug Depth UOM:	ft

DRAFT

Annular Space/Abandonment Sealing Record

Plug ID: 933170606
Layer: 1
Plug From: 0.0
Plug To: 2.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933170607
Layer: 2
Plug From: 2.0
Plug To: 3.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 964907921
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10871050
Casing No: 1
Comment:
Alt Name:

Construction Record - Screen

Screen ID: 933360382
Layer: 1
Slot: 040
Screen Top Depth: 13.0
Screen End Depth: 23.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Water Details

Water ID: 933796035
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 18.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10322480
Depth M: 7.0104
Year Completed: 1994
Tag No:
Contractor: 1839
Path: 490\4907921.pdf

DRAFT

Well Completed Dt:	1994/10/07	**Latitude:**	43.5566465844012
Audit No:	148111	**Longitude:**	-79.5813888300656

54 **1 of 1** **WSW/4.1** **76.8 / -3.09** **ON** **BORE**

Borehole ID:	649423	**Inclin FLG:**	No
OGF ID:	215549798	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	DEC-1959	**Municipality:**	
Static Water Level:	0.2	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.553718
Total Depth m:	9.1	**Longitude DD:**	-79.590067
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	613885
Drill Method:	Diamond Drill	**Northing:**	4823273
Orig Ground Elev m:	80.9	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	76.7		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218526913	**Mat Consistency:**	Dense
Top Depth:	1.2	**Material Moisture:**	
Bottom Depth:	4.3	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SILT,SAND. GREY,DENSE, WATER STABLE AT 264.9 FEET.		

Geology Stratum ID:	218526914	**Mat Consistency:**	Dense
Top Depth:	4.3	**Material Moisture:**	
Bottom Depth:	9.1	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT,SAND.GREY,VERY DENSE. 017 012 00040031001400 60BEDROCK.		

Geology Stratum ID:	218526912	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND,SILT. BROWN,DENSE.		

Source

DRAFT

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 200820 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

55 | ***1 of 5*** | ***NNE/4.4*** | ***79.8 / 0.00*** | ***STEPHENSONS RENT ALL LTD.***
160 LAKESHORE RD. E.
MISSISSAUGA ON L5G 1G1 | ***GEN***

Generator No:	ON0467637	**Status:**	
SIC Code:	9911	**Co Admin:**	
SIC Description:	IND. MACH. RENTAL	**Choice of Contact:**	
Approval Years:	88	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

---

55 | ***2 of 5*** | ***NNE/4.4*** | ***79.8 / 0.00*** | ***STEPHENSON'S RENT-ALL LTD.***
160 LAKESHORE RD. EAST, MISSISSAUGA C/O
55 WESTMORE DR.
REXDALE ON L5G 1G1 | ***GEN***

Generator No:	ON0467637	**Status:**	
SIC Code:	9911	**Co Admin:**	
SIC Description:	IND. MACH. RENTAL	**Choice of Contact:**	
Approval Years:	89,90	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	221

DRAFT

Waste Class Desc: LIGHT FUELS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

55 ***3 of 5*** ***NNE/4.4*** ***79.8 / 0.00*** ***STEPHENSON'S RENT-ALL INC.***
160 LAKESHORE ROAD EAST
MISSISSAUGA ON L5G 1G1 ***GEN***

Generator No: ON0467637
SIC Code: 9911
SIC Description: IND. MACH. RENTAL
Approval Years: 92,93,95,96,97,98,99,00,01,03
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

55 ***4 of 5*** ***NNE/4.4*** ***79.8 / 0.00*** ***STEPHENSON'S RENT-ALL LTD. 36-457***
160 LAKESHORE RD. EAST, MISSISSAUGA C/O
55 WESTMORE DR.
REXDALE ON L5G 1G1 ***GEN***

Generator No: ON0467637
SIC Code: 9911
SIC Description: IND. MACH. RENTAL
Approval Years: 94
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 251

DRAFT

Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

55 | **5 of 5** | **NNE/4.4** | **79.8 / 0.00** | **STEPHENSON'S RENT-ALL INC.**
160 LAKESHORE ROAD EAST
MISSISSAUGA ON L5G 1G1 | **GEN**

Generator No: ON0467637
SIC Code:
SIC Description:
Approval Years: 04
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

---

56 | **1 of 1** | **NNE/4.7** | **79.8 / 0.00** | **160 Lakeshore Rd E**
Mississauga ON L5G1G1 | **EHS**

Order No: 20180308086
Status: C
Report Type: Standard Report
Report Date: 14-MAR-18
Date Received: 08-MAR-18
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.580759
Y: 43.556844

---

57 | **1 of 1** | **W/4.9** | **79.8 / 0.00** | **High Street, Park Street East & Hurontario Street**
Mississauga ON | **CA**

Certificate #: 0657-4SGM38
Application Year: 00
Issue Date: 12/29/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: Watermain and appurtenances to be constructed in conjunction with Project no. 00-1310 in the City of Mississauga, on High Street, Park Street East and Hurontario Street.
Contaminants:
Emission Control:

---

58 | **1 of 1** | **W/6.3** | **78.8 / -1.00** | **ON** | **BORE**

Borehole ID: 833908
OGF ID: 215586039
Status: Decommissioned
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: 03-FEB-1977
Static Water Level: 0.9
Primary Water Use:
Sec. Water Use:
Total Depth m: 6.1
Depth Ref: Ground Surface
Depth Elev:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.556047
Longitude DD: -79.586813
UTM Zone: 17
Easting: 614143

DRAFT

Drill Method:	Hollow stem auger	**Northing:**	4823536
Orig Ground Elev m:	82.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	83.3		
Concession:			
Location D:	PORT CREDIT GO STATION * PLATFORM SHELTER		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	6014843	**Mat Consistency:**	Compact
Top Depth:	1.1	**Material Moisture:**	
Bottom Depth:	2.7	**Material Texture:**	Fine
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Silty fine sand, compact to very dense **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014844	**Mat Consistency:**	Very Stiff
Top Depth:	2.7	**Material Moisture:**	
Bottom Depth:	6.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Het. mix of clayey silt, sand and gravel (glacial till), very stiff to hard **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014842	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	Fill-Misc
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:	organic material	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Clayey silt, sand and few gravel, traces of organics - fill **Note: Many records provided by the department have a truncated [Stratum Description] field.		

59	1 of 1	W/6.7	79.8 / 0.00	15 HURNOTARIP STREET MISSISSAUGA ON	WWIS

Well ID:	7104773	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	01-May-2008 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z70743	**Contractor:**	7082
Tag:	A057183	**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	

DRAFT

Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7104773.pdf

Additional Detail(s) (Map)

Well Completed Date:	2008/04/22
Year Completed:	2008
Depth (m):	
Latitude:	43.5563884173103
Longitude:	-79.5830786741158
Path:	710\7104773.pdf

Bore Hole Information

Bore Hole ID:	1001585176	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614444.00
Code OB Desc:		***North83:***	4823579.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	3
Date Completed:	22-Apr-2008 00:00:00	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1001628743
Layer:	1
Plug From:	0.0
Plug To:	7.159999847412109
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1001628747
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	AUGERING

Pipe Information

Pipe ID:	1001628740
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

DRAFT

Casing ID: 1001628745
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001628746
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water Details

Water ID: 1001628744
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001628742
Diameter: 15.239999771118164
Depth From: 0.0
Depth To: 7.159999847412109
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1001585176
Depth M:
Year Completed: 2008
Well Completed Dt: 2008/04/22
Audit No: Z70743
Tag No: A057183
Contractor: 7082
Path: 710\7104773.pdf
Latitude: 43.5563884173103
Longitude: -79.5830786741158

---

60 ***1 of 1*** ***W/7.1*** ***79.7 / -0.17*** ***ON*** ***BORE***

Borehole ID: 639273
OGF ID: 215539670
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JAN-1965
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 1.2
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.556259
Longitude DD: -79.584436

DRAFT

Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	614335
Drill Method:	Power auger	***Northing:***	4823563
Orig Ground Elev m:	82.8	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	82.5		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218487720	***Mat Consistency:***	
Top Depth:	.3	***Material Moisture:***	
Bottom Depth:	.5	***Material Texture:***	Medium
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Fill	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:	Clay	***Depositional Gen:***	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND-MEDIUM, SILT,CLAY. BROWN.		

Geology Stratum ID:	218487722	***Mat Consistency:***	
Top Depth:	.6	***Material Moisture:***	Wet
Bottom Depth:	1.2	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:		***Depositional Gen:***	alluvial
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY. BROWN,ALLUVIAL,WET. GLACIAL.		

Geology Stratum ID:	218487718	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	0	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218487719	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.3	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Fill	***Geologic Formation:***	
Material 2:	Gravel	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	fill
Gsc Material Description:			
Stratum Description:	FILL,GRAVEL.		

Geology Stratum ID:	218487721	***Mat Consistency:***	
Top Depth:	.5	***Material Moisture:***	
Bottom Depth:	.6	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Soil	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:	Clay	***Depositional Gen:***	

DRAFT

Gsc Material Description:
Stratum Description: SOIL,SAND,SILT,CLAY.BROWN.

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	M	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 072360 NTS_Sheet: 30M12A
Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

---

61 ***1 of 1*** ***W/7.9*** ***78.8 / -1.00*** ***GO STATION PARKING LOT PORT CREDIT ON*** ***WWIS***

Well ID:	7307873	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	15-Mar-2018 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z266884	***Contractor:***	6607
Tag:	A241364	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	

Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2018/01/10
Year Completed: 2018
Depth (m): 1.61544
Latitude: 43.5564891574472
Longitude: -79.5868524583307
Path:

Bore Hole Information

Bore Hole ID:	1007003609	***Elevation:***	
DP2BR:		***Elevrc:***	

DRAFT

Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614139.00
Code OB Desc:		***North83:***	4823585.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10-Jan-2018 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007230193
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	4.5
Formation End Depth:	5.300000190734863
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007230191
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0.0
Formation End Depth:	1.5
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007230192
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	1.5
Formation End Depth:	4.5

DRAFT

Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007230200
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007230201
Layer: 2
Plug From: 0.30000001192092896
Plug To: 1.5
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007230199
Method Construction Code: 6
Method Construction: Boring
Other Method Construction: DIAMOND

Pipe Information

Pipe ID: 1007230190
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007230196
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.5
Casing Diameter: 5.099999904632568
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1007230197
Layer: 1
Slot: 10
Screen Top Depth: 1.5
Screen End Depth: 5.300000190734863
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 6.610000133514404

Water Details

DRAFT

Water ID: 1007230195
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1007230194
Diameter: 21.0
Depth From: 0.0
Depth To: 5.300000190734863
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1007003609
Depth M: 1.61544
Year Completed: 2018
Well Completed Dt: 2018/01/10
Audit No: Z266884
Tag No: A241364
Contractor: 6607
Path: 730\7307873.pdf
Latitude: 43.5564891574472
Longitude: -79.5868524583307

---

62 | 1 of 1 | W/8.0 | 78.8 / -1.00 | ON | BORE

Borehole ID: 833841
OGF ID: 215585972
Status: Decommissioned
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: 20-JUN-1969
Static Water Level: 2.4
Primary Water Use:
Sec. Water Use:
Total Depth m: 5.9
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 83.8
Elev Reliabil Note:
DEM Ground Elev m: 82.6
Concession:
Location D: CNR (PORT CREDIT) * GO TRANSIT PARKING LOT EXTENSION
Survey D:
Comments:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.556559
Longitude DD: -79.587408
UTM Zone: 17
Easting: 614094
Northing: 4823592
Location Accuracy:
Accuracy: Within 10 metres

Borehole Geology Stratum

Geology Stratum ID: 6014602
Top Depth: 0
Bottom Depth: .1
Material Color:
Material 1:
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: Asphalt **Note: Many records provided by the department have a truncated [Stratum Description] field.
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type: Asphalt
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

DRAFT

Geology Stratum ID:	6014603	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.5	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	Fill-Misc
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Sand & gravel (fill) **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014604	**Mat Consistency:**	Compact
Top Depth:	.5	**Material Moisture:**	
Bottom Depth:	5.5	**Material Texture:**	Fine
Material Color:	Brown-Grey	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Silty fine sand, brown to grey, compact to very dense **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014605	**Mat Consistency:**	Hard
Top Depth:	5.5	**Material Moisture:**	
Bottom Depth:	5.9	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Clayey silt with some sand and gravel, glacial till, grey, hard **Note: Many records provided by the department have a truncated [Stratum Description] field.		

---

63 **1 of 1** **WSW/8.3** **78.2 / -1.69** **ON** **BORE**

Borehole ID:	649424	**Inclin FLG:**	No
OGF ID:	215549799	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1959	**Municipality:**	
Static Water Level:	0.2	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.554784
Total Depth m:	3.7	**Longitude DD:**	-79.588928
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	613975
Drill Method:	Hand auger	**Northing:**	4823393
Orig Ground Elev m:	79.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.1		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218526915	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	

DRAFT

Material Color:		**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL.		

Geology Stratum ID:	218526916	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND. BROWN, WATER STABLE AT 260.5 FEET.		

Geology Stratum ID:	218526917	**Mat Consistency:**	
Top Depth:	3	**Material Moisture:**	
Bottom Depth:	3.7	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT. GREY. TILL **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 200830 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

64 ***1 of 1*** ***W/9.0*** ***79.6 / -0.27*** ***ON*** ***BORE***

Borehole ID:	640931	**Inclin FLG:**	No
OGF ID:	215541326	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1965	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556633

DRAFT

Total Depth m:	2.4	***Longitude DD:***	-79.585542
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	614245
Drill Method:	Power auger	***Northing:***	4823603
Orig Ground Elev m:	83.8	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	83.7		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494132	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.3	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Fill	***Geologic Formation:***	
Material 2:	Gravel	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	fill
Gsc Material Description:			
Stratum Description:	FILL,GRAVEL.		

Geology Stratum ID:	218494136	***Mat Consistency:***	
Top Depth:	1.5	***Material Moisture:***	
Bottom Depth:	2.4	***Material Texture:***	Medium
Material Color:		***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:		***Depositional Gen:***	alluvial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,CLAY, SILT. ALLUVIAL,AGE POST-GLACIAL.		

Geology Stratum ID:	218494131	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	0	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218494134	***Mat Consistency:***	
Top Depth:	.6	***Material Moisture:***	
Bottom Depth:	.9	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:		***Depositional Gen:***	alluvial
Gsc Material Description:			
Stratum Description:	CLAY,SAND,SILT. ALLUVIAL,AGE POST-GLACIAL.		

Geology Stratum ID:	218494133	***Mat Consistency:***	
Top Depth:	.3	***Material Moisture:***	
Bottom Depth:	.6	***Material Texture:***	Medium
Material Color:		***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	

DRAFT

Material 4: **Depositional Gen:** alluvial
Gsc Material Description:
Stratum Description: SAND-MEDIUM,SILT, CLAY. ALLUVIAL,AGE POST-GLACIAL.

Geology Stratum ID: 218494135
Top Depth: .9
Bottom Depth: 1.5
Material Color:
Material 1: Clay
Material 2: Sand
Material 3: Silt
Material 4:
Gsc Material Description:
Stratum Description: CLAY,SAND,SILT. ALLUVIAL,AGE POST-GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 088970 NTS_Sheet: 30M12A
Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

65 | **1 of 1** | **W/9.1** | **79.8 / 0.00** | **91 Park St E, Mississauga ON L5G4W1** | **EHS**

Order No: 20180404020
Status: C
Report Type: RSC Report (Urban)
Report Date: 10-APR-18
Date Received: 04-APR-18
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality: Mississauga
Client Prov/State: ON
Search Radius (km): .3
X: -79.583872
Y: 43.556293

---

66 | **1 of 1** | **W/9.2** | **79.6 / -0.23** | **30 Queen St East, Mississauga ON** | **WWIS**

Well ID: 7363631
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 4XE7ZMP4
Tag: A283618
Constructn Method:
Elevation (m):
Elevatn Reliabilty:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 07-Aug-2020 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7609
Form Version: 9
Owner:
County: PEEL
Lot:

DRAFT

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1008371674
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 24-Jul-2020 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 17
East83: 614264.00
North83: 4823606.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1008371790
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 06
Mat2 Desc: SILT
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 3.049999952316284
Formation End Depth: 4.570000171661377
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1008371788
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2: 28
Mat2 Desc: SAND
Mat3: 77
Mat3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 1.5199999809265137
Formation End Depth UOM: m

Overburden and Bedrock

DRAFT

Materials Interval

Formation ID:	1008371789
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.5199999809265137
Formation End Depth:	3.049999952316284
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1008371879
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1008371881
Layer:	3
Plug From:	1.5199999809265137
Plug To:	4.570000171661377
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1008371855
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1008371880
Layer:	2
Plug From:	0.30000001192092896
Plug To:	1.5199999809265137
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1008371756
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

Pipe Information

DRAFT

Pipe ID: 1008371724
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008371817
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.5199999809265137
Casing Diameter: 5.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1008371827
Layer: 1
Slot: 010
Screen Top Depth: 1.5199999809265137
Screen End Depth: 4.570000171661377
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.0

Results of Well Yield Testing

Pump Test ID: 1008371725
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1008371840
Diameter: 21.0
Depth From: 0.0
Depth To: 4.570000171661377
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1008371674 ***Tag No:*** A283618
Depth M: 4.57 ***Contractor:*** 7609

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Year Completed:	2020	**Path:**	736\7363631.pdf
Well Completed Dt:	2020/07/24	**Latitude:**	43.5566590509865
Audit No:	4XE7ZMP4	**Longitude:**	-79.585300882414

67 | **1 of 1** | **W/9.3** | **80.0 / 0.20** | **1142 Mona Road Mississauga ON** | **EHS**

Order No:	20170501137	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	RSC Report (Urban)	**Client Prov/State:**	ON
Report Date:	05-MAY-17	**Search Radius (km):**	.3
Date Received:	01-MAY-17	**X:**	-79.589328
Previous Site Name:		**Y:**	43.555052
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

68 | **1 of 1** | **W/9.4** | **79.8 / 0.00** | **OSHAWA FOODS 25 HURONTARIO STREET RETAIL STORE MISSISSAUGA CITY ON** | **SPL**

Ref No:	123765	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	2/19/1996	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	PIPE/HOSE LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	21102
Nature of Impact:	Air Pollution	**Site Lot:**	
Receiving Medium:	AIR	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2/20/1996	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	EQUIPMENT FAILURE	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	HURONTARIO PRICE CHOPPER-34 KG FREON R-22 TO ATM, LINE LEAK,REPAIRED.		
Contaminant Qty:			

69 | **1 of 1** | **E/10.3** | **76.7 / -3.15** | **Carlis Place Mississauga ON** | **WWIS**

Well ID:	7380746	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	22-Feb-2021 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	M5VIHHBH	**Contractor:**	7472
Tag:	A315035	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	

DRAFT

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY
Site Info:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1008573500
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 29-Jan-2021 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 17
East83: 614972.00
North83: 4823498.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1008573605
Layer: 1
Color: 6
General Color: BROWN
Mat1: 34
Most Common Material: TILL
Mat2:
Mat2 Desc:
Mat3: 77
Mat3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008573672
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008573688
Layer: 1
Plug From: 0.0
Plug To: 4.0
Plug Depth UOM: ft

DRAFT

Annular Space/Abandonment Sealing Record

Plug ID:	1008573689
Layer:	2
Plug From:	4.0
Plug To:	10.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1008573573
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

Pipe Information

Pipe ID:	1008573544
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008573627
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	5.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008573642
Layer:	1
Slot:	10
Screen Top Depth:	5.0
Screen End Depth:	10.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.5

Results of Well Yield Testing

Pump Test ID:	1008573545
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	

DRAFT

Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1008573657
Diameter: 7.5
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1008573500
Depth M: 3.048
Year Completed: 2021
Well Completed Dt: 2021/01/29
Audit No: M5VIHHBH
Tag No: A315035
Contractor: 7472
Path: 738\7380746.pdf
Latitude: 43.5555781082194
Longitude: -79.5765606990084

---

70 **1 of 1** **ENE/10.4** **79.8 / 0.00** ***ON*** **BORE**

Borehole ID: 641259
OGF ID: 215541654
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: NOV-1967
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 2
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 80.2
Elev Reliabil Note:
DEM Ground Elev m: 80
Concession:
Location D:
Survey D:
Comments:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.558859
Longitude DD: -79.572613
UTM Zone: 17
Easting: 615285
Northing: 4823868
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218495424
Top Depth: 0
Bottom Depth: .2
Material Color: Brown
Material 1: Fill
Material 2: Sand
Material 3: Silt
Material 4: Gravel
Gsc Material Description:
Stratum Description: FILL,SAND,SILT, GRAVEL. BROWN.
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: fill

Geology Stratum ID: 218495427
Top Depth: 1
Bottom Depth: 2
Mat Consistency: Dense
Material Moisture:
Material Texture:

DRAFT

Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Till	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:	Sand	***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT,SAND.GREY,BROWN,GLACIAL,DENSE, AGE GLACIAL. AGE **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218495425	***Mat Consistency:***	
Top Depth:	.2	***Material Moisture:***	Moist
Bottom Depth:	.5	***Material Texture:***	
Material Color:	Blue	***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:		***Depositional Gen:***	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. BLUE,LACUSTRINE,MOIST, AGE GLACIAL.		

Geology Stratum ID:	218495423	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	0	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218495426	***Mat Consistency:***	Stiff
Top Depth:	.5	***Material Moisture:***	
Bottom Depth:	1	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:		***Depositional Gen:***	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. BROWN,LACUSTRINE,STIFF, AGE GLACIAL.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	M	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 092250 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
71	1 of 2	ENE/10.5	79.8 / 0.00	2152856 Ontario Ltd. 181 Lakeshore Rd E Port Credit ON L5G 1G2	GEN

Generator No: ON2943244
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
71	2 of 2	ENE/10.5	79.8 / 0.00	Focal Point Research Inc. 181 Lakeshore Rd. E. Mississauga ON L5G 1G2	GEN

Generator No: ON6198712
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 261 L
Waste Class Desc: Pharmaceuticals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
72	1 of 1	W/11.0	78.8 / -1.00	PORT CREDIT GO STATION PORT CREDIT ON	WWIS

Well ID: 7310439
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z266994
Tag: A232662
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 17-Apr-2018 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 7
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2018/02/03
Year Completed: 2018

DRAFT

Depth (m): 12.2
Latitude: 43.5564922174492
Longitude: -79.5871000029076
Path:

Bore Hole Information

Bore Hole ID:	1007036930	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614119.00
Code OB Desc:		**North83:**	4823585.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	03-Feb-2018 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1007268326
Layer: 3
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 17
Mat2 Desc: SHALE
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 3.200000047683716
Formation End Depth: 7.599999904632568
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007268324
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 01
Mat3 Desc: FILL
Formation Top Depth: 0.0
Formation End Depth: 0.699999988079071
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007268327
Layer: 4

DRAFT

Color:	7
General Color:	RED
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	26
Mat3 Desc:	ROCK
Formation Top Depth:	7.599999904632568
Formation End Depth:	12.199999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007268325
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Mat2 Desc:	SILT
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0.699999988079071
Formation End Depth:	3.200000047683716
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007268336
Layer:	2
Plug From:	0.30000001192092896
Plug To:	7.599999904632568
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007268337
Layer:	3
Plug From:	7.599999904632568
Plug To:	8.899999618530273
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007268335
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1007268334
Method Construction Code:	6
Method Construction:	Boring

DRAFT

Other Method Construction: DIAMOND

Pipe Information

Pipe ID: 1007268323
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007268331
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 9.199999809265137
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007268332
Layer: 1
Slot: 10
Screen Top Depth: 9.199999809265137
Screen End Depth: 12.199999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1007268330
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1007268329
Diameter: 9.600000381469727
Depth From: 7.599999904632568
Depth To: 12.199999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1007268328
Diameter: 21.0
Depth From: 0.0
Depth To: 7.599999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Links

Bore Hole ID:	1007036930	***Tag No:***	A232662
Depth M:	12.2	***Contractor:***	6607
Year Completed:	2018	***Path:***	731\7310439.pdf
Well Completed Dt:	2018/02/03	***Latitude:***	43.5564922174492
Audit No:	Z266994	***Longitude:***	-79.5871000029076

---

73 ***1 of 4*** ***NE/11.6*** ***80.8 / 1.00*** ***SPL***

PETRO-CANADA
PETRO CANADA SERVICE STATION 200 LAKESHORE BLVD. (AT SOUTHDOWN RD.)
SERVICE STATION
MISSISSAUGA CITY ON

Ref No:	51385	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	5/29/1991	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	CONTAINER OVERFLOW	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	21102
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	5/29/1991	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: PETRO CANADA SERVICE STN-15L GASOLINE TO ASPHALT DUE TO OV/FILLING.
Contaminant Qty:

---

73 ***2 of 4*** ***NE/11.6*** ***80.8 / 1.00*** ***GEN***

Petro-Canada
200 Lakeshore Road West
Mississauga ON L5H 1G6

Generator No:	ON1631901	***Status:***	
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	02,03,04	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	221
Waste Class Desc:	LIGHT FUELS

---

73 ***3 of 4*** ***NE/11.6*** ***80.8 / 1.00*** ***EHS***

200 Lakeshore Rd East
Mississauga ON L5G 1G3

Order No:	20100204006	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Report Date:	2/10/2010	**Search Radius (km):**	0.5
Date Received:	2/4/2010	**X:**	-79.579335
Previous Site Name:		**Y:**	43.55777
Lot/Building Size:			
Additional Info Ordered:			

---

73 | **4 of 4** | **NE/11.6** | **80.8 / 1.00** | **200 Lakeshore Road East Mississauga ON** | **EHS**

Order No:	20170419103	**Nearest Intersection:**	
Status:	C	**Municipality:**	Mississauga
Report Type:	RSC Report (Urban)	**Client Prov/State:**	ON
Report Date:	25-APR-17	**Search Radius (km):**	.3
Date Received:	19-APR-17	**X:**	-79.579667
Previous Site Name:		**Y:**	43.5577
Lot/Building Size:			
Additional Info Ordered:			

---

74 | **1 of 1** | **NE/12.7** | **79.8 / 0.00** | **ON** | **WWIS**

Well ID:	7295291	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	25-Sep-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	C37174	**Contractor:**	7464
Tag:	A208405	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2017/03/14
Year Completed:	2017
Depth (m):	
Latitude:	43.5568602499926
Longitude:	-79.5804676315231
Path:	

Bore Hole Information

Bore Hole ID:	1006732093	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614654.00
Code OB Desc:		**North83:**	4823635.00
Open Hole:		**Org CS:**	UTM83

DRAFT

Cluster Kind:		**UTMRC:**	4
Date Completed:	14-Mar-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Links

Bore Hole ID:	1006732093	**Tag No:**	A208405
Depth M:		**Contractor:**	7464
Year Completed:	2017	**Path:**	
Well Completed Dt:	2017/03/14	**Latitude:**	43.5568602499926
Audit No:	C37174	**Longitude:**	-79.5804676315231

---

75 | ***1 of 1*** | ***NE/12.7*** | ***80.6 / 0.78*** | ***200 Lakeshore Rd E Mississauga ON L5G1G3*** | ***EHS***

Order No:	20150525018	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	29-MAY-15	**Search Radius (km):**	.25
Date Received:	25-MAY-15	**X:**	-79.579454
Previous Site Name:		**Y:**	43.557854
Lot/Building Size:			
Additional Info Ordered:	City Directory; Aerial Photos		

---

76 | ***1 of 1*** | ***NE/12.8*** | ***79.8 / 0.00*** | ***lot 14 con 1 ON*** | ***WWIS***

Well ID:	4907923	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Not Used	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Observation Wells	**Date Received:**	10-Nov-1994 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	148124	**Contractor:**	1839
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	014
Depth to Bedrock:		**Concession:**	01
Well Depth:		**Concession Name:**	CIR R
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/490\4907923.pdf

Additional Detail(s) (Map)

Well Completed Date:	1994/10/07
Year Completed:	1994
Depth (m):	7.0104
Latitude:	43.55684286192

DRAFT

Longitude:	-79.5805175632882
Path:	490\4907923.pdf

Bore Hole Information

Bore Hole ID:	10322482	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614650.00
Code OB Desc:		**North83:**	4823633.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	3
Date Completed:	07-Oct-1994 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	gps
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932060900
Layer:	2
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	14.0
Formation End Depth:	23.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932060899
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	34
Most Common Material:	TILL
Mat2:	06
Mat2 Desc:	SILT
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	0.0
Formation End Depth:	14.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933170612
Layer:	2
Plug From:	2.0
Plug To:	3.0

DRAFT

Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933170611
Layer: 1
Plug From: 0.0
Plug To: 2.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933170613
Layer: 3
Plug From: 15.0
Plug To: 16.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 964907923
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10871052
Casing No: 1
Comment:
Alt Name:

Construction Record - Screen

Screen ID: 933360384
Layer: 1
Slot: 040
Screen Top Depth: 18.0
Screen End Depth: 23.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Water Details

Water ID: 933796037
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 22.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10322482 ***Tag No:***
Depth M: 7.0104 ***Contractor:*** 1839

DRAFT

Year Completed:	1994	**Path:**	490\4907923.pdf
Well Completed Dt:	1994/10/07	**Latitude:**	43.55684286192
Audit No:	148124	**Longitude:**	-79.5805175632882

77 **1 of 1** **W/12.8** **79.8 / 0.00** **ON** **BORE**

Borehole ID:	649447	**Inclin FLG:**	No
OGF ID:	215549822	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1959	**Municipality:**	
Static Water Level:	0.1	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556333
Total Depth m:	6.8	**Longitude DD:**	-79.583073
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614445
Drill Method:	Diamond Drill	**Northing:**	4823573
Orig Ground Elev m:	81.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	82.2		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218527006	**Mat Consistency:**	
Top Depth:	5.3	**Material Moisture:**	
Bottom Depth:	6.8	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL. 010 00000040CLAY **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218527005	**Mat Consistency:**	
Top Depth:	2.7	**Material Moisture:**	
Bottom Depth:	5.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY,SILT. WATER STABLE AT 268.2 FEET.		

Geology Stratum ID:	218527004	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	2.7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND. DENSE.		

DRAFT

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	H	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR3.txt RecordID: 201060 NTS_Sheet: 30M12A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

---

78 | ***1 of 1*** | ***E/13.0*** | ***79.8 / 0.00*** | ***35 OAKWOOD AVE SOUTH MISSISSAUGA ON*** | ***HINC***

External File Num:	FS INC 0706-02913
Fuel Occurrence Type:	Vapour Release
Date of Occurrence:	5/31/2007
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Private Dwelling
Service Interruptions:	Yes
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:Yes Human Factors:Yes
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Peel
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

---

79 | ***1 of 1*** | ***W/13.5*** | ***79.0 / -0.81*** | ***Port Credit Mississauga ON*** | ***EHS***

Order No:	20200612061	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	17-JUN-20	***Search Radius (km):***	.25
Date Received:	12-JUN-20	***X:***	-79.5849211
Previous Site Name:		***Y:***	43.5567367
Lot/Building Size:			
Additional Info Ordered:			

---

80 | ***1 of 1*** | ***W/15.7*** | ***78.8 / -1.00*** | ***PORT CREDIT GO STATION PORT CREDIT ON*** | ***WWIS***

DRAFT

Well ID:	7321737	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	07-Nov-2018 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z266906	**Contractor:**	6607
Tag:	A232817	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2018/01/19
Year Completed:	2018
Depth (m):	15.2
Latitude:	43.5565370718042
Longitude:	-79.5870865738659
Path:	

Bore Hole Information

Bore Hole ID:	1007306909	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614120.00
Code OB Desc:		**North83:**	4823590.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	19-Jan-2018 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007599592
Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	26
Mat2 Desc:	ROCK
Mat3:	73

DRAFT

Mat3 Desc:	HARD
Formation Top Depth:	9.100000381469727
Formation End Depth:	15.199999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007599590
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	1.5
Formation End Depth:	6.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007599589
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007599591
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	6.0
Formation End Depth:	9.100000381469727
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007599600
Layer:	1
Plug From:	0.0

DRAFT

Plug To: 0.30000001192092896
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007599601
Layer: 2
Plug From: 0.30000001192092896
Plug To: 11.800000190734863
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1007599599
Method Construction Code: 6
Method Construction: Boring
Other Method Construction: DIAMOND

Pipe Information

Pipe ID: 1007599588
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007599596
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 12.100000381469727
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007599597
Layer: 1
Slot: 10
Screen Top Depth: 12.100000381469727
Screen End Depth: 15.199999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1007599595
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

DRAFT

Hole Diameter

Hole ID:	1007599593
Diameter:	21.0
Depth From:	0.0
Depth To:	9.100000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1007599594
Diameter:	9.600000381469727
Depth From:	9.100000381469727
Depth To:	15.199999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1007306909	***Tag No:***	A232817
Depth M:	15.2	***Contractor:***	6607
Year Completed:	2018	***Path:***	732\7321737.pdf
Well Completed Dt:	2018/01/19	***Latitude:***	43.5565370718042
Audit No:	Z266906	***Longitude:***	-79.5870865738659

---

81 ***1 of 2*** ***WNW/16.0*** ***79.8 / 0.00*** ***Greenspoon Specialty Contracting Ltd.; 20 Rosewood Avenue construction site<UNOFFICIAL> Mississauga ON*** ***SPL***

Ref No:	2855-86JJTA	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Tank (Underground) Leak	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:	41	***Nearest Watercourse:***	
Contaminant Name:	DIESEL FUEL AND WATER MIXTURE	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	6/18/2010	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Land Spills
Incident Reason:	Equipment/Vehicles	***Source Type:***	
Site Name:	construction site<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Greenspoon Specialty: UST 500 L diesel & water to ground		
Contaminant Qty:	500 L		

---

81 ***2 of 2*** ***WNW/16.0*** ***79.8 / 0.00*** ***20 Rosewood Avenue, Mississauga ON*** ***INC***

Incident No:	410004	***Any Health Impact:***	Unknown
Incident ID:	2561688	***Any Enviro Impact:***	Yes

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance No:		**Service Interrupted:**	No
Status Code:	Causal Analysis Complete	**Was Prop Damaged:**	No
Attribute Category:	FS-Perform L1 Incident Insp	**Reside App. Type:**	
Context:		**Commer App. Type:**	
Date of Occurrence:	2010/06/18 00:00:00	**Indus App. Type:**	
Time of Occurrence:	09:30:00	**Institut App. Type:**	
Incident Created On:		**Venting Type:**	
Instance Creation Dt:		**Vent Conn Mater:**	
Instance Install Dt:		**Vent Chimney Mater:**	
Occur Insp Start Date:	2010/06/18 00:00:00	**Pipeline Type:**	
Approx Quant Rel:	unknown	**Pipeline Involved:**	
Tank Capacity:		**Pipe Material:**	
Fuels Occur Type:	Discovery of a Petroleum Product	**Depth Ground Cover:**	
Fuel Type Involved:	Fuel Oil	**Regulator Location:**	
Enforcement Policy:	NULL	**Regulator Type:**	
Prc Escalation Req:	NULL	**Operation Pressure:**	
Tank Material Type:		**Liquid Prop Make:**	
Tank Storage Type:		**Liquid Prop Model:**	
Tank Location Type:		**Liquid Prop Serial No:**	
Pump Flow Rate Cap:		**Liquid Prop Notes:**	
Task No:	2942614	**Equipment Type:**	
Notes:		**Equipment Model:**	
Drainage System:	Unknown	**Serial No:**	
Sub Surface Contam.:	20 to 30 feet maybe more	**Cylinder Capacity:**	
Aff Prop Use Water:	Unknown	**Cylinder Cap Units:**	
Contam. Migrated:	Unknown	**Cylinder Mat Type:**	
Contact Natural Env:	Yes	**Near Body of Water:**	No

Incident Location: 20 Rosewood Avenue, Mississauga - Discovery of Product
Occurence Narrative: UST hit by backhoe
Operation Type Involved: Construction Site (excluding pipeline strike)
Item:
Item Description:
Device Installed Location:

82	1 of 1	ENE/16.5	79.8 / 0.00	23 HIAWATHA PARKWAY, MISSISSAUGA ON	INC

Incident No:	1504630	**Any Health Impact:**	No
Incident ID:		**Any Enviro Impact:**	No
Instance No:		**Service Interrupted:**	Yes
Status Code:		**Was Prop Damaged:**	Yes
Attribute Category:	FS-Perform L1 Incident Insp	**Reside App. Type:**	
Context:		**Commer App. Type:**	
Date of Occurrence:	2014/10/18 00:00:00	**Indus App. Type:**	
Time of Occurrence:	09:00:00	**Institut App. Type:**	
Incident Created On:		**Venting Type:**	
Instance Creation Dt:		**Vent Conn Mater:**	
Instance Install Dt:		**Vent Chimney Mater:**	
Occur Insp Start Date:	2014/10/22 00:00:00	**Pipeline Type:**	
Approx Quant Rel:		**Pipeline Involved:**	
Tank Capacity:		**Pipe Material:**	
Fuels Occur Type:	Fire	**Depth Ground Cover:**	
Fuel Type Involved:	Natural Gas	**Regulator Location:**	
Enforcement Policy:	NULL	**Regulator Type:**	
Prc Escalation Req:	NULL	**Operation Pressure:**	
Tank Material Type:		**Liquid Prop Make:**	
Tank Storage Type:		**Liquid Prop Model:**	
Tank Location Type:		**Liquid Prop Serial No:**	
Pump Flow Rate Cap:		**Liquid Prop Notes:**	
Task No:	5226732	**Equipment Type:**	
Notes:		**Equipment Model:**	
Drainage System:		**Serial No:**	
Sub Surface Contam.:		**Cylinder Capacity:**	
Aff Prop Use Water:		**Cylinder Cap Units:**	

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contam. Migrated:		**Cylinder Mat Type:**	
Contact Natural Env:		**Near Body of Water:**	
Incident Location:	23 HIAWATHA PARKWAY, MISSISSAUGA - FIRE		
Occurence Narrative:	Scene not reported on day of incident and scene comprimised		
Operation Type Involved:	Private Dwelling		
Item:			
Item Description:			
Device Installed Location:			

---

83 | **1 of 1** | **W/16.8** | **78.8 / -1.00** | **Park St E and Hurontario St Mississauga ON** | **EHS**

Order No:	20140828058	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	RSC Premium Package (Urban)	**Client Prov/State:**	ON
Report Date:	05-SEP-14	**Search Radius (km):**	.3
Date Received:	28-AUG-14	**X:**	-79.58656
Previous Site Name:		**Y:**	43.5566
Lot/Building Size:			
Additional Info Ordered:			

---

84 | **1 of 1** | **N/16.8** | **79.8 / 0.00** | **158 LAKESHORE RD E Mississauga ON** | **WWIS**

Well ID:	7284531	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned Monitoring and Test Hole	**Date Received:**	07-Apr-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z246111	**Contractor:**	7147
Tag:	A195287	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2017/03/28
Year Completed:	2017
Depth (m):	
Latitude:	43.55663328148
Longitude:	-79.5810424789028
Path:	

Bore Hole Information

Bore Hole ID:	1006376769	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17

DRAFT

Code OB:		**East83:**	614608.00
Code OB Desc:		**North83:**	4823609.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	28-Mar-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006633038
Layer:	
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006633044
Layer:	1
Plug From:	0.0
Plug To:	2.4000000953674316
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006633045
Layer:	2
Plug From:	
Plug To:	2.4000000953674316
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1006633043
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1006633037
Casing No:	0
Comment:	
Alt Name:	

DRAFT

Construction Record - Casing

Casing ID:	1006633041
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	0.8999999761581421
Casing Diameter:	5.0
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006633042
Layer:	1
Slot:	.01
Screen Top Depth:	0.8999999761581421
Screen End Depth:	2.4000000953674316
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.300000190734863

Water Details

Water ID:	1006633040
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	1.5
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1006633039
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1006376769	***Tag No:***	A195287
Depth M:		***Contractor:***	7147
Year Completed:	2017	***Path:***	728\7284531.pdf
Well Completed Dt:	2017/03/28	***Latitude:***	43.55663328148
Audit No:	Z246111	***Longitude:***	-79.5810424789028

85 ***1 of 1*** ***W/17.9*** ***78.8 / -1.00*** ***PORT CREDIT GO STATION*** ***PORT CREDIT ON*** ***WWIS***

Well ID:	7321813	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	07-Nov-2018 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	

DRAFT

Audit No:	Z266905	**Contractor:**	6607
Tag:	A232825	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2018/01/18
Year Completed:	2018
Depth (m):	15.2
Latitude:	43.5559635526998
Longitude:	-79.5865799874411
Path:	

Bore Hole Information

Bore Hole ID:	1007307137	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614162.00
Code OB Desc:		**North83:**	4823527.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	18-Jan-2018 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007605510
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	1.5
Formation End Depth:	6.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

DRAFT

Formation ID:	1007605511
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	6.0
Formation End Depth:	9.100000381469727
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007605509
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007605512
Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	26
Mat2 Desc:	ROCK
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	9.100000381469727
Formation End Depth:	15.199999809265137
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007605521
Layer:	2
Plug From:	0.30000001192092896
Plug To:	11.800000190734863
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007605520

DRAFT

Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1007605519
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1007605508
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007605516
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 12.100000381469727
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007605517
Layer: 1
Slot: 10
Screen Top Depth: 12.100000381469727
Screen End Depth: 15.199999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1007605515
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1007605514
Diameter: 9.600000381469727
Depth From: 9.100000381469727
Depth To: 15.199999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

DRAFT

Hole Diameter

Hole ID:	1007605513
Diameter:	21.0
Depth From:	0.0
Depth To:	9.100000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1007307137	***Tag No:***	A232825
Depth M:	15.2	***Contractor:***	6607
Year Completed:	2018	***Path:***	732\7321813.pdf
Well Completed Dt:	2018/01/18	***Latitude:***	43.5559635526998
Audit No:	Z266905	***Longitude:***	-79.5865799874411

86 ***1 of 1*** ***ENE/18.5*** ***79.8 / 0.00*** ***ON*** ***BORE***

Borehole ID:	641051	***Inclin FLG:***	No
OGF ID:	215541446	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	NOV-1969	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.559725
Total Depth m:	2.7	***Longitude DD:***	-79.573522
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	615210
Drill Method:	Power auger	***Northing:***	4823963
Orig Ground Elev m:	80.6	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	79.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494590	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218494592	***Mat Consistency:***	
Top Depth:	.2	***Material Moisture:***	
Bottom Depth:	.4	***Material Texture:***	Coarse
Material Color:	Black	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Organic	***Geologic Period:***	

DRAFT

Material 4: **Depositional Gen:** beach
Gsc Material Description:
Stratum Description: SAND-MEDIUM TO COARSE,SILT,ORGANIC.BLACK,BEACH,AGE POST-GLACIAL.

Geology Stratum ID: 218494593
Top Depth: .4
Bottom Depth: 1.2
Material Color: Brown
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,ALLUVIAL,WET, AGE POST-GLACIAL.

Mat Consistency:
Material Moisture: Wet
Material Texture: Coarse
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Geology Stratum ID: 218494591
Top Depth: .1
Bottom Depth: .2
Material Color: Brown
Material 1: Fill
Material 2: Gravel
Material 3: Sand
Material 4:
Gsc Material Description:
Stratum Description: FILL,GRAVEL,SAND. BROWN.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: fill

Geology Stratum ID: 218494594
Top Depth: 1.2
Bottom Depth: 2.7
Material Color: Brown
Material 1: Clay
Material 2: Silt
Material 3: Sand
Material 4:
Gsc Material Description:
Stratum Description: CLAY,SILT,SAND. BROWN,ALLUVIAL, AGE POST-GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 090170 NTS_Sheet: 30M12A
Confiden 1: Reliable information but incomplete.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

87 | ***1 of 1*** | ***W/18.7*** | ***78.8 / -1.00*** | ***ON*** | ***BORE***

Borehole ID: 833902
OGF ID: 215586033
Status: Decommissioned

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	25-MAY-1972	**Municipality:**	
Static Water Level:	4.1	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.555883
Total Depth m:	5.9	**Longitude DD:**	-79.587374
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614098
Drill Method:	Boring	**Northing:**	4823517
Orig Ground Elev m:	85.5	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	84.2		
Concession:			
Location D:	PORT CREDIT GO STATION * PLATFORM SHELTER		
Survey D:			
Comments:	W.L measured on May 26, 1972		

Borehole Geology Stratum

Geology Stratum ID:	6014830	**Mat Consistency:**	Hard
Top Depth:	5.8	**Material Moisture:**	
Bottom Depth:	5.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Glacial till - hard **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014828	**Mat Consistency:**	Loose
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	4.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	Fill-Misc
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:	Coal fragments	**Geologic Period:**	
Material 4:	Wood Fragments	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Asphalt top 0.03m, sand and gravel (occasional pieces of coal and wood), (fill), loose to compact **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014829	**Mat Consistency:**	Very Dense
Top Depth:	4.1	**Material Moisture:**	
Bottom Depth:	5.8	**Material Texture:**	Fine
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Silty fine sand, brown, very dense, boulder **Note: Many records provided by the department have a truncated [Stratum Description] field.		

88	***1 of 1***	***W/18.9***	***79.9 / 0.03***	***1155 VESTA DRIVE PORT CREDIT ON***	***WWIS***

Well ID:	7306886	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	08-Mar-2018 00:00:00
Water Type:		**Selected Flag:**	TRUE

DRAFT

Casing Material:		**Abandonment Rec:**	
Audit No:	Z255682	**Contractor:**	6607
Tag:	A241261	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/730\7306886.pdf

Additional Detail(s) (Map)

Well Completed Date: 2017/12/08
Year Completed: 2017
Depth (m): 12.5
Latitude: 43.5566992737001
Longitude: -79.5878256340761
Path: 730\7306886.pdf

Bore Hole Information

Bore Hole ID:	1006995692	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614060.00
Code OB Desc:		**North83:**	4823607.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	08-Dec-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 1007194415
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: m

Overburden and Bedrock

DRAFT

Materials Interval

Formation ID:	1007194416
Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Mat2 Desc:	SAND
Mat3:	11
Mat3 Desc:	GRAVEL
Formation Top Depth:	3.0
Formation End Depth:	9.399999618530273
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007194417
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	9.399999618530273
Formation End Depth:	12.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007194426
Layer:	2
Plug From:	0.30000001192092896
Plug To:	9.100000381469727
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007194425
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1007194424
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	DIAMOND

Pipe Information

Pipe ID:	1007194414

DRAFT

Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007194421
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 9.399999618530273
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007194422
Layer: 1
Slot: 10
Screen Top Depth: 9.399999618530273
Screen End Depth: 12.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1007194420
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1007194419
Diameter: 9.600000381469727
Depth From: 9.399999618530273
Depth To: 12.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1007194418
Diameter: 21.0
Depth From: 0.0
Depth To: 9.399999618530273
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1006995692
Depth M: 12.5
Year Completed: 2017
Well Completed Dt: 2017/12/08
Tag No: A241261
Contractor: 6607
Path: 730\7306886.pdf
Latitude: 43.5566992737001

DRAFT

Audit No:	Z255682	**Longitude:**	-79.5878256340761

89 **1 of 1** **WSW/20.8** **76.9 / -2.97** **ON** **BORE**

Borehole ID:	833868	**Inclin FLG:**	No
OGF ID:	215585999	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	27-JAN-1960	**Municipality:**	
Static Water Level:	1.2	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.553408
Total Depth m:	10	**Longitude DD:**	-79.590354
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	613862
Drill Method:	Hollow stem auger	**Northing:**	4823238
Orig Ground Elev m:	80.7	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	78		
Concession:			
Location D:	CNR AT PORT CREDIT * CREEK DIVERSION		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	6014695	**Mat Consistency:**	Dense
Top Depth:	.9	**Material Moisture:**	
Bottom Depth:	3	**Material Texture:**	Fine
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Medium to dense, light brown, fine sand **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014699	**Mat Consistency:**	
Top Depth:	8.7	**Material Moisture:**	
Bottom Depth:	10	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:	Shale	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Bedrock - grey, limestone interbedded layers of 0.02m to 0.05m of grey shale **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014697	**Mat Consistency:**	Dense
Top Depth:	4.9	**Material Moisture:**	
Bottom Depth:	7.6	**Material Texture:**	Fine to Medium
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Dense, glacial till (grey, sandy clay with silt and fine to medium gravel) **Note: Many records provided by the department have a truncated [Stratum Description] field.		

DRAFT

Geology Stratum ID:	6014696	**Mat Consistency:**	
Top Depth:	3	**Material Moisture:**	
Bottom Depth:	4.9	**Material Texture:**	Medium
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Medium, grey, clayey silt **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014694	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	Fine
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Topsoil	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Topsoil mixed with brown fine sand **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014698	**Mat Consistency:**	Dense
Top Depth:	7.6	**Material Moisture:**	
Bottom Depth:	8.7	**Material Texture:**	Medium
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:	Bedrock	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Dense, glacial till of grey, medium, sand and gravel, fragments of bedrock **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
90	1 of 7	W/22.4	79.8 / 0.00	PIONEER PETROLEUMS ATTN LOLA LAURIE 150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	PRT

Location ID:	9134
Type:	retail
Expiry Date:	1994-03-31
Capacity (L):	0
Licence #:	0048041004

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
90	2 of 7	W/22.4	79.8 / 0.00	PIONEER PETROLEUMS ATTN LOLA LAURIE 150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	PRT

Location ID:	9134
Type:	retail
Expiry Date:	1995-07-31
Capacity (L):	2000
Licence #:	0033408001

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
90	3 of 7	W/22.4	79.8 / 0.00	PIONEER PETROLEUMS ATTN LOLA LAURIE 150 LAKESHORE RD E MISSISSAUGA ON L5G1E9	PRT

Location ID:	9134
Type:	retail

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Expiry Date: 1996-03-31
Capacity (L): 118000
Licence #: 0056875001

---

90 | **4 of 7** | **W/22.4** | **79.8 / 0.00** | **150 LAKESHORE RD. E.**
PORT CREDIT ON | **PRT**

Location ID: 11953
Type: retail
Expiry Date:
Capacity (L):
Licence #:

---

90 | **5 of 7** | **W/22.4** | **79.8 / 0.00** | **PIONEER PETROLEUMS MANAGEMENT INC****
150 LAKESHORE RD E
MISSISSAUGA ON L5G 1E9 | **FSTH**

License Issue Date: 3/1/2002
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Split Serve

--Details--
Status: Removed
Year of Installation: 1978
Corrosion Protection:
Capacity: 22700
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Removed
Year of Installation: 1978
Corrosion Protection:
Capacity: 22700
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Removed
Year of Installation: 1978
Corrosion Protection:
Capacity: 22700
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Removed
Year of Installation: 1978
Corrosion Protection:
Capacity: 22700
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Removed
Year of Installation: 1978
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Removed
Year of Installation: 1978
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
90	6 of 7	W/22.4	79.8 / 0.00	PIONEER PETROLEUMS MANAGEMENT INC** 150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	FSTH

License Issue Date: 3/1/2002
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Split Serve

--Details--
Status: Active
Year of Installation: 1995
Corrosion Protection:
Capacity: 20000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Status: Active
Year of Installation: 1995
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 1995
Corrosion Protection:
Capacity: 29000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 1995
Corrosion Protection:
Capacity: 29000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
90	7 of 7	W/22.4	79.8 / 0.00	150 Lakeshore Rd E Mississauga ON L5G 1E9	EHS

Order No: 20100709004
Status: C
Report Type: Standard Report
Report Date: 7/19/2010
Date Received: 7/9/2010
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; Title Searches

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.581351
Y: 43.556086

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
91	1 of 1	W/24.0	79.7 / -0.18	ON	BORE

Borehole ID: 649443
OGF ID: 215549818
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: DEC-1959
Static Water Level: 0.2
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 4.9

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.555671
Longitude DD: -79.587793

DRAFT

Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	614065
Drill Method:	Diamond Drill	***Northing:***	4823493
Orig Ground Elev m:	82.2	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	83.4		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218526994	***Mat Consistency:***	Compact
Top Depth:	1.2	***Material Moisture:***	
Bottom Depth:	2.4	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Organic	***Geologic Period:***	
Material 4:		***Depositional Gen:***	organic
Gsc Material Description:			
Stratum Description:	SAND,SILT,ORGANIC. BROWN,COMPACT.		

Geology Stratum ID:	218526995	***Mat Consistency:***	Dense
Top Depth:	2.4	***Material Moisture:***	
Bottom Depth:	3.7	***Material Texture:***	
Material Color:	Grey	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SAND,SILT. GREY,VERY DENSE.		

Geology Stratum ID:	218526993	***Mat Consistency:***	
Top Depth:	.3	***Material Moisture:***	
Bottom Depth:	1.2	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Fill	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND. BROWN, WATER STABLE AT 269.1 FEET.		

Geology Stratum ID:	218526996	***Mat Consistency:***	Dense
Top Depth:	3.7	***Material Moisture:***	
Bottom Depth:	4.9	***Material Texture:***	
Material Color:	Grey	***Non Geo Mat Type:***	
Material 1:	Till	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:	Gravel	***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT, GRAVEL. GREY,DENSE. 021 013 008 0004001300080050001 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218526992	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.3	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Soil	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	

DRAFT

Material 4: ***Depositional Gen:***
Gsc Material Description:
Stratum Description: SOIL.

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: H
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR3.txt RecordID: 201020 NTS_Sheet: 30M12A
Confiden 1: Logged by professional. Exact and complete description of material and properties.
Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada
Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

92 ***1 of 1*** ***W/24.2*** ***79.8 / -0.09*** ***ON*** ***BORE***

Borehole ID: 646209
OGF ID: 215546592
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: MAY-1968
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 3.5
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Diamond Drill
Orig Ground Elev m: 81.4
Elev Reliabil Note:
DEM Ground Elev m: 83.8
Concession:
Location D:
Survey D:
Comments:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.556809
Longitude DD: -79.585166
UTM Zone: 17
Easting: 614275
Northing: 4823623
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218514036
Top Depth: 0
Bottom Depth: 2.3
Material Color: Brown
Material 1: Silt
Material 2: Sand
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SILT,SAND,CLAY. BROWN,GLACIAL,DENSE, AGE GLACIAL.
Mat Consistency: Dense
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: glacial

Geology Stratum ID: 218514037
Mat Consistency: Hard

DRAFT

Top Depth:	2.3	**Material Moisture:**	
Bottom Depth:	3.5	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			

Stratum Description: TILL,CLAY. GREY,GLACIAL,HARD,AGE GLACIAL. 028 012 0000002600075044 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR2.txt RecordID: 142310 NTS_Sheet: 30M12A
Confiden 1: Reliable information but incomplete.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

---

93 | ***1 of 1*** | ***W/24.5*** | ***78.8 / -1.00*** | ***22 ANN ST. MISSISSAUGA ON*** | ***WWIS***

Well ID:	7341861	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	16-Sep-2019 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	LBX2P5WQ	**Contractor:**	6607
Tag:	A264691	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info: MW 19-3

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/734\7341861.pdf

Additional Detail(s) (Map)

Well Completed Date: 2019/08/22
Year Completed: 2019
Depth (m): 8.2296

DRAFT

Latitude:	43.556027876375
Longitude:	-79.5852289863524
Path:	734\7341861.pdf

Bore Hole Information

Bore Hole ID:	1007643258	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614271.00
Code OB Desc:		**North83:**	4823536.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	22-Aug-2019 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007643894
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	34
Most Common Material:	TILL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007643895
Layer:	2
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15.0
Formation End Depth:	27.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1007644464
Layer:	1
Plug From:	0.0

DRAFT

Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007644310
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007644465
Layer: 2
Plug From: 1.0
Plug To: 16.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007643598
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1007643462
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007644028
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 17.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1007644108
Layer: 1
Slot: 10
Screen Top Depth: 17.0
Screen End Depth: 27.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.5

DRAFT

Results of Well Yield Testing

Pump Test ID:	1007643463
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1007644210
Diameter:	8.0
Depth From:	0.0
Depth To:	27.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Links

Bore Hole ID:	1007643258	***Tag No:***	A264691
Depth M:	8.2296	***Contractor:***	6607
Year Completed:	2019	***Path:***	734\7341861.pdf
Well Completed Dt:	2019/08/22	***Latitude:***	43.556027876375
Audit No:	LBX2P5WQ	***Longitude:***	-79.5852289863524

---

94 ***1 of 1*** ***W/24.7*** ***78.8 / -1.00*** ***78 PARK ST. E MISSISSAUGA ON*** ***WWIS***

Well ID:	7341823	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	16-Sep-2019 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	8MUQDAWX	***Contractor:***	6607
Tag:	A271784	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:	MW 19-2		

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/734\7341823.pdf

DRAFT

Additional Detail(s) (Map)

Well Completed Date:	2019/08/15
Year Completed:	2019
Depth (m):	27.432
Latitude:	43.5560515102986
Longitude:	-79.5849560576027
Path:	734\7341823.pdf

Bore Hole Information

Bore Hole ID:	1007643144	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614293.00
Code OB Desc:		***North83:***	4823539.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	15-Aug-2019 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007643796
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	27.0
Formation End Depth:	90.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007643794
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	34
Most Common Material:	TILL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

Overburden and Bedrock

DRAFT

Materials Interval

Formation ID:	1007643795
Layer:	2
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15.0
Formation End Depth:	27.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1007644272
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1007644379
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1007644380
Layer:	2
Plug From:	1.0
Plug To:	85.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1007643547
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Method of Construction & Well Use

Method Construction ID:	1007643546
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

DRAFT

Pipe ID: 1007643386
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007643994
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 85.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1007644074
Layer: 1
Slot: 10
Screen Top Depth: 85.0
Screen End Depth: 90.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.5

Results of Well Yield Testing

Pump Test ID: 1007643387
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1007644161
Diameter: 4.0
Depth From: 30.0
Depth To: 90.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1007644160
Diameter: 8.0
Depth From: 0.0

DRAFT

Depth To:	30.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Links

Bore Hole ID:	1007643144	**Tag No:**	A271784
Depth M:	27.432	**Contractor:**	6607
Year Completed:	2019	**Path:**	734\7341823.pdf
Well Completed Dt:	2019/08/15	**Latitude:**	43.5560515102986
Audit No:	8MUQDAWX	**Longitude:**	-79.5849560576027

---

95 | ***1 of 1*** | ***W/25.5*** | ***78.8 / -1.00*** | ***ON*** | ***BORE***

Borehole ID:	833907	**Inclin FLG:**	No
OGF ID:	215586038	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	03-FEB-1977	**Municipality:**	
Static Water Level:	0.8	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.555876
Total Depth m:	6.1	**Longitude DD:**	-79.58678
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614146
Drill Method:	Hollow stem auger	**Northing:**	4823517
Orig Ground Elev m:	82.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	82.1		
Concession:			
Location D:	PORT CREDIT GO STATION * PLATFORM SHELTER		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	6014840	**Mat Consistency:**	Compact
Top Depth:	.6	**Material Moisture:**	
Bottom Depth:	2.9	**Material Texture:**	Fine
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Silty fine sand, compact, (brown) **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014839	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	Fill-Misc
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Concrete pavement, sand and gravel fill **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014841	**Mat Consistency:**	Very Stiff

DRAFT

Top Depth:	2.9	**Material Moisture:**	
Bottom Depth:	6.1	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	(Grey), heterogeneous mixture of clayey silt, sand and gravel, (glacial till), very stiff to hard **Note: Many records provided by the department have a truncated [Stratum Description] field.		

---

96 **1 of 1** **WSW/25.6** **76.9 / -2.97** **ON** **BORE**

Borehole ID:	649422	**Inclin FLG:**	No
OGF ID:	215549797	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1959	**Municipality:**	
Static Water Level:	0.1	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.55336
Total Depth m:	10	**Longitude DD:**	-79.590199
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	613875
Drill Method:	Diamond Drill	**Northing:**	4823233
Orig Ground Elev m:	80.7	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	81.6		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218526906	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL.		

Geology Stratum ID:	218526908	**Mat Consistency:**	Compact
Top Depth:	3.2	**Material Moisture:**	
Bottom Depth:	4.9	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SILT,CLAY. GREY,COMPACT.		

Geology Stratum ID:	218526911	**Mat Consistency:**	
Top Depth:	8.7	**Material Moisture:**	
Bottom Depth:	10	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	

DRAFT

Material 2: ***Geologic Group:***
Material 3: ***Geologic Period:***
Material 4: ***Depositional Gen:***
Gsc Material Description:
Stratum Description: BEDROCK. 018 016017028 011 0003003500106025001600700025016O6 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID: 218526907 ***Mat Consistency:*** Dense
Top Depth: .9 ***Material Moisture:***
Bottom Depth: 3.2 ***Material Texture:***
Material Color: Brown ***Non Geo Mat Type:***
Material 1: Sand ***Geologic Formation:***
Material 2: ***Geologic Group:***
Material 3: ***Geologic Period:***
Material 4: ***Depositional Gen:***
Gsc Material Description:
Stratum Description: SAND. BROWN,DENSE, WATER STABLE AT 264.2 FEET.

Geology Stratum ID: 218526909 ***Mat Consistency:*** Dense
Top Depth: 4.9 ***Material Moisture:***
Bottom Depth: 7.6 ***Material Texture:***
Material Color: Grey ***Non Geo Mat Type:***
Material 1: Till ***Geologic Formation:***
Material 2: Clay ***Geologic Group:***
Material 3: Silt ***Geologic Period:***
Material 4: Gravel ***Depositional Gen:***
Gsc Material Description:
Stratum Description: TILL,CLAY,SILT, GRAVEL. GREY,VERY DENSE.

Geology Stratum ID: 218526910 ***Mat Consistency:*** Dense
Top Depth: 7.6 ***Material Moisture:***
Bottom Depth: 8.7 ***Material Texture:***
Material Color: Grey ***Non Geo Mat Type:***
Material 1: Till ***Geologic Formation:***
Material 2: Sand ***Geologic Group:***
Material 3: Gravel ***Geologic Period:***
Material 4: ***Depositional Gen:***
Gsc Material Description:
Stratum Description: TILL,SAND,GRAVEL. GREY,VERY DENSE.

Source

Source Type: Data Survey ***Source Appl:*** Spatial/Tabular
Source Orig: Geological Survey of Canada ***Source Iden:*** 1
Source Date: 1956-1972 ***Scale or Res:*** Varies
Confidence: H ***Horizontal:*** NAD27
Observatio: ***Verticalda:*** Mean Average Sea Level
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR3.txt RecordID: 200810 NTS_Sheet: 30M12A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier: 1 ***Horizontal Datum:*** NAD27
Source Type: Data Survey ***Vertical Datum:*** Mean Average Sea Level
Source Date: 1956-1972 ***Projection Name:*** Universal Transverse Mercator
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

97	1 of 1	ENE/26.3	79.8 / 0.00	170 LAKESHORE ROAD EAST Oakville ON	WWIS

DRAFT

Well ID:	7287213	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	26-May-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z234258	**Contractor:**	7464
Tag:	A222349	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:	GPS-CO-OR		

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2017/04/12
Year Completed:	2017
Depth (m):	6.096
Latitude:	43.5568899526925
Longitude:	-79.5799593178456
Path:	

Bore Hole Information

Bore Hole ID:	1006481726	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614695.00
Code OB Desc:		**North83:**	4823639.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	12-Apr-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006744013
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	79
Mat3 Desc:	PACKED

DRAFT

Formation Top Depth:	10.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006744012
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	79
Mat3 Desc:	PACKED
Formation Top Depth:	3.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006744011
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	
Mat2 Desc:	
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006744022
Layer:	3
Plug From:	8.0
Plug To:	20.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006744020
Layer:	1
Plug From:	0.0
Plug To:	6.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006744021
Layer:	2
Plug From:	6.0

DRAFT

Plug To: 8.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1006744019
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1006744010
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006744016
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 10.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1006744017
Layer: 1
Slot: 10
Screen Top Depth: 10.0
Screen End Depth: 20.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.200000047683716

Water Details

Water ID: 1006744015
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1006744014
Diameter: 6.0
Depth From: 0.0
Depth To: 20.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

DRAFT

Links

Bore Hole ID:	1006481726	***Tag No:***	A222349
Depth M:	6.096	***Contractor:***	7464
Year Completed:	2017	***Path:***	
Well Completed Dt:	2017/04/12	***Latitude:***	43.5568899526925
Audit No:	Z234258	***Longitude:***	-79.5799593178456

98 ***1 of 1*** ***W/29.3*** ***79.8 / 0.00*** ***PORT CREDIT GO STATION ETOBICOKE ON*** ***WWIS***

Well ID:	7321758	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	07-Nov-2018 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z266972	***Contractor:***	6607
Tag:	A232612	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2018/01/27
Year Completed:	2018
Depth (m):	12.192
Latitude:	43.5568073629561
Longitude:	-79.5856440763172
Path:	

Bore Hole Information

Bore Hole ID:	1007306972	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614236.00
Code OB Desc:		***North83:***	4823622.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	27-Jan-2018 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

DRAFT

Materials Interval

Formation ID:	1007600788
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	01
Mat3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007600789
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	34
Mat3 Desc:	TILL
Formation Top Depth:	5.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007600790
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Mat2 Desc:	
Mat3:	26
Mat3 Desc:	ROCK
Formation Top Depth:	30.0
Formation End Depth:	40.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1007600798
Layer:	1
Plug From:	0.0
Plug To:	29.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

DRAFT

Plug ID: 1007600799
Layer: 2
Plug From: 29.0
Plug To: 40.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007600797
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1007600787
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007600794
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 30.0
Casing Diameter: 5.099999904632568
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1007600795
Layer: 1
Slot: 10
Screen Top Depth: 30.0
Screen End Depth: 40.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1007600793
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1007600792
Diameter: 4.0
Depth From: 30.0
Depth To: 40.0
Hole Depth UOM: ft

DRAFT

Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1007600791
Diameter: 8.0
Depth From: 0.0
Depth To: 30.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1007306972
Depth M: 12.192
Year Completed: 2018
Well Completed Dt: 2018/01/27
Audit No: Z266972
Tag No: A232612
Contractor: 6607
Path: 732\7321758.pdf
Latitude: 43.5568073629561
Longitude: -79.5856440763172

---

99 | ***1 of 1*** | ***ENE/29.8*** | ***79.8 / 0.00*** | ***Brenda Mcgarrell***
31 Oakwood Ave S.
Mississauga ON L5G 3L2 | ***GEN***

Generator No: ON4087107
SIC Code: 212114
SIC Description: Bituminous Coal Mining
Approval Years: 06
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

---

100 | ***1 of 1*** | ***NE/30.1*** | ***80.8 / 1.00*** | ***HARBINDER MANN VETERINARY CORPORATION***
205 LAKESHORE.RD. E.
MISSISSAUGA ON L5G1G2 | ***GEN***

Generator No: ON7519092
SIC Code:
SIC Description:
Approval Years: As of Feb 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

101 | ***1 of 1*** | ***W/30.5*** | ***79.8 / 0.00*** | ***High St. E., Ann St.***
Mississauga ON L5G | ***EHS***

Order No: 20312600085
Status: C
Report Type: Custom Report
Report Date: 01-DEC-20
Date Received: 26-NOV-20
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .3
X: -79.5837371

DRAFT

Previous Site Name: ***Y:*** 43.5561117
Lot/Building Size:
Additional Info Ordered:

---

102 ***1 of 1*** ***W/31.6*** ***78.8 / -1.00*** ***ON*** ***BORE***

Borehole ID:	640917	***Inclin FLG:***	No
OGF ID:	215541312	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	JAN-1965	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.555836
Total Depth m:	2.1	***Longitude DD:***	-79.586613
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	614160
Drill Method:	Power auger	***Northing:***	4823513
Orig Ground Elev m:	82	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	81.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494065	***Mat Consistency:***	
Top Depth:	.3	***Material Moisture:***	
Bottom Depth:	.9	***Material Texture:***	Medium
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:		***Depositional Gen:***	alluvial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,CLAY, SILT. BROWN,ALLUVIAL, AGE POST-GLACIAL.		

Geology Stratum ID:	218494064	***Mat Consistency:***	
Top Depth:	.2	***Material Moisture:***	
Bottom Depth:	.3	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:		***Depositional Gen:***	alluvial
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.		

Geology Stratum ID:	218494066	***Mat Consistency:***	
Top Depth:	.9	***Material Moisture:***	
Bottom Depth:	1.5	***Material Texture:***	Medium
Material Color:		***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:		***Depositional Gen:***	alluvial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,SILT, CLAY. ALLUVIAL,AGE POST-GLACIAL.		

DRAFT

Geology Stratum ID: 218494062
Top Depth: 0
Bottom Depth: .1
Material Color:
Material 1: Asphalt
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: ASPHALT.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218494063
Top Depth: .1
Bottom Depth: .2
Material Color:
Material 1: Fill
Material 2: Gravel
Material 3: Sand
Material 4: Silt
Gsc Material Description:
Stratum Description: FILL,GRAVEL,SAND, SILT.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: fill

Geology Stratum ID: 218494067
Top Depth: 1.5
Bottom Depth: 2.1
Material Color:
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SAND,SILT,CLAY. ALLUVIAL,AGE POST-GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 088830 NTS_Sheet: 30M12A
Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

103 | ***1 of 1*** | ***W/32.5*** | ***78.6 / -1.21*** | ***ON*** | ***BORE***

Borehole ID: 833904
OGF ID: 215586035
Status: Decommissioned
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: 29-MAY-1972
Static Water Level:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:

DRAFT

Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.555066
Total Depth m:	7	**Longitude DD:**	-79.588272
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614027
Drill Method:	Boring	**Northing:**	4823425
Orig Ground Elev m:	85.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	84		
Concession:			
Location D:	PORT CREDIT GO STATION * PLATFORM SHELTER		
Survey D:			
Comments:	No W.L - hole caved in		

Borehole Geology Stratum

Geology Stratum ID:	6014834	**Mat Consistency:**	Very Loose
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	5.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	Fill-Misc
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:	Coal fragments	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Asphalt top 0.05; clayey silt with sand and gravel (fill), stiff; sand and gravel, trace of silt, (occasional pieces of coal and wood), fill, very loose to compact **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014835	**Mat Consistency:**	Dense
Top Depth:	5.6	**Material Moisture:**	
Bottom Depth:	7	**Material Texture:**	Fine
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Silty fine sand, dense, grey **Note: Many records provided by the department have a truncated [Stratum Description] field.		

104	1 of 1	ENE/32.6	79.8 / 0.00	ON	BORE

Borehole ID:	641268	**Inclin FLG:**	No
OGF ID:	215541663	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1967	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.559814
Total Depth m:	1.5	**Longitude DD:**	-79.573396
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615220
Drill Method:	Power auger	**Northing:**	4823973
Orig Ground Elev m:	80.5	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.8		
Concession:			
Location D:			
Survey D:			
Comments:			

DRAFT

Borehole Geology Stratum

Geology Stratum ID:	218495469	***Mat Consistency:***	
Top Depth:	.3	***Material Moisture:***	
Bottom Depth:	.5	***Material Texture:***	Coarse
Material Color:	Blue	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:		***Depositional Gen:***	lacustrine
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE,SILT,CLAY. BLUE,LACUSTRINE,AGE GLACIAL.		

Geology Stratum ID:	218495470	***Mat Consistency:***	
Top Depth:	.5	***Material Moisture:***	Moist
Bottom Depth:	1.1	***Material Texture:***	Coarse
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:		***Depositional Gen:***	lacustrine
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.		

Geology Stratum ID:	218495471	***Mat Consistency:***	Dense
Top Depth:	1.1	***Material Moisture:***	
Bottom Depth:	1.5	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:		***Depositional Gen:***	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. BROWN,LACUSTRINE,DENSE, AGE GLACIAL.		

Geology Stratum ID:	218495468	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.3	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Fill	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:	Clay	***Depositional Gen:***	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,SILT,CLAY.BROWN.		

Geology Stratum ID:	218495467	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	0	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	M	***Horizontal:***	NAD27

DRAFT

Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 092340 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

105 ***1 of 1*** ***W/32.9*** ***78.8 / -1.00*** ***ON*** ***BORE***

Borehole ID:	649449	**Inclin FLG:**	No
OGF ID:	215549824	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	DEC-1959	**Municipality:**	
Static Water Level:	0.2	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556737
Total Depth m:	5	**Longitude DD:**	-79.586654
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614155
Drill Method:	Diamond Drill	**Northing:**	4823613
Orig Ground Elev m:	83.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	83.6		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218527011	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL.		

Geology Stratum ID:	218527013	**Mat Consistency:**	Dense
Top Depth:	3.7	**Material Moisture:**	
Bottom Depth:	5	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT, GRAVEL. GREY,DENSE. 019 010 0001001700120050 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

DRAFT

Geology Stratum ID:	218527012	**Mat Consistency:**	Compact
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	3.7	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY. BROWN,COMPACT, WATER STABLE AT 274.4 FEET.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 201080 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

106 | ***1 of 1*** | ***W/34.3*** | ***78.8 / -1.00*** | ***70 Park St E, Mississauga ON L5G 1M5*** | ***EHS***

Order No:	22030800679	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	11-MAR-22	**Search Radius (km):**	.25
Date Received:	08-MAR-22	**X:**	-79.58582111
Previous Site Name:		**Y:**	43.55588489
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

---

107 | ***1 of 1*** | ***W/35.3*** | ***78.2 / -1.64*** | ***ON*** | ***BORE***

Borehole ID:	833905	**Inclin FLG:**	No
OGF ID:	215586036	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	29-MAY-1972	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.55511
Total Depth m:	4.1	**Longitude DD:**	-79.588185
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614034
Drill Method:	Boring	**Northing:**	4823430
Orig Ground Elev m:	85.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	84.1		

DRAFT

Concession:
Location D: PORT CREDIT GO STATION * PLATFORM SHELTER
Survey D:
Comments: Hole dry

Borehole Geology Stratum

Geology Stratum ID:	6014836	**Mat Consistency:**	Very Loose
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	4.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	Fill-Misc
Material 1:	Coal fragments	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:	Silt	**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Asphalt - top 0.05m, (fill); crushed coal with sand and gravel; sand and gravel, some silt, (occasional pieces of coal throughout), very loose to compact **Note: Many records provided by the department have a truncated [Stratum Description] field.

---

108 | ***1 of 1*** | ***NNE/35.4*** | ***79.8 / 0.00*** | ***158 LAKESHORE RD EAST Mississauga ON*** | ***WWIS***

Well ID:	7284533	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned Monitoring and Test Hole	**Date Received:**	07-Apr-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z246113	**Contractor:**	7147
Tag:		**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2017/03/28
Year Completed: 2017
Depth (m):
Latitude: 43.5564530989389
Longitude: -79.5810343269544
Path:

Bore Hole Information

Bore Hole ID:	1006376924	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614609.00
Code OB Desc:		**North83:**	4823589.00
Open Hole:		**Org CS:**	UTM83

DRAFT

Cluster Kind:
Date Completed: 28-Mar-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006633130
Layer:
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006633136
Layer: 1
Plug From: 0.0
Plug To: 4.199999809265137
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006633137
Layer: 2
Plug From:
Plug To: 4.199999809265137
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006633135
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1006633129
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

DRAFT

Casing ID: 1006633133
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 3.0
Casing Diameter: 5.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006633134
Layer: 1
Slot: .01
Screen Top Depth: 3.0
Screen End Depth: 4.199999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.300000190734863

Water Details

Water ID: 1006633132
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 1.5
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006633131
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1006376924
Depth M:
Year Completed: 2017
Well Completed Dt: 2017/03/28
Audit No: Z246113
Tag No:
Contractor: 7147
Path: 728\7284533.pdf
Latitude: 43.5564530989389
Longitude: -79.5810343269544

109 ***1 of 1*** ***W/35.4*** ***79.5 / -0.37*** ***ON*** ***BORE***

Borehole ID: 833906
OGF ID: 215586037
Status: Decommissioned
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: 30-MAY-1972
Static Water Level:
Primary Water Use:
Sec. Water Use:
Total Depth m: 3.2
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.55551
Longitude DD: -79.587779

DRAFT

Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614066
Drill Method:	Boring	**Northing:**	4823475
Orig Ground Elev m:	85.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	83.9		
Concession:			
Location D:	PORT CREDIT GO STATION * PLATFORM SHELTER		
Survey D:			
Comments:	Met practical refusal to driving at 1.52m (probable boulder), moved 0.76m west and resumed sampling at 1.83m		

Borehole Geology Stratum

Geology Stratum ID:	6014838	**Mat Consistency:**	Loose
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	3.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	Fill-Misc
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Wood Fragments	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Asphalt top 0.03m, sand and gravel, trace of silt, (occasional pieces of wood and brick), fill, loose to compact **Note: Many records provided by the department have a truncated [Stratum Description] field.		

---

110 ***1 of 1*** ***W/35.4*** ***78.8 / -1.00*** ***ON*** ***WWIS***

Well ID:	7380344	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	17-Feb-2021 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z346438	**Contractor:**	7215
Tag:		**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

Bore Hole Information

Bore Hole ID:	1008631301	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614285.00
Code OB Desc:		**North83:**	4823527.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	13-Jan-2021 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			

DRAFT

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Links

Bore Hole ID:	1008631301	***Tag No:***	
Depth M:		***Contractor:***	7215
Year Completed:	2021	***Path:***	
Well Completed Dt:	2021/01/13	***Latitude:***	43.5559447184594
Audit No:	Z346438	***Longitude:***	-79.5850576025616

---

111 ***1 of 1*** ***W/36.8*** ***78.8 / -1.00*** ***ON*** ***BORE***

Borehole ID:	833903	***Inclin FLG:***	No
OGF ID:	215586034	***SP Status:***	Initial Entry
Status:	Decommissioned	***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	26-MAY-1972	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	43.555439
Total Depth m:	6.9	***Longitude DD:***	-79.58783
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	614062
Drill Method:	Boring	***Northing:***	4823467
Orig Ground Elev m:	85.6	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Within 10 metres
DEM Ground Elev m:	83.9		
Concession:			
Location D:	PORT CREDIT GO STATION * PLATFORM SHELTER		
Survey D:			
Comments:	No W.L - hole caved in		

Borehole Geology Stratum

Geology Stratum ID:	6014831	***Mat Consistency:***	Compact
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	4.7	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	Fill-Misc
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Gravel	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:	organic material	***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	Asphalt top 0.04m, sand and gravel, trace of silt, (trace of organic matter throughout), fill, compact to very loose **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014833	***Mat Consistency:***	Very Stiff
Top Depth:	6.4	***Material Moisture:***	
Bottom Depth:	6.9	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Till	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:	Gravel	***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	Heterogeneous mixture of clayey silt, sand and gravel (glacial till), very stiff **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014832	***Mat Consistency:***	Very Stiff

DRAFT

Top Depth:	4.7	**Material Moisture:**	
Bottom Depth:	6.4	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:

Stratum Description: Clayey silt, grey, very stiff **Note: Many records provided by the department have a truncated [Stratum Description] field.

---

112 | 1 of 4 | W/37.9 | 77.9 / -1.92 | **R.M. OF PEEL**
182 ROSEMERE RD. SEW. P.S.
MISSISSAUGA CITY ON | CA

Certificate #:	8-3553-94-
Application Year:	94
Issue Date:	1/23/1995
Approval Type:	Industrial air
Status:	Approved in 1995
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	STANDBY GEN-SET FOR SEWAGE PUMP STATION
Contaminants:	Nitrogen Oxides, Sulphur Dioxide
Emission Control:	No Controls

---

112 | 2 of 4 | W/37.9 | 77.9 / -1.92 | **R.M. OF PEEL**
182 ROSEMERE RD. SEW P.S.
MISSISSAUGA CITY ON | CA

Certificate #:	3-1313-94-
Application Year:	94
Issue Date:	11/1/1994
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

---

112 | 3 of 4 | W/37.9 | 77.9 / -1.92 | **R.M. OF PEEL**
182 ROSEMERE RD. SEWAGE P.S.
MISSISSAUGA CITY ON | CA

Certificate #:	3-1313-94-
Application Year:	94
Issue Date:	11/2/1994
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	

DRAFT

Project Description:
Contaminants:
Emission Control:

---

112 *4 of 4* *W/37.9* *77.9 / -1.92*

R.M. OF PEEL
182 ROSEMERE RD. SEW. P.S.
MISSISSAUGA CITY ON

CA

Certificate #: 3-1313-94-
Application Year: 94
Issue Date: 10/14/1994
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

113 *1 of 1* *W/38.4* *79.8 / 0.00*

GO STATION PARKING LOT (SOUTH SIDE)
PORT CREDIT ON

WWIS

Well ID: 7321811
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z266901
Tag: A241299
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 07-Nov-2018 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 7
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2018/01/14
Year Completed: 2018
Depth (m): 4.63296
Latitude: 43.557000914527
Longitude: -79.5845500284015
Path:

Bore Hole Information

Bore Hole ID: 1007307131
DP2BR:

Elevation:
Elevrc:

DRAFT

Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614324.00
Code OB Desc:		***North83:***	4823645.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	14-Jan-2018 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007605477
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0.0
Formation End Depth:	1.5
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007605478
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	28
Mat3 Desc:	SAND
Formation Top Depth:	1.5
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007605479
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	34
Mat3 Desc:	TILL
Formation Top Depth:	6.0
Formation End Depth:	7.599999904632568

DRAFT

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007605480
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 7.599999904632568
Formation End Depth: 15.199999809265137
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007605489
Layer: 2
Plug From: 0.30000001192092896
Plug To: 11.800000190734863
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007605488
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007605487
Method Construction Code: 6
Method Construction: Boring
Other Method Construction: DIAMOND

Pipe Information

Pipe ID: 1007605476
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007605484
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 12.100000381469727
Casing Diameter: 5.099999904632568

DRAFT

Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1007605485
Layer: 1
Slot: 10
Screen Top Depth: 12.100000381469727
Screen End Depth: 15.199999809265137
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1007605483
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1007605482
Diameter:
Depth From: 9.100000381469727
Depth To: 15.199999809265137
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1007605481
Diameter: 21.0
Depth From: 0.0
Depth To: 9.100000381469727
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1007307131
Depth M: 4.63296
Year Completed: 2018
Well Completed Dt: 2018/01/14
Audit No: Z266901
Tag No: A241299
Contractor: 6607
Path: 732\7321811.pdf
Latitude: 43.557000914527
Longitude: -79.5845500284015

---

114 ***1 of 1*** ***W/38.8*** ***78.8 / -1.00*** ***78 PARK ST. E MISSISSAUGA ON*** ***WWIS***

Well ID: 7341887
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: WBYVTTLD
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 16-Sep-2019 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607

DRAFT

Tag:	A264678	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:	MW 19-1		

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/734\7341887.pdf

Additional Detail(s) (Map)

Well Completed Date:	2019/08/14
Year Completed:	2019
Depth (m):	26.5176
Latitude:	43.5559172544505
Longitude:	-79.5850211032385
Path:	734\7341887.pdf

Bore Hole Information

Bore Hole ID:	1007643336	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614288.00
Code OB Desc:		**North83:**	4823524.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	14-Aug-2019 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007643964
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	27.0
Formation End Depth:	87.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

DRAFT

Formation ID:	1007643962
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	34
Most Common Material:	TILL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007643963
Layer:	2
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15.0
Formation End Depth:	27.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1007644522
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1007644336
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1007644523
Layer:	2
Plug From:	1.0
Plug To:	82.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1007643636

DRAFT

Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1007643635
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1007643514
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007644053
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 82.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1007644133
Layer: 1
Slot: 10
Screen Top Depth: 82.0
Screen End Depth: 87.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.5

Results of Well Yield Testing

Pump Test ID: 1007643515
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

DRAFT

Hole Diameter

Hole ID:	1007644247
Diameter:	8.0
Depth From:	0.0
Depth To:	30.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1007644248
Diameter:	4.0
Depth From:	30.0
Depth To:	87.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Links

Bore Hole ID:	1007643336	***Tag No:***	A264678
Depth M:	26.5176	***Contractor:***	6607
Year Completed:	2019	***Path:***	734\7341887.pdf
Well Completed Dt:	2019/08/14	***Latitude:***	43.5559172544505
Audit No:	WBYVTTLD	***Longitude:***	-79.5850211032385

115 ***1 of 1*** ***W/39.7*** ***79.8 / 0.00*** ***30 Queen St E ON*** ***WWIS***

Well ID:	7380055	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	29-Jan-2021 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	KTPNZ5WC	***Contractor:***	7360
Tag:	A295479	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

Bore Hole Information

Bore Hole ID:	1008564214	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614201.00
Code OB Desc:		***North83:***	4823627.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	26-Jun-2020 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			

DRAFT

Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1008564329
Layer: 3
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 34
Mat2 Desc: TILL
Mat3:
Mat3 Desc:
Formation Top Depth: 10.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008564330
Layer: 4
Color:
General Color:
Mat1: 06
Most Common Material: SILT
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 20.0
Formation End Depth: 35.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008564328
Layer: 2
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008564327
Layer: 1

DRAFT

Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008564406
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008564421
Layer: 1
Plug From: 0.0
Plug To: 23.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008564278
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1008564254
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008564361
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 25.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008564375
Layer: 1

DRAFT

Slot:	0.1
Screen Top Depth:	25.0
Screen End Depth:	35.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Results of Well Yield Testing

Pump Test ID:	1008564255
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1008564391
Diameter:	6.0
Depth From:	0.0
Depth To:	35.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Links

Bore Hole ID:	1008564214	**Tag No:**	A295479
Depth M:	10.668	**Contractor:**	7360
Year Completed:	2020	**Path:**	738\7380055.pdf
Well Completed Dt:	2020/06/26	**Latitude:**	43.5568577295378
Audit No:	KTPNZ5WC	**Longitude:**	-79.5860762288303

---

116 | ***1 of 1*** | ***W/39.9*** | ***79.8 / 0.00*** | ***PORT CREDIT GO STATION*** ***PORT CREDIT ON*** | ***WWIS***

Well ID:	7321812	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	0	**Date Received:**	07-Nov-2018 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z266902	**Contractor:**	6607
Tag:	A241249	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	

DRAFT

Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2018/01/15
Year Completed: 2018
Depth (m): 15.2
Latitude: 43.5570024471017
Longitude: -79.5846738016095
Path:

Bore Hole Information

Bore Hole ID: 1007307134
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 15-Jan-2018 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 614314.00
North83: 4823645.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1007605497
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 9.100000381469727
Formation End Depth: 15.199999809265137
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007605494
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11

DRAFT

Mat2 Desc: GRAVEL
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007605495
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 06
Mat2 Desc: SILT
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 1.5
Formation End Depth: 6.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007605496
Layer: 3
Color: 2
General Color: GREY
Mat1: 06
Most Common Material: SILT
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 6.0
Formation End Depth: 9.100000381469727
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007605507
Layer: 2
Plug From: 0.30000001192092896
Plug To: 11.800000190734863
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007605506
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

DRAFT

Method Construction ID: 1007605505
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1007605493
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007605501
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 12.100000381469727
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1007605502
Layer: 2
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007605503
Layer: 1
Slot: 10
Screen Top Depth: 12.100000381469727
Screen End Depth: 15.199999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1007605500
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1007605499
Diameter: 9.600000381469727

DRAFT

Depth From: 9.100000381469727
Depth To: 15.199999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1007605498
Diameter: 21.0
Depth From: 0.0
Depth To: 9.100000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1007307134
Depth M: 15.2
Year Completed: 2018
Well Completed Dt: 2018/01/15
Audit No: Z266902
Tag No: A241249
Contractor: 6607
Path: 732\7321812.pdf
Latitude: 43.5570024471017
Longitude: -79.5846738016095

---

117 **1 of 6** **W/40.2** **78.8 / -1.00** **Metrolinx**
30 Queen Street East
Mississauga ON L5H 1L4 **GEN**

Generator No: ON5182768
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

---

117 **2 of 6** **W/40.2** **78.8 / -1.00** **Salini Impregilo Civil Works Inc.**
30 Queen Street East Mississauga, ON Canada
ON **PTTW**

EBR Registry No: 019-3001
Ministry Ref No: 7721-BW3NJF
Notice Type: Instrument
Notice Stage: Decision
Notice Date:
Proposal Date: January\s21,\s2021
Year: 2021
Decision Posted: May\s21,\s2021
Exception Posted:
Section: Section\s34
Act 1: Ontario\sWater\sResources\sAct,\sR.S.O.\s1990
Act 2: Ontario\sWater\sResources\sAct
Site Location Map: 43.55674,-79.585817
Instrument Type: Permit\sto\stake\swater
Off Instrument Name: Permit\sto\sTake\sWater\s(OWRA\ss.\s34)
Posted By: Ministry\sof\sthe\sEnvironment,\sConservation\sand\sParks
Company Name:
Site Address: 30\sQueen\sStreet\sEast\sMississauga,\sON\sCanada
Location Other:
Proponent Name: Salini\sImpregilo\sCivil\sWorks\sInc.
Proponent Address: Salini\sImpregilo\sCivil\sWorks\sInc.\s110\sMatheson\sBoulevard\sWest\sSuite\s400\sMississauga,\sON\sL5R\s4G7\sCanada
Comment Period: January\s21,\s2021\s-\sFebruary\s20,\s2021\s(30\sdays)\sClosed
URL: https://ero.ontario.ca/notice/019-3001

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Site Location Details:

---

117 | ***3 of 6*** | ***W/40.2*** | ***78.8 / -1.00*** | ***Metrolinx*** | ***GEN***
30 Queen Street East
Mississauga ON L5H 1L4

Generator No:	ON5182768	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Nov 2021	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class:	146 L
Waste Class Desc:	Other specified inorganic sludges, slurries or solids

---

117 | ***4 of 6*** | ***W/40.2*** | ***78.8 / -1.00*** | ***Salini Impregilo Civil Works Inc.*** | ***EASR***
30 Queen ST E
Mississauga ON L5R 4G7

Approval No:	R-009-7113160571	***MOE District:***	Halton-Peel
Status:	REGISTERED	***Municipality:***	Mississauga
Date:	2021-04-30	***Latitude:***	43.55527778
Record Type:	EASR	***Longitude:***	-79.5875
Link Source:	MOFA	***Geometry X:***	-8859639.9735
Project Type:	Water Taking - Construction Dewatering	***Geometry Y:***	5396876.357299998
Full Address:			
Approval Type:	EASR-Water Taking - Construction Dewatering		
SWP Area Name:	Credit Valley		
PDF URL:			
PDF Site Location:			

---

117 | ***5 of 6*** | ***W/40.2*** | ***78.8 / -1.00*** | ***Mobilinx*** | ***GEN***
30 Queen Street East
Mississauga ON L5G 4N6

Generator No:	ON3332947	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Nov 2021	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class:	221 L
Waste Class Desc:	Light fuels

---

117 | ***6 of 6*** | ***W/40.2*** | ***78.8 / -1.00*** | ***Metrolinx*** | ***GEN***
30 Queen Street East
Mississauga ON L5H 1L4

Generator No:	ON5182768	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Feb 2022	***Phone No Admin:***	

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

PO Box No: | **Contam. Facility:**
Country: Canada | **MHSW Facility:**

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

---

118 | **1 of 1** | **W/40.2** | **79.8 / 0.00** | **90 High St E Mississauga ON L5G1K4** | **EHS**

Order No: 20180301170
Status: C
Report Type: Standard Report
Report Date: 08-MAR-18
Date Received: 01-MAR-18
Previous Site Name:
Lot/Building Size: 0.22 hectares
Additional Info Ordered:

Nearest Intersection:
Municipality: Mississauga
Client Prov/State: ON
Search Radius (km): .25
X: -79.583282
Y: 43.556065

---

119 | **1 of 1** | **W/40.7** | **79.8 / 0.00** | **HURONTARIO/ GO TRANSIT TRACKS ETOBICOKE ON** | **WWIS**

Well ID: 7321771
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z266878
Tag: A232639
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

PDF URL (Map):

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 07-Nov-2018 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 7
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Well Completed Date: 2018/07/21
Year Completed: 2018
Depth (m): 7.62
Latitude: 43.5569710381831
Longitude: -79.5850459639712
Path:

Bore Hole Information

Bore Hole ID: 1007307011
DP2BR:
Spatial Status:
Code OB:

Elevation:
Elevrc:
Zone: 17
East83: 614284.00

DRAFT

Code OB Desc:		**North83:**	4823641.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	21-Jul-2018 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007602916
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007602918
Layer:	3
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Mat2 Desc:	SILT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15.0
Formation End Depth:	25.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007602917
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

DRAFT

Annular Space/Abandonment Sealing Record

Plug ID:	1007602926
Layer:	2
Plug From:	24.0
Plug To:	35.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1007602925
Layer:	1
Plug From:	0.0
Plug To:	24.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1007602924
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	DIAMOND

Pipe Information

Pipe ID:	1007602915
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1007602921
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	25.0
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1007602922
Layer:	1
Slot:	10
Screen Top Depth:	25.0
Screen End Depth:	35.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	6.400000095367432

Water Details

Water ID:	1007602920

DRAFT

Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1007602919
Diameter: 5.5
Depth From: 0.0
Depth To: 35.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1007307011
Depth M: 7.62
Year Completed: 2018
Well Completed Dt: 2018/07/21
Audit No: Z266878
Tag No: A232639
Contractor: 6607
Path: 732\7321771.pdf
Latitude: 43.5569710381831
Longitude: -79.5850459639712

---

120 | **1 of 1** | **W/41.2** | **79.8 / 0.00** | **30 Queen St E ON** | **WWIS**

Well ID: 7380056
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: RXRFRGV6
Tag: A295480
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 29-Jan-2021 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7360
Form Version: 9
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1008564217
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 26-Jun-2020 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Elevation:
Elevrc:
Zone: 17
East83: 614198.00
North83: 4823628.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

DRAFT

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1008564333
Layer:	3
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	34
Mat2 Desc:	TILL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008564332
Layer:	2
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008564331
Layer:	1
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008564422
Layer:	1
Plug From:	0.0
Plug To:	13.0
Plug Depth UOM:	ft

DRAFT

Annular Space/Abandonment Sealing Record

Plug ID:	1008564407
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1008564279
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

Pipe Information

Pipe ID:	1008564256
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008564362
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	15.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008564376
Layer:	1
Slot:	0.1
Screen Top Depth:	15.0
Screen End Depth:	20.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Results of Well Yield Testing

Pump Test ID:	1008564257
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM

DRAFT

Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1008564392
Diameter: 6.0
Depth From: 0.0
Depth To: 20.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1008564217
Depth M: 6.096
Year Completed: 2020
Well Completed Dt: 2020/06/26
Audit No: RXRFRGV6
Tag No: A295480
Contractor: 7360
Path: 738\7380056.pdf
Latitude: 43.5568671902916
Longitude: -79.5861131502184

---

121 | ***1 of 1*** | ***ENE/41.4*** | ***79.8 / 0.00*** | ***158 LAKESHORE RD E Mississauga ON*** | ***WWIS***

Well ID: 7284535
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: Z246108
Tag: A217243
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

PDF URL (Map):

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 07-Apr-2017 00:00:00
Selected Flag: TRUE
Abandonment Rec: Yes
Contractor: 7147
Form Version: 7
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Well Completed Date: 2017/03/28
Year Completed: 2017
Depth (m):
Latitude: 43.5564335595503
Longitude: -79.5809109776282
Path:

Bore Hole Information

Bore Hole ID: 1006376933
Elevation:

DRAFT

DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614619.00
Code OB Desc:		**North83:**	4823587.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	28-Mar-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006633191
Layer:	
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006633197
Layer:	1
Plug From:	0.0
Plug To:	0.20000000298023224
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006633198
Layer:	2
Plug From:	0.20000000298023224
Plug To:	2.0999999046325684
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006633199
Layer:	3
Plug From:	
Plug To:	2.0999999046325684
Plug Depth UOM:	m

Method of Construction & Well Use

DRAFT

Method Construction ID: 1006633196
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1006633190
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006633194
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 0.6000000238418579
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006633195
Layer: 1
Slot: .01
Screen Top Depth: 0.6000000238418579
Screen End Depth: 2.0999999046325684
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4.300000190734863

Water Details

Water ID: 1006633193
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 0.15000000596046448
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006633192
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1006376933
Depth M:
Year Completed: 2017
Well Completed Dt: 2017/03/28
Audit No: Z246108
Tag No: A217243
Contractor: 7147
Path: 728\7284535.pdf
Latitude: 43.5564335595503
Longitude: -79.5809109776282

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
122	1 of 12	ENE/41.5	79.8 / 0.00	BEAVER FUELS MANAGEMENT LIMITED ATTENTION: MIRIAM 158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	PRT

Location ID: 9135
Type: retail
Expiry Date: 1993-05-31
Capacity (L): 113650
Licence #: 0010074028

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
122	2 of 12	ENE/41.5	79.8 / 0.00	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT 158 LAKESHORE RD E MISSISSAUGA ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 9454590
Status: EXPIRED
Instance ID: 381112
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Gasoline Station - Full Serve
Original Source: EXP
Record Date: Up to Mar 2012

Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
122	3 of 12	ENE/41.5	79.8 / 0.00	BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT 158 LAKESHORE RD E MISSISSAUGA ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 10857528

Expired Date:

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	46250	***Facility Location:***	
Instance Type:	FS Piping	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

122	***4 of 12***	***ENE/41.5***	***79.8 / 0.00***	***BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT 158 LAKESHORE RD E MISSISSAUGA ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10857510	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	46242	***Facility Location:***	
Instance Type:	FS Piping	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

---

122 **5 of 12** **ENE/41.5** **79.8 / 0.00** **BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT**
158 LAKESHORE RD E
MISSISSAUGA ON
DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 10857584
Status: EXPIRED
Instance ID: 46558
Instance Type: FS Piping
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

---

122 **6 of 12** **ENE/41.5** **79.8 / 0.00** **BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT**
158 LAKESHORE RD E
MISSISSAUGA ON
DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 10857543
Status: EXPIRED
Instance ID: 46658
Instance Type: FS Piping
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:

Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:

DRAFT

Quantity: ***Piping Galvanized:***
Unit of Measure: ***Tank Single Wall St:***
Overfill Prot Type: ***Piping Underground:***
Creation Date: ***Tank Underground:***
Next Periodic Str DT: ***Source:***
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

122	***7 of 12***	***ENE/41.5***	***79.8 / 0.00***	***BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT 158 LAKESHORE RD E MISSISSAUGA ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 10857570
Status: EXPIRED
Instance ID: 46738
Instance Type: FS Piping
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

122	***8 of 12***	***ENE/41.5***	***79.8 / 0.00***	***BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT 158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9***	***DTNK***

DRAFT

Delisted Expired Fuel Safety Facilities

Instance No:	10857504	***Expired Date:***	4/4/1992
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:		***Facility Location:***	
Instance Type:	FS Liquid Fuel Tank	***Facility Type:***	FS Liquid Fuel Tank
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Gasoline Station - Full Serve		
Original Source:	EXP		
Record Date:	28-FEB-2017		

122	***9 of 12***	***ENE/41.5***	***79.8 / 0.00***	***BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT 158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10857576	***Expired Date:***	4/4/1992
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:		***Facility Location:***	
Instance Type:	FS Liquid Fuel Tank	***Facility Type:***	FS Liquid Fuel Tank
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			

DRAFT

TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Gasoline Station - Full Serve
Original Source: EXP
Record Date: 28-FEB-2017

---

122 ***10 of 12*** ***ENE/41.5*** ***79.8 / 0.00*** ***BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT 158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9*** ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 10857556
Status: EXPIRED
Instance ID:
Instance Type: FS Liquid Fuel Tank
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Gasoline Station - Full Serve
Original Source: EXP
Record Date: 28-FEB-2017

Expired Date: 4/4/1992
Max Hazard Rank:
Facility Location:
Facility Type: FS Liquid Fuel Tank
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

---

122 ***11 of 12*** ***ENE/41.5*** ***79.8 / 0.00*** ***BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT 158 LAKESHORE RD E MISSISSAUGA ON L5G 1E9*** ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 10857519
Status: EXPIRED
Instance ID:
Instance Type: FS Liquid Fuel Tank
Instance Creation Dt:

Expired Date: 4/4/1992
Max Hazard Rank:
Facility Location:
Facility Type: FS Liquid Fuel Tank
Fuel Type 2:

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Gasoline Station - Full Serve		
Original Source:	EXP		
Record Date:	28-FEB-2017		

122	12 of 12	ENE/41.5	79.8 / 0.00	**BEAVER FUELS MANAGEMENT LIMITED ATT: LEON CHABOT** **158 LAKESHORE RD E** **MISSISSAUGA ON L5G 1E9**	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10857534	**Expired Date:**	4/4/1992
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:		**Facility Location:**	
Instance Type:	FS Liquid Fuel Tank	**Facility Type:**	FS Liquid Fuel Tank
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Gasoline Station - Full Serve		
Original Source:	EXP		
Record Date:	28-FEB-2017		

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
123	1 of 1	W/41.5	79.8 / 0.00	90 High Street East, Mississauga ON	PINC

Incident Id:		**Pipe Material:**	
Incident No:	789716	**Fuel Category:**	Natural Gas
Incident Reported Dt:		**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:	Pipeline Damage Reason Est	**Property Damage:**	Yes
Tank Status:	RC Established	**Service Interrupt:**	
Task No:	3788069	**Enforce Policy:**	Yes
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	FS-Perform P-line Inc Invest
Occurrence Start Dt:	2012/04/13	**Regulator Location:**	
Depth:		**Method Details:**	E-mail
Customer Acct Name:			
Incident Address:			
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:	90 High Street East, Mississauga - 1/2" Pipeline Hit		
Reported By:	Jeffrey.Bruce@enbridge.com		
Affiliation:			
Occurrence Desc:			
Damage Reason:	Excavation practices not sufficient		
Notes:			

124	1 of 1	W/43.9	78.8 / -1.00	Richard's Fine Chocolates Inc. 25 Helene St N Mississauga ON L5G 3B6	SCT

Established:	8/1/1996
Plant Size (ft²):	
Employment:	
--Details--	
Description:	Confectionery Manufacturing from Purchased Chocolate
SIC/NAICS Code:	311330

125	1 of 1	SE/44.1	77.3 / -2.59	ON	AST

OGF ID:	1200714528
Sub Type:	Petroleum Tank
Sub Type No:	1332
Location Accuracy:	Within 10 metres
Sensitivity Class:	Non-Sensitive
Sensitivity Date:	20070106
Sensitivity Rationale:	No Restriction Needed
Verification Flag:	Verified
Verification Date:	19980522
Business Effective Dt Flag:	Estimated
Business Effective Dt:	19980522
Sys Calcu Area:	9.0
Sys Calcu Length:	0.0
User Calc Metric:	0.0
Effective Date/Time:	19980522

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
126	1 of 1	W/44.1	79.8 / 0.00	30 Queen St East Mississauga ON	WWIS

Well ID:	7363630	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	07-Aug-2020 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	2QGO89A5	**Contractor:**	7609
Tag:	A283617	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

Bore Hole Information

Bore Hole ID:	1008371671	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614300.00
Code OB Desc:		**North83:**	4823647.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	24-Jul-2020 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008371787
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	1.5199999809265137
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1008371877

DRAFT

Layer: 2
Plug From: 0.30000001192092896
Plug To: 1.5199999809265137
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1008371878
Layer: 3
Plug From: 1.5199999809265137
Plug To: 4.570000171661377
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1008371854
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1008371876
Layer: 1
Plug From: 0.30000001192092896
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1008371754
Method Construction Code: E
Method Construction: Auger
Other Method Construction: Augering

Method of Construction & Well Use

Method Construction ID: 1008371755
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 1008371722
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008371816
Layer: 1
Material: 5

DRAFT

Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	1.5199999809265137
Casing Diameter:	5.0
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1008371826
Layer:	1
Slot:	20
Screen Top Depth:	1.5199999809265137
Screen End Depth:	4.570000171661377
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.0

Results of Well Yield Testing

Pump Test ID:	1008371723
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1008371839
Diameter:	21.0
Depth From:	0.0
Depth To:	4.570000171661377
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1008371671	**Tag No:**	A283617
Depth M:	1.52	**Contractor:**	7609
Year Completed:	2020	**Path:**	736\7363630.pdf
Well Completed Dt:	2020/07/24	**Latitude:**	43.5570225953993
Audit No:	2QGO89A5	**Longitude:**	-79.5848466627181

127	***1 of 1***	***E/45.6***	***79.8 / 0.00***	***158 LAKESHORE RD E Mississauga ON***	***WWIS***

Well ID:	7282790	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	

DRAFT

Final Well Status:	0	***Date Received:***	13-Mar-2017 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z253455	***Contractor:***	7241
Tag:	A217279	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2017/02/09
Year Completed:	2017
Depth (m):	2.1336
Latitude:	43.5563800118454
Longitude:	-79.5809493768346
Path:	

Bore Hole Information

Bore Hole ID:	1006367884	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614616.00
Code OB Desc:		***North83:***	4823581.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	09-Feb-2017 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006583037
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	17
Mat2 Desc:	SHALE
Mat3:	92
Mat3 Desc:	WEATHERED
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

DRAFT

Overburden and Bedrock Materials Interval

Formation ID:	1006583038
Layer:	2
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	7.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006583044
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006583045
Layer:	2
Plug From:	1.0
Plug To:	7.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006583043
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1006583036
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006583041
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	2.0
Casing Diameter:	1.25
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

DRAFT

Construction Record - Screen

Screen ID:	1006583042
Layer:	1
Slot:	10
Screen Top Depth:	2.0
Screen End Depth:	7.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	1.5

Water Details

Water ID:	1006583040
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006583039
Diameter:	2.25
Depth From:	0.0
Depth To:	7.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Links

Bore Hole ID:	1006367884	***Tag No:***	A217279
Depth M:	2.1336	***Contractor:***	7241
Year Completed:	2017	***Path:***	
Well Completed Dt:	2017/02/09	***Latitude:***	43.5563800118454
Audit No:	Z253455	***Longitude:***	-79.5809493768346

128 ***1 of 1*** ***E/45.9*** ***79.8 / 0.00*** ***ON*** ***WWIS***

Well ID:	7282791	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	0	***Date Received:***	13-Mar-2017 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z253454	***Contractor:***	7241
Tag:	A185650	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY		
Site Info:			

DRAFT

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2017/02/10
Year Completed: 2017
Depth (m):
Latitude: 43.5563972464566
Longitude: -79.5808870683975
Path:

Bore Hole Information

Bore Hole ID: 1006367887
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10-Feb-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 614621.00
North83: 4823583.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006583047
Layer:
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1006583052
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1006583046
Casing No: 0
Comment:
Alt Name:

DRAFT

Construction Record - Casing

Casing ID:	1006583050
Layer:	
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006583051
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Water Details

Water ID:	1006583049
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006583048
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Links

Bore Hole ID:	1006367887	***Tag No:***	A185650
Depth M:		***Contractor:***	7241
Year Completed:	2017	***Path:***	
Well Completed Dt:	2017/02/10	***Latitude:***	43.5563972464566
Audit No:	Z253454	***Longitude:***	-79.5808870683975

129 ***1 of 1*** ***NW/46.4*** ***79.8 / 0.00*** ***ON*** ***BORE***

Borehole ID:	640722	***Inclin FLG:***	No
OGF ID:	215541118	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:		***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:		***Township:***	

DRAFT

Sec. Water Use:		***Latitude DD:***	43.557492
Total Depth m:	3	***Longitude DD:***	-79.582179
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	614515
Drill Method:		***Northing:***	4823703
Orig Ground Elev m:	82.3	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	80.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218493316	***Mat Consistency:***	Dense
Top Depth:	.9	***Material Moisture:***	
Bottom Depth:	3	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:	Till	***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY,TILL.BROWN,GLACIAL,DENSE, AGE GLACIAL.		

Geology Stratum ID:	218493315	***Mat Consistency:***	
Top Depth:	.1	***Material Moisture:***	
Bottom Depth:	.9	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:	Stones	***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY, STONES. BROWN,FLUVIO-GLACIAL, AGE GLACIAL.		

Geology Stratum ID:	218493313	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218493314	***Mat Consistency:***	
Top Depth:	.1	***Material Moisture:***	
Bottom Depth:	.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	ASPHALT. GRANULAR.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies

DRAFT

Confidence:		**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 086880 NTS_Sheet: 30M12A		
Confiden 1:			

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

130 ***1 of 2*** ***ENE/46.4*** ***79.4 / -0.49*** ***ON*** ***BORE***

Borehole ID:	641043	**Inclin FLG:**	No
OGF ID:	215541438	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1969	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.559126
Total Depth m:	2	**Longitude DD:**	-79.572359
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615305
Drill Method:	Power auger	**Northing:**	4823898
Orig Ground Elev m:	80.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.5		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494552	**Mat Consistency:**	
Top Depth:	.2	**Material Moisture:**	Moist
Bottom Depth:	.5	**Material Texture:**	
Material Color:	Black	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. BLACK,ALLUVIAL,MOIST, AGE POST-GLACIAL.		

Geology Stratum ID:	218494554	**Mat Consistency:**	Dense
Top Depth:	1	**Material Moisture:**	
Bottom Depth:	2	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT,SAND.GREY,BROWN,GLACIAL,DENSE, AGE GLACIAL.		

DRAFT

Geology Stratum ID:	218494550	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218494551	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Silt	**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,GRAVEL,SAND, SILT. BROWN.		

Geology Stratum ID:	218494553	**Mat Consistency:**	Stiff
Top Depth:	.5	**Material Moisture:**	
Bottom Depth:	1	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	CLAY,SAND,SILT. BROWN,ALLUVIAL,STIFF, AGE POST-GLACIAL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 090090 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

130 ***2 of 2*** ***ENE/46.4*** ***79.4 / -0.49*** ***ON*** ***BORE***

Borehole ID:	641258	**Inclin FLG:**	No
OGF ID:	215541653	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1967	**Municipality:**	
Static Water Level:		**Lot:**	

DRAFT

Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.559126
Total Depth m:	1.5	***Longitude DD:***	-79.572359
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	615305
Drill Method:	Power auger	***Northing:***	4823898
Orig Ground Elev m:	80.4	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	79.5		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218495421	***Mat Consistency:***	
Top Depth:	.6	***Material Moisture:***	Moist
Bottom Depth:	1.1	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:		***Depositional Gen:***	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SAND,SILT. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.		

Geology Stratum ID:	218495418	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	0	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218495419	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.2	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Fill	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:	Gravel	***Depositional Gen:***	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,SILT, GRAVEL. BROWN.		

Geology Stratum ID:	218495420	***Mat Consistency:***	
Top Depth:	.2	***Material Moisture:***	
Bottom Depth:	.6	***Material Texture:***	
Material Color:	Blue	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:		***Depositional Gen:***	lacustrine
Gsc Material Description:			
Stratum Description:	SAND,CLAY,SILT. BLUE,LACUSTRINE,AGE GLACIAL.		

Geology Stratum ID:	218495422	***Mat Consistency:***	Dense
Top Depth:	1.1	***Material Moisture:***	
Bottom Depth:	1.5	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Till	***Geologic Formation:***	

DRAFT

Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT,SAND.GREY,BROWN,GLACIAL,VERY DENSE,AGE GLACIAL. FF, AGE **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 092240 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

131 | ***1 of 1*** | ***E/46.5*** | ***79.8 / 0.00*** | ***158 Lakeshore Rd E Mississauga ON L5G1E9*** | ***EHS***

Order No:	20161123116	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	30-NOV-16	**Search Radius (km):**	.2
Date Received:	23-NOV-16	**X:**	-79.580955
Previous Site Name:		**Y:**	43.556369
Lot/Building Size:			
Additional Info Ordered:			

---

132 | ***1 of 1*** | ***NNE/46.7*** | ***80.8 / 1.00*** | ***ON*** | ***BORE***

Borehole ID:	640891	**Inclin FLG:**	No
OGF ID:	215541286	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	1900	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.557744
Total Depth m:	3	**Longitude DD:**	-79.580687
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614635
Drill Method:		**Northing:**	4823733
Orig Ground Elev m:	82.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	81.8		
Concession:			
Location D:			
Survey D:			
Comments:			

DRAFT

Borehole Geology Stratum

Geology Stratum ID:	218493936	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218493939	***Mat Consistency:***	Dense
Top Depth:	.5	***Material Moisture:***	
Bottom Depth:	3	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:	Till	***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND,TILL.GLACIAL,DENSE,AGE GLACIAL. FLUVIO-GLACIAL **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218493937	***Mat Consistency:***	
Top Depth:	.1	***Material Moisture:***	
Bottom Depth:	.2	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Gravel	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	GRAVEL. CRUSHED.		

Geology Stratum ID:	218493938	***Mat Consistency:***	
Top Depth:	.2	***Material Moisture:***	
Bottom Depth:	.5	***Material Texture:***	
Material Color:	Dark	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:		***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY. DARK,FLUVIO-GLACIAL, AGE GLACIAL.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:		***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 088570 NTS_Sheet: 30M12A		
Confiden 1:			

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level

DRAFT

Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

133 **1 of 1** **WSW/46.9** **79.3 / -0.50** **SPL**

PIONEER PETROLEUMS LTD.
PIONEER GAS STATION AT 150 LAKESHORE
SERVICE STATION
MISSISSAUGA CITY ON

Ref No:	144489	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	8/1/1997	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	UNKNOWN	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	21102
Nature of Impact:	Air Pollution	**Site Lot:**	
Receiving Medium:	AIR	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	F.D., WORKS
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	8/1/1997	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	UNKNOWN	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PIONEER PETROLEUMS: LEAK OF PROPANE FROM STORAGE TANK, ISOLATED.		
Contaminant Qty:			

134 **1 of 1** **W/47.6** **79.8 / 0.00** **BORE**

ON

Borehole ID:	646208	**Inclin FLG:**	No
OGF ID:	215546591	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	MAY-1968	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.557073
Total Depth m:	4.6	**Longitude DD:**	-79.584665
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614315
Drill Method:	Diamond Drill	**Northing:**	4823653
Orig Ground Elev m:	82.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	83		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

DRAFT

Geology Stratum ID:	218514035	**Mat Consistency:**	Hard
Top Depth:	3.9	**Material Moisture:**	
Bottom Depth:	4.6	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Shale	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SHALE. GREY,HARD. 014 015 00000032000700363004 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218514034	**Mat Consistency:**	Dense
Top Depth:	2.1	**Material Moisture:**	
Bottom Depth:	3.9	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SILT,CLAY,SAND. GREY,LACUSTRINE,DENSE, AGE GLACIAL.		

Geology Stratum ID:	218514033	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	2.1	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	SAND,SILT. BROWN,GLACIAL,DENSE, AGE GLACIAL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR2.txt RecordID: 142300 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

135 ***1 of 1*** ***WNW/48.2*** ***79.8 / 0.00*** ***ON*** ***WWIS***

Well ID:	7378959	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	29-Jan-2021 00:00:00
Water Type:		**Selected Flag:**	TRUE

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Casing Material:		**Abandonment Rec:**	
Audit No:	Z348116	**Contractor:**	7644
Tag:	A312088	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

Bore Hole Information

Bore Hole ID:	1008614892	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614318.00
Code OB Desc:		**North83:**	4823654.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	18-Dec-2020 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Links

Bore Hole ID:	1008614892	**Tag No:**	A312088
Depth M:		**Contractor:**	7644
Year Completed:	2020	**Path:**	
Well Completed Dt:	2020/12/18	**Latitude:**	43.5570828472105
Audit No:	Z348116	**Longitude:**	-79.5846223957281

---

136 **1 of 1** **E/48.3** **79.8 / 0.00** **158 LAKESHJORE RD E**
Mississauga ON **WWIS**

Well ID:	7284534	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned Monitoring and Test Hole	**Date Received:**	07-Apr-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z246109	**Contractor:**	7147
Tag:	A217251	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		

DRAFT

Site Info:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2017/03/28
Year Completed: 2017
Depth (m):
Latitude: 43.5563530075109
Longitude: -79.5809500106593
Path:

Bore Hole Information

Bore Hole ID: 1006376930
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 28-Mar-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 614616.00
North83: 4823578.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006633151
Layer:
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006633157
Layer: 1
Plug From: 0.0
Plug To: 0.20000000298023224
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006633158
Layer: 2

DRAFT

Plug From: 0.20000000298023224
Plug To: 2.0999999046325684
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006633159
Layer: 3
Plug From:
Plug To: 3.0999999046325684
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006633156
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1006633150
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006633154
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 0.6000000238418579
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006633155
Layer: 1
Slot: .01
Screen Top Depth: 0.6000000238418579
Screen End Depth: 2.0999999046325684
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4.300000190734863

Water Details

Water ID: 1006633153
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 0.15000000596046448
Water Found Depth UOM: m

DRAFT

Hole Diameter

Hole ID:	1006633152
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1006376930	***Tag No:***	A217251
Depth M:		***Contractor:***	7147
Year Completed:	2017	***Path:***	728\7284534.pdf
Well Completed Dt:	2017/03/28	***Latitude:***	43.5563530075109
Audit No:	Z246109	***Longitude:***	-79.5809500106593

---

137 ***1 of 1*** ***SE/48.3*** ***77.1 / -2.72*** ***ON*** ***AST***

OGF ID:	1200714527
Sub Type:	Petroleum Tank
Sub Type No:	1332
Location Accuracy:	Within 10 metres
Sensitivity Class:	Non-Sensitive
Sensitivity Date:	20070106
Sensitivity Rationale:	No Restriction Needed
Verification Flag:	Verified
Verification Date:	19980522
Business Effective Dt Flag:	Estimated
Business Effective Dt:	19980522
Sys Calcu Area:	16.5
Sys Calcu Length:	0.0
User Calc Metric:	0.0
Effective Date/Time:	19980522

---

138 ***1 of 1*** ***SE/48.5*** ***79.8 / 0.00*** ***158 LAKESHORE RD E Mississauga ON*** ***WWIS***

Well ID:	7282792	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	0	***Date Received:***	13-Mar-2017 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z253456	***Contractor:***	7241
Tag:	A185651	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY		
Site Info:			

PDF URL (Map):

DRAFT

Additional Detail(s) (Map)

Well Completed Date:	2017/02/09
Year Completed:	2017
Depth (m):	2.1336
Latitude:	43.5563269250638
Longitude:	-79.5810249074622
Path:	

Bore Hole Information

Bore Hole ID:	1006367890	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614610.00
Code OB Desc:		***North83:***	4823575.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	09-Feb-2017 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006583077
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	17
Mat2 Desc:	SHALE
Mat3:	92
Mat3 Desc:	WEATHERED
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006583078
Layer:	2
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	7.0
Formation End Depth UOM:	ft

Annular Space/Abandonment

DRAFT

Sealing Record

Plug ID:	1006583085
Layer:	2
Plug From:	1.0
Plug To:	7.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006583084
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006583083
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1006583076
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006583081
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	2.0
Casing Diameter:	1.25
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006583082
Layer:	1
Slot:	10
Screen Top Depth:	2.0
Screen End Depth:	7.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	1.5

Water Details

Water ID:	1006583080
Layer:	
Kind Code:	

DRAFT

Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1006583079
Diameter: 2.25
Depth From: 0.0
Depth To: 7.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1006367890
Depth M: 2.1336
Year Completed: 2017
Well Completed Dt: 2017/02/09
Audit No: Z253456
Tag No: A185651
Contractor: 7241
Path:
Latitude: 43.5563269250638
Longitude: -79.5810249074622

---

139 **1 of 29** **WSW/48.6** **79.8 / -0.03** **PIONEER PETROLEUMS LTD.**
150 LAKESHORE EAST SERVICE STATION
MISSISSAUGA CITY ON L5G 1E9 **SPL**

Ref No: 111251
Site No:
Incident Dt: 3/19/1995
Year:
Incident Cause: PIPE/HOSE LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Air Pollution
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/23/1995
Dt Document Closed:
Incident Reason: EQUIPMENT FAILURE
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: PIONEER PETROLEUM-UKN QTYGASOLINE TO GRND,LEAK DETECTOR LINE LEAK.
Contaminant Qty:
Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 21102
Site Lot:
Site Conc:
Northing:
Easting: MCCR
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

---

139 **2 of 29** **WSW/48.6** **79.8 / -0.03** **PIONEER PETROLEUMS**
150 LAKESHORE RD E
MISSISSAUGA ON L5G 1E9 **RST**

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone:
List Name:
Description:

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
139	3 of 29	WSW/48.6	79.8 / -0.03	PIONEER PETROLEUMS LTD. 150 LAKESHORE RD E SERVICE STATION MISSISSAUGA CITY ON L5G 1E9	SPL

Ref No:	195837	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	3/2/2001	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	OTHER TRANSPORTATION ACCIDENT	**Sector Type:**	
Incident Event:		**Agency Involved:**	FIRE DEPT., POLICE DEPT.,
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Possible	**Site Municipality:**	21102
Nature of Impact:	Air Pollution	**Site Lot:**	
Receiving Medium:	Air	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	3/2/2001	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	UNKNOWN	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: PIONEER STATION: UKN AMT PROPANE TO AIR. DUE TO MVA. F/D, P/D.

Contaminant Qty:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
139	4 of 29	WSW/48.6	79.8 / -0.03	PIONEER ENERGY MANAGEMENT INC. 150 LAKESHORE RD E MISSISSAUGA ON L5G 1E9	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	9673965	**Expired Date:**	3/17/1993
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:		**Facility Location:**	
Instance Type:	FS Facility	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			

DRAFT

TSSA Program Area:
TSSA Program Area 2:
Description:
Original Source: EXP
Record Date: Up to May 2013

---

139 | ***5 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***Pioneer Energy LP*** ***150 Lakeshore Road East*** ***Mississauga ON L5G 1E9*** | ***GEN***

Generator No: ON9285568
SIC Code: 447110
SIC Description:
Approval Years: 2011
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

---

139 | ***6 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PARKLAND CORPORATION*** ***150 LAKESHORE RD E MISSISSAUGA L5G 1E9*** ***ON CA*** ***ON*** | ***FST***

Instance No: 64523553
Status:
Cont Name:
Instance Type: FS Liquid Fuel Tank
Item:
Item Description: FS Liquid Fuel Tank
Tank Type: Double Wall UST
Install Date: 3/20/2012 2:36:51 PM
Install Year: 2011
Years in Service:
Model: NULL
Description:
Capacity: 60000
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protect:
Facility Type: FS Liquid Fuel Tank
Parent Facility Type: FS Gasoline Station - Self Serve
Facility Location:
Device Installed Location: 150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA

Manufacturer:
Serial No:
Ulc Standard:
Quantity:
Unit of Measure:
Fuel Type: Gasoline
Fuel Type2: Gasoline
Fuel Type3: NULL
Piping Steel:
Piping Galvanized:
Tanks Single Wall St:
Piping Underground:
No Underground:
Panam Related:
Panam Venue:

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: PARKLAND CORPORATION
Item: FS LIQUID FUEL TANK

---

139 | ***7 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PARKLAND CORPORATION*** ***150 LAKESHORE RD E MISSISSAUGA L5G 1E9*** ***ON CA*** ***ON*** | ***FST***

Instance No: 64523552
Status:
Cont Name:
Instance Type: FS Liquid Fuel Tank
Item:
Item Description: FS Liquid Fuel Tank
Tank Type: Double Wall UST
Install Date: 3/20/2012 2:36:51 PM
Install Year: 2011

Manufacturer:
Serial No:
Ulc Standard:
Quantity:
Unit of Measure:
Fuel Type: Gasoline
Fuel Type2: Diesel
Fuel Type3: NULL
Piping Steel:

DRAFT

Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	60000	**No Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:	NULL	**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:			
Device Installed Location:	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA		

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	PARKLAND CORPORATION
Item:	FS LIQUID FUEL TANK

---

139 | ***8 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***Pioneer Energy LP*** ***150 Lakeshore Road East*** ***Mississauga ON L5G 1E9*** | ***GEN***

Generator No:	ON9285568	**Status:**	
SIC Code:	447110	**Co Admin:**	
SIC Description:	Gasoline Stations with Convenience Stores	**Choice of Contact:**	
Approval Years:	2012	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

---

139 | ***9 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PIONEER ENERGY MANAGEMENT INC*** ***150 LAKESHORE RD E MISSISSAUGA L5G 1E9*** ***ON CA*** ***ON*** | ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	11207128	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	NULL
Instance ID:		**Facility Location:**	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA
Instance Type:		**Facility Type:**	FS LIQUID FUEL TANK
Instance Creation Dt:	10/2/1989	**Fuel Type 2:**	NULL
Instance Install Dt:	10/2/1989	**Fuel Type 3:**	NULL
Item Description:	FS Liquid Fuel Tank	**Panam Related:**	NULL
Manufacturer:	NULL	**Panam Venue Nm:**	NULL
Model:	NULL	**External Identifier:**	NULL
Serial No:	NULL	**Item:**	
ULC Standard:	NULL	**Piping Steel:**	
Quantity:	1	**Piping Galvanized:**	
Unit of Measure:	EA	**Tank Single Wall St:**	
Overfill Prot Type:	NULL	**Piping Underground:**	
Creation Date:	7/5/2009 1:24:13 AM	**Tank Underground:**	
Next Periodic Str DT:	NULL	**Source:**	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		
TSSA Statutory Interval:	NULL		
TSSA Recd Insp Interva:	NULL		
TSSA Recd Tolerance:	NULL		

DRAFT

TSSA Program Area:	NULL
TSSA Program Area 2:	NULL
Description:	NULL
Original Source:	EXP
Record Date:	31-JUL-2020

139 ***10 of 29*** ***WSW/48.6*** ***79.8 / -0.03*** ***PIONEER ENERGY MANAGEMENT INC*** ***DTNK***
150 LAKESHORE RD E MISSISSAUGA L5G 1E9
ON CA
ON

Delisted Expired Fuel Safety Facilities

Instance No:	11207142	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	NULL
Instance ID:		***Facility Location:***	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA
Instance Type:		***Facility Type:***	FS LIQUID FUEL TANK
Instance Creation Dt:	5/18/1993	***Fuel Type 2:***	NULL
Instance Install Dt:	5/18/1993	***Fuel Type 3:***	NULL
Item Description:	FS Liquid Fuel Tank	***Panam Related:***	NULL
Manufacturer:	NULL	***Panam Venue Nm:***	NULL
Model:	NULL	***External Identifier:***	NULL
Serial No:	NULL	***Item:***	
ULC Standard:	NULL	***Piping Steel:***	
Quantity:	1	***Piping Galvanized:***	
Unit of Measure:	EA	***Tank Single Wall St:***	
Overfill Prot Type:	NULL	***Piping Underground:***	
Creation Date:	7/5/2009 1:24:14 AM	***Tank Underground:***	
Next Periodic Str DT:	NULL	***Source:***	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		
TSSA Statutory Interval:	NULL		
TSSA Recd Insp Interva:	NULL		
TSSA Recd Tolerance:	NULL		
TSSA Program Area:	NULL		
TSSA Program Area 2:	NULL		
Description:	NULL		
Original Source:	EXP		
Record Date:	31-JUL-2020		

139 ***11 of 29*** ***WSW/48.6*** ***79.8 / -0.03*** ***PIONEER ENERGY MANAGEMENT INC*** ***DTNK***
150 LAKESHORE RD E MISSISSAUGA L5G 1E9
ON CA
ON

Delisted Expired Fuel Safety Facilities

Instance No:	11207073	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	NULL
Instance ID:		***Facility Location:***	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA
Instance Type:		***Facility Type:***	FS LIQUID FUEL TANK
Instance Creation Dt:	10/2/1989	***Fuel Type 2:***	NULL
Instance Install Dt:	10/2/1989	***Fuel Type 3:***	NULL
Item Description:	FS Liquid Fuel Tank	***Panam Related:***	NULL

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Manufacturer:	NULL	***Panam Venue Nm:***	NULL
Model:	NULL	***External Identifier:***	NULL
Serial No:	NULL	***Item:***	
ULC Standard:	NULL	***Piping Steel:***	
Quantity:	1	***Piping Galvanized:***	
Unit of Measure:	EA	***Tank Single Wall St:***	
Overfill Prot Type:	NULL	***Piping Underground:***	
Creation Date:	7/5/2009 1:24:14 AM	***Tank Underground:***	
Next Periodic Str DT:	NULL	***Source:***	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		
TSSA Statutory Interval:	NULL		
TSSA Recd Insp Interva:	NULL		
TSSA Recd Tolerance:	NULL		
TSSA Program Area:	NULL		
TSSA Program Area 2:	NULL		
Description:	NULL		
Original Source:	EXP		
Record Date:	31-JUL-2020		

139	***12 of 29***	***WSW/48.6***	***79.8 / -0.03***	***PIONEER ENERGY MANAGEMENT INC*** ***150 LAKESHORE RD E MISSISSAUGA L5G 1E9*** ***ON CA*** ***ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	11207096	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	NULL
Instance ID:		***Facility Location:***	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA
Instance Type:		***Facility Type:***	FS LIQUID FUEL TANK
Instance Creation Dt:	10/2/1989	***Fuel Type 2:***	NULL
Instance Install Dt:	10/2/1989	***Fuel Type 3:***	NULL
Item Description:	FS Liquid Fuel Tank	***Panam Related:***	NULL
Manufacturer:	NULL	***Panam Venue Nm:***	NULL
Model:	NULL	***External Identifier:***	NULL
Serial No:	NULL	***Item:***	
ULC Standard:	NULL	***Piping Steel:***	
Quantity:	1	***Piping Galvanized:***	
Unit of Measure:	EA	***Tank Single Wall St:***	
Overfill Prot Type:	NULL	***Piping Underground:***	
Creation Date:	7/5/2009 1:24:16 AM	***Tank Underground:***	
Next Periodic Str DT:	NULL	***Source:***	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		
TSSA Statutory Interval:	NULL		
TSSA Recd Insp Interva:	NULL		
TSSA Recd Tolerance:	NULL		
TSSA Program Area:	NULL		
TSSA Program Area 2:	NULL		
Description:	NULL		
Original Source:	EXP		
Record Date:	31-JUL-2020		

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
139	13 of 29	WSW/48.6	79.8 / -0.03	PIONEER ENERGY MANAGEMENT INC 150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	11207160	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	NULL
Instance ID:		**Facility Location:**	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA
Instance Type:		**Facility Type:**	FS LIQUID FUEL TANK
Instance Creation Dt:	5/18/1993	**Fuel Type 2:**	NULL
Instance Install Dt:	5/18/1993	**Fuel Type 3:**	NULL
Item Description:	FS Liquid Fuel Tank	**Panam Related:**	NULL
Manufacturer:	NULL	**Panam Venue Nm:**	NULL
Model:	NULL	**External Identifier:**	NULL
Serial No:	NULL	**Item:**	
ULC Standard:	NULL	**Piping Steel:**	
Quantity:	1	**Piping Galvanized:**	
Unit of Measure:	EA	**Tank Single Wall St:**	
Overfill Prot Type:	NULL	**Piping Underground:**	
Creation Date:	7/5/2009 1:24:17 AM	**Tank Underground:**	
Next Periodic Str DT:	NULL	**Source:**	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		
TSSA Statutory Interval:	NULL		
TSSA Recd Insp Interva:	NULL		
TSSA Recd Tolerance:	NULL		
TSSA Program Area:	NULL		
TSSA Program Area 2:	NULL		
Description:	NULL		
Original Source:	EXP		
Record Date:	31-JUL-2020		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
139	14 of 29	WSW/48.6	79.8 / -0.03	PIONEER ENERGY MANAGEMENT INC 150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	11207111	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	NULL
Instance ID:		**Facility Location:**	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA
Instance Type:		**Facility Type:**	FS LIQUID FUEL TANK
Instance Creation Dt:	10/2/1989	**Fuel Type 2:**	NULL
Instance Install Dt:	10/2/1989	**Fuel Type 3:**	NULL
Item Description:	FS Liquid Fuel Tank	**Panam Related:**	NULL
Manufacturer:	NULL	**Panam Venue Nm:**	NULL
Model:	NULL	**External Identifier:**	NULL
Serial No:	NULL	**Item:**	
ULC Standard:	NULL	**Piping Steel:**	
Quantity:	1	**Piping Galvanized:**	
Unit of Measure:	EA	**Tank Single Wall St:**	
Overfill Prot Type:	NULL	**Piping Underground:**	

DRAFT

Creation Date:	7/5/2009 1:24:20 AM	***Tank Underground:***	
Next Periodic Str DT:	NULL	***Source:***	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		
TSSA Statutory Interval:	NULL		
TSSA Recd Insp Interva:	NULL		
TSSA Recd Tolerance:	NULL		
TSSA Program Area:	NULL		
TSSA Program Area 2:	NULL		
Description:	NULL		
Original Source:	EXP		
Record Date:	31-JUL-2020		

139	***15 of 29***	***WSW/48.6***	***79.8 / -0.03***	***PARKLAND FUEL CORPORATION*** ***150 LAKESHORE RD E MISSISSAUGA L5G 1E9*** ***ON CA*** ***ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	11421534	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	NULL
Instance ID:		***Facility Location:***	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA
Instance Type:		***Facility Type:***	FS LIQUID FUEL TANK
Instance Creation Dt:	7/19/2000 8:15:15 PM	***Fuel Type 2:***	NULL
Instance Install Dt:	5/8/2009	***Fuel Type 3:***	NULL
Item Description:	FS Liquid Fuel Tank	***Panam Related:***	NULL
Manufacturer:	NULL	***Panam Venue Nm:***	NULL
Model:	NULL	***External Identifier:***	NULL
Serial No:	NULL	***Item:***	
ULC Standard:	NULL	***Piping Steel:***	
Quantity:	1	***Piping Galvanized:***	
Unit of Measure:	EA	***Tank Single Wall St:***	
Overfill Prot Type:	NULL	***Piping Underground:***	
Creation Date:	7/5/2009 1:25:15 AM	***Tank Underground:***	
Next Periodic Str DT:	NULL	***Source:***	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		
TSSA Statutory Interval:	NULL		
TSSA Recd Insp Interva:	NULL		
TSSA Recd Tolerance:	NULL		
TSSA Program Area:	NULL		
TSSA Program Area 2:	NULL		
Description:	2009VBSREGULAR		
Original Source:	EXP		
Record Date:	31-JUL-2020		

139	***16 of 29***	***WSW/48.6***	***79.8 / -0.03***	***PARKLAND FUEL CORPORATION*** ***150 LAKESHORE RD E MISSISSAUGA L5G 1E9*** ***ON CA*** ***ON***	***DTNK***

Delisted Expired Fuel Safety

DRAFT

Facilities

Instance No:	11421513	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	NULL
Instance ID:		***Facility Location:***	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA
Instance Type:		***Facility Type:***	FS LIQUID FUEL TANK
Instance Creation Dt:	7/19/2000 8:15:15 PM	***Fuel Type 2:***	NULL
Instance Install Dt:	5/8/2009	***Fuel Type 3:***	NULL
Item Description:	FS Liquid Fuel Tank	***Panam Related:***	NULL
Manufacturer:	NULL	***Panam Venue Nm:***	NULL
Model:	NULL	***External Identifier:***	NULL
Serial No:	NULL	***Item:***	
ULC Standard:	NULL	***Piping Steel:***	
Quantity:	1	***Piping Galvanized:***	
Unit of Measure:	EA	***Tank Single Wall St:***	
Overfill Prot Type:	NULL	***Piping Underground:***	
Creation Date:	7/5/2009 1:25:17 AM	***Tank Underground:***	
Next Periodic Str DT:	NULL	***Source:***	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		
TSSA Statutory Interval:	NULL		
TSSA Recd Insp Interva:	NULL		
TSSA Recd Tolerance:	NULL		
TSSA Program Area:	NULL		
TSSA Program Area 2:	NULL		
Description:	2009VBSREGULAR		
Original Source:	EXP		
Record Date:	31-JUL-2020		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
139	17 of 29	WSW/48.6	79.8 / -0.03	PARKLAND FUEL CORPORATION 150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	11421563	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	NULL
Instance ID:		***Facility Location:***	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA
Instance Type:		***Facility Type:***	FS LIQUID FUEL TANK
Instance Creation Dt:	7/19/2000 8:15:15 PM	***Fuel Type 2:***	NULL
Instance Install Dt:	5/8/2009	***Fuel Type 3:***	NULL
Item Description:	FS Liquid Fuel Tank	***Panam Related:***	NULL
Manufacturer:	NULL	***Panam Venue Nm:***	NULL
Model:	NULL	***External Identifier:***	NULL
Serial No:	NULL	***Item:***	
ULC Standard:	NULL	***Piping Steel:***	
Quantity:	1	***Piping Galvanized:***	
Unit of Measure:	EA	***Tank Single Wall St:***	
Overfill Prot Type:	NULL	***Piping Underground:***	
Creation Date:	7/5/2009 1:25:15 AM	***Tank Underground:***	
Next Periodic Str DT:	NULL	***Source:***	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		

DRAFT

TSSA Statutory Interval:	NULL
TSSA Recd Insp Interva:	NULL
TSSA Recd Tolerance:	NULL
TSSA Program Area:	NULL
TSSA Program Area 2:	NULL
Description:	2009VBSSUCTION SYSTEM - MOTOR UNDER PUMP
Original Source:	EXP
Record Date:	31-JUL-2020

---

139 | ***18 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PARKLAND FUEL CORPORATION*** | ***DTNK***

150 LAKESHORE RD E MISSISSAUGA L5G 1E9
ON CA
ON

Delisted Expired Fuel Safety Facilities

Instance No:	11421544	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	NULL
Instance ID:		***Facility Location:***	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA
Instance Type:		***Facility Type:***	FS LIQUID FUEL TANK
Instance Creation Dt:	7/19/2000 8:15:15 PM	***Fuel Type 2:***	NULL
Instance Install Dt:	5/8/2009	***Fuel Type 3:***	NULL
Item Description:	FS Liquid Fuel Tank	***Panam Related:***	NULL
Manufacturer:	NULL	***Panam Venue Nm:***	NULL
Model:	NULL	***External Identifier:***	NULL
Serial No:	NULL	***Item:***	
ULC Standard:	NULL	***Piping Steel:***	
Quantity:	1	***Piping Galvanized:***	
Unit of Measure:	EA	***Tank Single Wall St:***	
Overfill Prot Type:	NULL	***Piping Underground:***	
Creation Date:	7/5/2009 1:25:20 AM	***Tank Underground:***	
Next Periodic Str DT:	NULL	***Source:***	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		
TSSA Statutory Interval:	NULL		
TSSA Recd Insp Interva:	NULL		
TSSA Recd Tolerance:	NULL		
TSSA Program Area:	NULL		
TSSA Program Area 2:	NULL		
Description:	2009VBSSUPER		
Original Source:	EXP		
Record Date:	31-JUL-2020		

---

139 | ***19 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PIONEER ENERGY MANAGEMENT INC*** | ***FST***

150 LAKESHORE RD E MISSISSAUGA L5G 1E9
ON CA
ON

Instance No:	11207073	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:		***Quantity:***	
Item:		***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	***Fuel Type2:***	NULL
Install Date:	10/2/1989	***Fuel Type3:***	NULL
Install Year:	1978	***Piping Steel:***	

DRAFT

Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	22700	***No Underground:***	
Tank Material:	Steel	***Panam Related:***	
Corrosion Protect:	Internally Lined	***Panam Venue:***	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA		

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	PIONEER ENERGY MANAGEMENT INC
Item:	FS LIQUID FUEL TANK

---

139 | ***20 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PIONEER ENERGY MANAGEMENT INC***
150 LAKESHORE RD E MISSISSAUGA L5G 1E9
ON CA
ON | ***FST***

Instance No:	11207142	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:		***Quantity:***	
Item:		***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	***Fuel Type2:***	NULL
Install Date:	5/18/1993	***Fuel Type3:***	NULL
Install Year:	1978	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	13600	***No Underground:***	
Tank Material:	Steel	***Panam Related:***	
Corrosion Protect:	Sacrificial anode	***Panam Venue:***	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA		

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	PIONEER ENERGY MANAGEMENT INC
Item:	FS LIQUID FUEL TANK

---

139 | ***21 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***150 LAKESHORE RD E***
MISSISSAUGA ON L5G 1E9 | ***DTNK***

Delisted Fuel Storage Tank

Instance No:	64523550	***Creation Date:***	
Status:	Active	***Overfill Prot Type:***	
Instance Type:		***Facility Location:***	
Fuel Type:		***Piping SW Steel:***	0
Cont Name:		***Piping SW Galvan:***	0
Capacity:		***Tanks SW Steel:***	0

DRAFT

Tank Material:		**Piping Underground:**	3
Corrosion Prot:		**No Underground:**	2
Tank Type:		**Max Hazard Rank:**	
Install Year:		**Max Hazard Rank 1:**	
Facility Type:		**Nxt Period Start Dt:**	
Device Installed Loc:		**Program Area 1:**	
Fuel Type 2:		**Program Area 2:**	
Fuel Type 3:		**Nxt Period Strt Dt 2:**	
Item:	FS GASOLINE STATION - SELF SERVE	**Risk Based Periodic:**	
Item Description:		**Vol of Directives:**	
Model:		**Years in Service:**	
Description:		**Created Date:**	
Instance Creation Dt:		**Federal Device:**	
Instance Install Dt:		**Periodic Exempt:**	
Manufacturer:		**Statutory Interval:**	
Serial No:		**Rcomnd Insp Interval:**	
ULC Standard:		**Recommended Toler:**	
Quantity:		**Panam Venue Name:**	
Unit of Measure:		**External Identifier:**	
Parent Fac Type:			
TSSA Base Sched Cycle 1:			
TSSA Base Sched Cycle 2:			
Original Source:	FST		
Record Date:	31-MAY-2021		

---

139 | ***22 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PARKLAND CORPORATION*** | ***FST***

150 LAKESHORE RD E MISSISSAUGA L5G 1E9

ON CA

ON

Instance No:	11421513	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:		**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Double Wall UST	**Fuel Type2:**	NULL
Install Date:	5/8/2009	**Fuel Type3:**	NULL
Install Year:	1995	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	50000	**No Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:	Fiberglass	**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA		

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	PARKLAND CORPORATION
Item:	FS LIQUID FUEL TANK

---

139 | ***23 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PIONEER ENERGY MANAGEMENT INC*** | ***FST***

150 LAKESHORE RD E MISSISSAUGA L5G 1E9

ON CA

ON

Instance No:	11207128	**Manufacturer:**	

DRAFT

Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:		**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	10/2/1989	**Fuel Type3:**	NULL
Install Year:	1978	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	22700	**No Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:	Internally Lined	**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA		

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	PIONEER ENERGY MANAGEMENT INC
Item:	FS LIQUID FUEL TANK

---

139 | ***24 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PARKLAND CORPORATION***
150 LAKESHORE RD E MISSISSAUGA L5G 1E9
ON CA
ON | ***FST***

Instance No:	11421544	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:		**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Double Wall UST	**Fuel Type2:**	NULL
Install Date:	5/8/2009	**Fuel Type3:**	NULL
Install Year:	1995	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	29000	**No Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:	Fiberglass	**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA		

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	PARKLAND CORPORATION
Item:	FS LIQUID FUEL TANK

---

139 | ***25 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PIONEER ENERGY MANAGEMENT INC***
150 LAKESHORE RD E MISSISSAUGA L5G 1E9
ON CA
ON | ***FST***

DRAFT

Instance No:	11207160	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:		**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	5/18/1993	**Fuel Type3:**	NULL
Install Year:	1978	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	13600	**No Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:	Sacrificial anode	**Panam Venue:**	
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: 150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: PIONEER ENERGY MANAGEMENT INC
Item: FS LIQUID FUEL TANK

---

139 | ***26 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PIONEER ENERGY MANAGEMENT INC 150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON*** | ***FST***

Instance No:	11207111	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:		**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	10/2/1989	**Fuel Type3:**	NULL
Install Year:	1978	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	22700	**No Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:	Internally Lined	**Panam Venue:**	
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: 150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: PIONEER ENERGY MANAGEMENT INC
Item: FS LIQUID FUEL TANK

---

139 | ***27 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PIONEER ENERGY MANAGEMENT INC 150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA*** | ***FST***

DRAFT

ON

Instance No:	11207096	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:		**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	10/2/1989	**Fuel Type3:**	NULL
Install Year:	1978	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	22700	**No Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:	Internally Lined	**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA		

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	PIONEER ENERGY MANAGEMENT INC
Item:	FS LIQUID FUEL TANK

---

139 | ***28 of 29*** | ***WSW/48.6*** | ***79.8 / -0.03*** | ***PARKLAND CORPORATION***
150 LAKESHORE RD E MISSISSAUGA L5G 1E9
ON CA
ON | ***FST***

Instance No:	11421563	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:		**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Diesel
Tank Type:	Double Wall UST	**Fuel Type2:**	NULL
Install Date:	5/8/2009	**Fuel Type3:**	NULL
Install Year:	1995	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	20000	**No Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:	Fiberglass	**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA		

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	PARKLAND CORPORATION
Item:	FS LIQUID FUEL TANK

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
139	29 of 29	WSW/48.6	79.8 / -0.03	PARKLAND CORPORATION 150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA ON	FST

Instance No: 11421534
Status:
Cont Name:
Instance Type:
Item:
Item Description: FS Liquid Fuel Tank
Tank Type: Double Wall UST
Install Date: 5/8/2009
Install Year: 1995
Years in Service:
Model: NULL
Description:
Capacity: 29000
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protect:
Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: 150 LAKESHORE RD E MISSISSAUGA L5G 1E9 ON CA

Manufacturer:
Serial No:
Ulc Standard:
Quantity:
Unit of Measure:
Fuel Type: Gasoline
Fuel Type2: NULL
Fuel Type3: NULL
Piping Steel:
Piping Galvanized:
Tanks Single Wall St:
Piping Underground:
No Underground:
Panam Related:
Panam Venue:

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: PARKLAND CORPORATION
Item: FS LIQUID FUEL TANK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
140	1 of 1	W/48.8	79.8 / 0.00	ON	BORE

Borehole ID: 640929
OGF ID: 215541324
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JAN-1965
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 2.1
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 81.7
Elev Reliabil Note:
DEM Ground Elev m: 81.4
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.555897
Longitude DD: -79.584259
UTM Zone: 17
Easting: 614350
Northing: 4823523
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218494122
Top Depth: 0
Bottom Depth: .1
Material Color:
Material 1: Asphalt

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:

DRAFT

Material 2: Stones
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: ASPHALT,STONES.

Geology Stratum ID: 218494126
Top Depth: .7
Bottom Depth: 2.1
Material Color:
Material 1: Silt
Material 2: Clay
Material 3: Sand
Material 4:
Gsc Material Description:
Stratum Description: SILT,CLAY,SAND. ALLUVIAL,AGE POST-GLACIAL. SAND-M **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Geology Stratum ID: 218494123
Top Depth: .1
Bottom Depth: .2
Material Color:
Material 1: Fill
Material 2: Gravel
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: FILL,GRAVEL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: fill

Geology Stratum ID: 218494124
Top Depth: .2
Bottom Depth: .4
Material Color: Brown
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SAND-MEDIUM,SILT, CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture: Medium
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Geology Stratum ID: 218494125
Top Depth: .4
Bottom Depth: .7
Material Color:
Material 1: Clay
Material 2: Sand
Material 3: Silt
Material 4:
Gsc Material Description:
Stratum Description: CLAY,SAND,SILT. ALLUVIAL,AGE POST-GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 088950 NTS_Sheet: 30M12A
Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

DRAFT

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

141 **1 of 1** **W/49.0** **78.9 / -0.92** **ON** **BORE**

Borehole ID:	833865	**Inclin FLG:**	No
OGF ID:	215585996	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	17-DEC-1959	**Municipality:**	
Static Water Level:	1.8	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.556867
Total Depth m:	5	**Longitude DD:**	-79.586819
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614141
Drill Method:	Hollow stem auger	**Northing:**	4823627
Orig Ground Elev m:	83.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	81.1		
Concession:			
Location D:	CNR AT PORT CREDIT * CREEK DIVERSION		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	6014682	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Topsoil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Topsoil **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014683	**Mat Consistency:**	Dense
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	3.7	**Material Texture:**	Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Medium to dense, light brown, silty sand with a seam of brown, sandy clay at 2.13m **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014684	**Mat Consistency:**	Dense
Top Depth:	3.7	**Material Moisture:**	
Bottom Depth:	5	**Material Texture:**	Fine
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial

DRAFT

Gsc Material Description:
Stratum Description: Dense glacial till (grey, silty clay with gravel & fine sand) **Note: Many records provided by the department have a truncated [Stratum Description] field.

---

142 **1 of 2** **ENE/51.3** **74.8 / -5.00** **ON** **BORE**

Borehole ID:	641250	**Inclin FLG:**	No
OGF ID:	215541645	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1967	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.558839
Total Depth m:	1.7	**Longitude DD:**	-79.571004
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615415
Drill Method:	Power auger	**Northing:**	4823868
Orig Ground Elev m:	79.9	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	75.4		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218495388	**Mat Consistency:**	Dense
Top Depth:	.2	**Material Moisture:**	
Bottom Depth:	1.7	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT,SAND.BROWN,GLACIAL,VERY DENSE, AGE GLACIAL. ,SILT,SA **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218495387	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Clay	**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,SILT,CLAY.BROWN.		

Geology Stratum ID:	218495386	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	0	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

DRAFT

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	M	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 092160 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

142 ***2 of 2*** ***ENE/51.3*** ***74.8 / -5.00*** ***ON*** ***BORE***

Borehole ID:	641302	***Inclin FLG:***	No
OGF ID:	215541697	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	NOV-1969	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.558839
Total Depth m:	1.7	***Longitude DD:***	-79.571004
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	615415
Drill Method:	Power auger	***Northing:***	4823868
Orig Ground Elev m:	79.9	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	75.4		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218495628	***Mat Consistency:***	Dense
Top Depth:	.2	***Material Moisture:***	
Bottom Depth:	1.7	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Till	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:	Sand	***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT,SAND.BROWN,GLACIAL,VERY DENSE, AGE GLACIAL. LT.		

Geology Stratum ID:	218495626	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	

DRAFT

Material 2: | **Geologic Group:**
Material 3: | **Geologic Period:**
Material 4: | **Depositional Gen:**
Gsc Material Description:
Stratum Description: ASPHALT.

Geology Stratum ID: 218495627 | **Mat Consistency:**
Top Depth: .1 | **Material Moisture:**
Bottom Depth: .2 | **Material Texture:**
Material Color: Brown | **Non Geo Mat Type:**
Material 1: Fill | **Geologic Formation:**
Material 2: Gravel | **Geologic Group:**
Material 3: Sand | **Geologic Period:**
Material 4: Silt | **Depositional Gen:** fill
Gsc Material Description:
Stratum Description: FILL,GRAVEL,SAND, SILT. BROWN.

Source

Source Type: Data Survey | **Source Appl:** Spatial/Tabular
Source Orig: Geological Survey of Canada | **Source Iden:** 1
Source Date: 1956-1972 | **Scale or Res:** Varies
Confidence: M | **Horizontal:** NAD27
Observatio: | **Verticalda:** Mean Average Sea Level
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 092680 NTS_Sheet: 30M12A
Confiden 1: Reliable information but incomplete.

Source List

Source Identifier: 1 | **Horizontal Datum:** NAD27
Source Type: Data Survey | **Vertical Datum:** Mean Average Sea Level
Source Date: 1956-1972 | **Projection Name:** Universal Transverse Mercator
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

---

143 | ***1 of 1*** | ***W/52.0*** | ***79.8 / 0.00*** | ***84 & 90 High Street East Mississauga ON L5G 1K4*** | ***EHS***

Order No: 20190924039 | **Nearest Intersection:**
Status: C | **Municipality:**
Report Type: RSC Report (Urban) | **Client Prov/State:** ON
Report Date: 26-SEP-19 | **Search Radius (km):** .3
Date Received: 24-SEP-19 | **X:** -79.583497
Previous Site Name: | **Y:** 43.555938
Lot/Building Size:
Additional Info Ordered: City Directory

---

144 | ***1 of 1*** | ***SE/52.2*** | ***77.2 / -2.64*** | ***ON*** | ***AST***

OGF ID: 1200714526
Sub Type: Petroleum Tank
Sub Type No: 1332
Location Accuracy: Within 10 metres
Sensitivity Class: Non-Sensitive
Sensitivity Date: 20070106
Sensitivity Rationale: No Restriction Needed
Verification Flag: Verified
Verification Date: 19980522
Business Effective Dt Flag: Estimated

DRAFT

Business Effective Dt:	19980522
Sys Calcu Area:	18.0
Sys Calcu Length:	0.0
User Calc Metric:	0.0
Effective Date/Time:	19980522

145 **1 of 1** **SSE/53.9** **79.8 / 0.00** **158 LAKESHORE RD E Mississauga ON** **WWIS**

Well ID:	7284532	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned Monitoring and Test Hole	**Date Received:**	07-Apr-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z246110	**Contractor:**	7147
Tag:	A185544	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2017/03/28
Year Completed:	2017
Depth (m):	
Latitude:	43.5562729163924
Longitude:	-79.5810261750407
Path:	

Bore Hole Information

Bore Hole ID:	1006376921	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614610.00
Code OB Desc:		**North83:**	4823569.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	28-Mar-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

DRAFT

Formation ID: 1006633112
Layer:
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006633119
Layer: 2
Plug From: 0.20000000298023224
Plug To: 1.9500000476837158
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006633118
Layer: 1
Plug From: 0.0
Plug To: 0.20000000298023224
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006633120
Layer: 3
Plug From:
Plug To: 1.9500000476837158
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006633117
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1006633111
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006633115
Layer: 1

DRAFT

Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	0.6000000238418579
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006633116
Layer:	1
Slot:	.01
Screen Top Depth:	0.6000000238418579
Screen End Depth:	1.9500000476837158
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.300000190734863

Water Details

Water ID:	1006633114
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	0.15000000596046448
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1006633113
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1006376921	**Tag No:**	A185544
Depth M:		**Contractor:**	7147
Year Completed:	2017	**Path:**	728\7284532.pdf
Well Completed Dt:	2017/03/28	**Latitude:**	43.5562729163924
Audit No:	Z246110	**Longitude:**	-79.5810261750407

---

146 | ***1 of 1*** | ***W/56.2*** | ***78.8 / -1.00*** | ***PORT CREDIT GO STATION*** ***PORT CREDIT ON*** | ***WWIS***

Well ID:	7321814	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	07-Nov-2018 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z266907	**Contractor:**	6607
Tag:	A232747	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	

DRAFT

Well Depth: ***Concession Name:***
Overburden/Bedrock: ***Easting NAD83:***
Pump Rate: ***Northing NAD83:***
Static Water Level: ***Zone:***
Clear/Cloudy: ***UTM Reliability:***
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2018/01/19
Year Completed: 2018
Depth (m): 4.5
Latitude: 43.5552750532576
Longitude: -79.5876979521631
Path:

Bore Hole Information

Bore Hole ID: 1007307140 ***Elevation:***
DP2BR: ***Elevrc:***
Spatial Status: ***Zone:*** 17
Code OB: ***East83:*** 614073.00
Code OB Desc: ***North83:*** 4823449.00
Open Hole: ***Org CS:*** UTM83
Cluster Kind: ***UTMRC:*** 4
Date Completed: 19-Jan-2018 00:00:00 ***UTMRC Desc:*** margin of error : 30 m - 100 m
Remarks: ***Location Method:*** wwr
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1007605525
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 06
Mat2 Desc: SILT
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 3.0
Formation End Depth: 4.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007605524
Layer: 2
Color: 2
General Color: GREY
Mat1: 05

DRAFT

Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	1.5
Formation End Depth:	3.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007605523
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007605532
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007605533
Layer:	2
Plug From:	0.30000001192092896
Plug To:	1.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1007605531
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1007605522
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

DRAFT

Casing ID: 1007605528
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.5
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007605529
Layer: 1
Slot: 10
Screen Top Depth: 1.5
Screen End Depth: 4.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1007605527
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1007605526
Diameter: 15.0
Depth From: 0.0
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1007307140
Depth M: 4.5
Year Completed: 2018
Well Completed Dt: 2018/01/19
Audit No: Z266907
Tag No: A232747
Contractor: 6607
Path: 732\7321814.pdf
Latitude: 43.5552750532576
Longitude: -79.5876979521631

---

147 | ***1 of 1*** | ***E/56.3*** | ***79.8 / 0.00*** | ***Autasco Group*** ***177 Lakeshore Rd E*** ***Mississauga ON L5G 4T9*** | ***SCT***

Established: 1959
Plant Size (ft²): 4000
Employment:

--Details--
Description: Quick Printing
SIC/NAICS Code: 323114

Description: Digital Printing

DRAFT

SIC/NAICS Code: 323115

Description: Manifold Business Forms Printing
SIC/NAICS Code: 323116

Description: Other Printing
SIC/NAICS Code: 323119

Description: Administrative Management and General Management Consulting Services
SIC/NAICS Code: 541611

Description: Direct Mail Advertising
SIC/NAICS Code: 541860

---

148 **1 of 1** **W/56.3** **79.8 / 0.00** **ON** **BORE**

Borehole ID: 649450
OGF ID: 215549825
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JUN-1969
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 2.1
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Digging
Orig Ground Elev m: 84.4
Elev Reliabil Note:
DEM Ground Elev m: 84.6
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.557001
Longitude DD: -79.586152
UTM Zone: 17
Easting: 614195
Northing: 4823643
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218527014
Top Depth: 0
Bottom Depth: 1.2
Material Color: Brown
Material 1: Sand
Material 2: Silt
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND,SILT. BROWN,COMPACT.

Mat Consistency: Compact
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218527015
Top Depth: 1.2
Bottom Depth: 2.1
Material Color:
Material 1: Till
Material 2: Silt
Material 3: Clay
Material 4: Sand
Gsc Material Description:
Stratum Description: TILL,SILT,CLAY,SAND.GLACIAL,STIFF. 0000001500040025GRAVEL.

Mat Consistency: Stiff
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: glacial

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	H	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR3.txt RecordID: 201090 NTS_Sheet: 30M12A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

---

149 ***1 of 1*** ***S/56.3*** ***79.8 / 0.00*** ***Parkland Fuel Corporation*** ***GEN***
152 Lakeshore Road East
Mississauga ON L5G 1E9

Generator No:	ON3030774	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Dec 2017	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 221 L
Waste Class Desc: Light fuels

---

150 ***1 of 1*** ***NNE/56.7*** ***80.8 / 1.00*** ***ON*** ***BORE***

Borehole ID:	640893	***Inclin FLG:***	No
OGF ID:	215541288	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:		***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	43.558364
Total Depth m:	3	***Longitude DD:***	-79.57993
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	614695
Drill Method:		***Northing:***	4823803
Orig Ground Elev m:	82.3	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	82		
Concession:			
Location D:			
Survey D:			
Comments:			

DRAFT

Borehole Geology Stratum

Geology Stratum ID:	218493947	***Mat Consistency:***	
Top Depth:	.2	***Material Moisture:***	
Bottom Depth:	.5	***Material Texture:***	
Material Color:	Dark	***Non Geo Mat Type:***	
Material 1:	Silt	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:	Organic	***Depositional Gen:***	organic
Gsc Material Description:			
Stratum Description:	SILT,SAND,CLAY, ORGANIC. DARK,FLUVIO-GLACIAL, AGE GLACIAL.		

Geology Stratum ID:	218493949	***Mat Consistency:***	
Top Depth:	1.4	***Material Moisture:***	Moist
Bottom Depth:	1.8	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:		***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. BROWN,FLUVIO-GLACIAL,MOIST, AGE GLACIAL.		

Geology Stratum ID:	218493950	***Mat Consistency:***	
Top Depth:	1.8	***Material Moisture:***	Moist
Bottom Depth:	2.7	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:	Till	***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND,TILL.GREY,BROWN,GLACIAL,MOIST, AGE GLACIAL.		

Geology Stratum ID:	218493948	***Mat Consistency:***	
Top Depth:	.5	***Material Moisture:***	
Bottom Depth:	1.4	***Material Texture:***	Coarse
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	beach
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE. BROWN,BEACH.		

Geology Stratum ID:	218493945	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Asphalt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218493946	***Mat Consistency:***	
Top Depth:	.1	***Material Moisture:***	
Bottom Depth:	.2	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Gravel	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:	Clay	***Depositional Gen:***	glacial

DRAFT

Gsc Material Description:
Stratum Description: GRAVEL,SILT,SAND, CLAY. FLUVIO-GLACIAL,CRUSHED, AGE GLACIAL.

Geology Stratum ID: 218493951
Top Depth: 2.7
Bottom Depth: 3
Material Color: Grey
Material 1: Clay
Material 2: Silt
Material 3: Sand
Material 4: Till
Mat Consistency: Dense
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: glacial
Gsc Material Description:
Stratum Description: CLAY,SILT,SAND,TILL.GREY,GLACIAL,DENSE, AGE GLACIAL.

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence:
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 088590 NTS_Sheet: 30M12A
Confiden 1:
Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada
Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

151 | ***1 of 4*** | ***ENE/57.3*** | ***80.0 / 0.12*** | ***HIAWATHA FOREST PRODUCTS & SERVICES***
14 HIAWATHA PARKWAY
MISSISSAUGA ON L5G 3R8 | ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type:
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:
PDF Site Location:
Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

151 | ***2 of 4*** | ***ENE/57.3*** | ***80.0 / 0.12*** | ***HIAWATHA TREE & LAWN SERVICE***
14 HIAWATHA PKY
MISSISSAUGA ON L5G 3R8 | ***PES***

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Operator	**Oper Phone No:**	
Licence Type Code:	02	**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			
PDF Site Location:			

---

151 ***3 of 4*** ***ENE/57.3*** ***80.0 / 0.12*** ***HIAWATHA TREE & LAWN SERVICE*** ***PES***
14 HIAWATHA PKY
MISSISSAUGA ON L5G3R8

Detail Licence No:		**Operator Box:**	
Licence No:	04150	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	Operator	**Oper Phone No:**	2749430
Licence Type Code:	01	**Operator Ext:**	
Licence Class:	06	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			
PDF Site Location:			

---

151 ***4 of 4*** ***ENE/57.3*** ***80.0 / 0.12*** ***HIAWATHA TREE & LAWN SERVICE*** ***PES***
14 HIAWATHA PKY
MISSISSAUGA ON L5G3R8

Detail Licence No:		**Operator Box:**	
Licence No:	04150	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	Operator	**Oper Phone No:**	2749430
Licence Type Code:	02	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

District: **MOE District:**
County: **SWP Area Name:**
Trade Name:
PDF URL:
PDF Site Location:

---

152 **1 of 1** **WSW/57.4** **79.8 / 0.00** **F.S. Port Credit Development Limited** **RSC**
15 HURONTARIO ST, MISSISSAUGA, ON, L5G 3G8
ON

RSC ID: 36704
RA No:
RSC Type:
Curr Property Use: Commercial
Ministry District: MISSISSAUGA
Filing Date: 16-Nov-07
Date Ack:
Date Returned:
Restoration Type:
Soil Type:
Criteria:
CPU Issued Sect 1686: No
Asmt Roll No:
Prop ID No (PIN): 13464-0302
Property Municipal Address: 15 HURONTARIO ST, MISSISSAUGA, ON, L5G 3G8
Mailing Address: Suite TOP FLOOR, 141 LAKESHORE RD E, MISSISSAUGA, ON, L5G 1E8
Latitude & Latitude: 43.55643840N 79.58275560W (converted from UTM)
UTM Coordinates: NAD83 17-614470-4823585
Consultant:
Legal Desc: Part of Lot A, Credit Indian Reserve, City of Mississauga, Regional Municipality of Peel, designated as Parts 2 and 3 on Plan 43R-23793, being the whole of PIN 13464-0302
Measurement Method: Interpolation from a map
Applicable Standards: Full Depth Site Conditions Standard, with Nonpotable Ground Water, Coarse Textured Soil, for Residential/Parkland/Institutional property use
RSC PDF:

Cert Date: 28-Sep-07
Cert Prop Use No: No CPU
Intended Prop Use: Residential
Qual Person Name: Fred Serrafero
Stratified (Y/N):
Audit (Y/N):
Entire Leg Prop. (Y/N): Yes
Accuracy Estimate: 2 to 5 meters
Telephone: 416-7479661x227
Fax: 416-7479899
Email: fserrafero@framgroup.com

---

153 **1 of 1** **SE/57.5** **77.7 / -2.16** **AST**
ON

OGF ID: 1200714525
Sub Type: Petroleum Tank
Sub Type No: 1332
Location Accuracy: Within 10 metres
Sensitivity Class: Non-Sensitive
Sensitivity Date: 20070106
Sensitivity Rationale: No Restriction Needed
Verification Flag: Verified
Verification Date: 19980522
Business Effective Dt Flag: Estimated
Business Effective Dt: 19980522
Sys Calcu Area: 19.5
Sys Calcu Length: 0.0
User Calc Metric: 0.0
Effective Date/Time: 19980522

---

154 **1 of 1** **NE/58.5** **80.8 / 1.00** **5 Woodlawn Avenue Mississauga ON** **EHS**
Mississauga ON L5G 3K4

Order No: 22012500154
Status: C
Nearest Intersection:
Municipality:

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	28-JAN-22	**Search Radius (km):**	.25
Date Received:	25-JAN-22	**X:**	-79.5794174
Previous Site Name:		**Y:**	43.5583471
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

155 **1 of 1** **WNW/58.5** **79.8 / 0.00** **ON** **BORE**

Borehole ID:	640888	**Inclin FLG:**	No
OGF ID:	215541283	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.557324
Total Depth m:	2.3	**Longitude DD:**	-79.583173
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614435
Drill Method:		**Northing:**	4823683
Orig Ground Elev m:	80.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	81.7		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218493928	**Mat Consistency:**	
Top Depth:	.8	**Material Moisture:**	Dry
Bottom Depth:	2.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Till	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND,TILL.GLACIAL,DRY,AGE GLACIAL. AGE GLACIAL **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218493926	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.5	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Gravel	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Clay	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	GRAVEL,SILT,SAND, CLAY. FLUVIO-GLACIAL,AGE GLACIAL.		

Geology Stratum ID:	218493925	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	

DRAFT

Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: ASPHALT.

Geology Stratum ID: 218493927
Top Depth: .5
Bottom Depth: .8
Material Color: Grey
Material 1: Clay
Material 2: Silt
Material 3: Sand
Material 4:
Gsc Material Description:
Stratum Description: CLAY,SILT,SAND. GREY,FLUVIO-GLACIAL, AGE GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: glacial

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence:
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 088540 NTS_Sheet: 30M12A
Confiden 1:

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

156 | **1 of 1** | **ENE/59.0** | **80.7 / 0.88** | **187 A Lakeshore Rd E Mississauga ON L5G1G2** | **EHS**

Order No: 20170809131
Status: C
Report Type: Standard Report
Report Date: 15-AUG-17
Date Received: 09-AUG-17
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.57866
Y: 43.557411

---

157 | **1 of 1** | **WNW/59.3** | **79.8 / 0.00** | **1175 Hurontario St ON** | **WWIS**

Well ID: 7371903
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 99H24M77
Tag: A295536
Constructn Method:
Elevation (m):
Elevatn Reliabilty:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03-Nov-2020 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7360
Form Version: 9
Owner:
County: PEEL
Lot:

DRAFT

Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

Bore Hole Information

Bore Hole ID:	1008490876	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614304.00
Code OB Desc:		***North83:***	4823663.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	28-Apr-2020 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008491006
Layer:	2
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	
Mat2 Desc:	
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	10.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008491005
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	
Mat2 Desc:	
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	0.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Annular Space/Abandonment

DRAFT

Sealing Record

Plug ID:	1008491120
Layer:	1
Plug From:	0.0
Plug To:	18.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008491091
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1008490949
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

Pipe Information

Pipe ID:	1008490924
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008491042
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	20.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008491057
Layer:	1
Slot:	0.1
Screen Top Depth:	20.0
Screen End Depth:	30.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Results of Well Yield Testing

Pump Test ID:	1008490925
Pump Set At:	
Static Level:	

DRAFT

Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1008491072
Diameter: 6.0
Depth From: 0.0
Depth To: 30.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1008490876
Depth M: 9.144
Year Completed: 2020
Well Completed Dt: 2020/04/28
Audit No: 99H24M77
Tag No: A295536
Contractor: 7360
Path: 737\7371903.pdf
Latitude: 43.5571660057986
Longitude: -79.5847937820893

---

158 ***1 of 1*** ***NE/59.6*** ***80.8 / 1.00*** ***Starlight Apartments Ltd.***
212 Lakeshore Rd E
Mississauga ON
GEN

Generator No: ON8356209
SIC Code: 562210
SIC Description: Waste Treatment and Disposal
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

---

159 ***1 of 1*** ***SE/59.9*** ***76.0 / -3.84*** ***ON***
AST

OGF ID: 1200714530
Sub Type: Petroleum Tank
Sub Type No: 1332
Location Accuracy: Within 10 metres
Sensitivity Class: Non-Sensitive
Sensitivity Date: 20070106
Sensitivity Rationale: No Restriction Needed
Verification Flag: Verified
Verification Date: 19980522
Business Effective Dt Flag: Estimated
Business Effective Dt: 19980522
Sys Calcu Area: 157.5
Sys Calcu Length: 0.0
User Calc Metric: 0.0
Effective Date/Time: 19980522

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
160	1 of 1	SSE/61.5	79.8 / 0.00	152 LAKESHORE RD E ON	WWIS

Well ID: 7301773
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z234270
Tag: A227118
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 19-Dec-2017 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7464
Form Version: 7
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2017/10/12
Year Completed: 2017
Depth (m): 4.8768
Latitude: 43.5562094453392
Longitude: -79.5809905224597
Path:

Bore Hole Information

Bore Hole ID: 1006911304
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12-Oct-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 614613.00
North83: 4823562.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1007087952
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:

DRAFT

Mat2 Desc:
Mat3: 68
Mat3 Desc: DRY
Formation Top Depth: 0.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007087953
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 34
Mat2 Desc: TILL
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007087954
Layer: 3
Color: 6
General Color: BROWN
Mat1: 17
Most Common Material: SHALE
Mat2: 34
Mat2 Desc: TILL
Mat3: 68
Mat3 Desc: DRY
Formation Top Depth: 12.0
Formation End Depth: 16.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007087961
Layer: 1
Plug From: 0.0
Plug To: 12.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007087960
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1007087951
Casing No: 0

DRAFT

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	1007087957
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	10.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1007087958
Layer:	1
Slot:	10
Screen Top Depth:	10.0
Screen End Depth:	18.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Water Details

Water ID:	1007087956
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1007087955
Diameter:	8.0
Depth From:	0.0
Depth To:	12.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Links

Bore Hole ID:	1006911304	***Tag No:***	A227118
Depth M:	4.8768	***Contractor:***	7464
Year Completed:	2017	***Path:***	730\7301773.pdf
Well Completed Dt:	2017/10/12	***Latitude:***	43.5562094453392
Audit No:	Z234270	***Longitude:***	-79.5809905224597

---

161 ***1 of 8*** ***WSW/62.1*** ***79.8 / 0.00*** ***F.S. Port Credit Development Limited***
1 Hurontario St
Mississauga ON L5G 0A3 ***CA***

Certificate #:	2655-795KGE
Application Year:	2007
Issue Date:	11/20/2007
Approval Type:	Municipal and Private Sewage Works

DRAFT

Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

161 | **2 of 8** | **WSW/62.1** | **79.8 / 0.00** | **1 Hurontario Street, Mississauga ON** | **PINC**

Incident Id: 2795608
Incident No: 638900
Incident Reported Dt:
Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est
Tank Status: RC Established
Task No: 3433870
Spills Action Centre: 5245-8KDL95
Fuel Type: Natural Gas
Fuel Occurrence Tp: Vapour Release
Date of Occurrence: 8/3/2011 0:00
Occurrence Start Dt: 2011/08/03
Depth:
Customer Acct Name:
Incident Address:
Pipe Material: Steel
Fuel Category: Natural Gas
Health Impact: No
Environment Impact: No
Property Damage: No
Service Interrupt: No
Enforce Policy: Yes
Public Relation: No
Pipeline System:
PSIG: 2
Attribute Category: FS-Perform P-line Inc Invest
Regulator Location: Outside
Method Details: E-mail
Operation Type: Commercial (e.g. restaurant, business unit, etc)
Pipeline Type: Service / Riser Distribution Pipeline
Regulator Type: Service Regulator (up to 60 psi intake)
Summary: 1 Hurontario Street, Mississauga - Vapour Release
Reported By: Dave Dunstan - Enbridge
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
Occurrence Desc: gas leak on 2" pipe
Damage Reason: Excavation practices not sufficient
Notes: this is a release from service line

---

161 | **3 of 8** | **WSW/62.1** | **79.8 / 0.00** | **F.S. Port Credit Development Limited 1 Hurontario St Mississauga ON L5G 1E8** | **ECA**

Approval No: 2655-795KGE
Approval Date: 2007-11-20
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: F.S. Port Credit Development Limited
Address: 1 Hurontario St
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7990-78ZMY5-14.pdf
PDF Site Location:

---

161 | **4 of 8** | **WSW/62.1** | **79.8 / 0.00** | **Dolce Vita Medical Spa & Salon 1 Hurontario Street Unit 1 Mississauga ON L5G0A3** | **GEN**

DRAFT

Generator No: ON6629503
SIC Code: 446199
SIC Description: ALL OTHER HEALTH AND PERSONAL CARE STORES
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Alaa Shamas
Choice of Contact: CO_OFFICIAL
Phone No Admin: 9052785550 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

161 **5 of 8** **WSW/62.1** **79.8 / 0.00** **GEN**

Dolce Vita Medical Spa & Salon
1 Hurontario Street Unit 1
Mississauga ON L5G0A3

Generator No: ON6629503
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

161 **6 of 8** **WSW/62.1** **79.8 / 0.00** **GEN**

Thermo Cool Mechanical
1 Hurontario Street
Mississauga ON L5G 0A3

Generator No: ON8515736
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

---

161 **7 of 8** **WSW/62.1** **79.8 / 0.00** **GEN**

Thermo Cool Mechanical
1 Hurontario Street
Mississauga ON L5G 0A3

Generator No: ON8515736
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
161	8 of 8	WSW/62.1	79.8 / 0.00	Dolce Vita Medical Spa & Salon 1 Hurontario Street Unit 1 Mississauga ON L5G0A3	GEN

Generator No: ON6629503
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
162	1 of 1	NNW/62.5	80.6 / 0.75	24 & 28 Elmwood Avenue North And 27 Rosewood Avenue Mississauga ON	EHS

Order No: 20170627175
Status: C
Report Type: Custom Report
Report Date: 05-JUL-17
Date Received: 27-JUN-17
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .2
X: -79.581729
Y: 43.55773

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
163	1 of 1	WNW/62.9	79.8 / 0.00	1175 Hurontario St ON	WWIS

Well ID: 7371901
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: S8J2AU54
Tag: A295534
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03-Nov-2020 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7360
Form Version: 9
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1008490870
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Elevation:
Elevrc:
Zone: 17
East83: 614300.00
North83: 4823666.00

DRAFT

Open Hole:
Cluster Kind:
Date Completed: 28-Apr-2020 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1008491000
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2:
Mat2 Desc:
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 0.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008491002
Layer: 3
Color: 2
General Color: GREY
Mat1: 26
Most Common Material: ROCK
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 30.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008491001
Layer: 2
Color: 2
General Color: GREY
Mat1: 34
Most Common Material: TILL
Mat2:
Mat2 Desc:
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 10.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

DRAFT

Annular Space/Abandonment Sealing Record

Plug ID:	1008491089
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008491118
Layer:	1
Plug From:	0.0
Plug To:	38.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1008490947
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

Pipe Information

Pipe ID:	1008490920
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008491040
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	40.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008491055
Layer:	1
Slot:	0.1
Screen Top Depth:	40.0
Screen End Depth:	50.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Results of Well Yield Testing

Pump Test ID:	1008490921
Pump Set At:	

DRAFT

Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1008491070
Diameter: 6.0
Depth From: 0.0
Depth To: 50.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1008490870
Depth M: 15.24
Year Completed: 2020
Well Completed Dt: 2020/04/28
Audit No: S8J2AU54
Tag No: A295534
Contractor: 7360
Path: 737\7371901.pdf
Latitude: 43.5571936231171
Longitude: -79.5848426594078

---

164 ***1 of 1*** ***WNW/63.5*** ***79.8 / 0.00*** ***ON*** ***BORE***

Borehole ID: 649452
OGF ID: 215549827
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JUN-1959
Static Water Level: 0.4
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 7.6
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Diamond Drill
Orig Ground Elev m: 83.3
Elev Reliabil Note:
DEM Ground Elev m: 81.8
Concession:
Location D:
Survey D:
Comments:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.557249
Longitude DD: -79.584351
UTM Zone: 17
Easting: 614340
Northing: 4823673
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218527019
Top Depth: 0
Bottom Depth: 1.1
Material Color:
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:

DRAFT

Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND.		

Geology Stratum ID:	218527020	**Mat Consistency:**	Dense
Top Depth:	1.1	**Material Moisture:**	
Bottom Depth:	2.4	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY,SILT. GREY,DENSE, WATER STABLE AT 272.1 FEET.		

Geology Stratum ID:	218527021	**Mat Consistency:**	Dense
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:	7.6	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Stones	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT, STONES. GREY,VERY DENSE. 022 010 0003504000080085 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 201110 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

165 | ***1 of 1*** | ***WNW/66.4*** | ***79.8 / 0.00*** | ***30 QUEEN ST E Mississauga ON*** | ***WWIS***

Well ID:	7290487	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	18-Jul-2017 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z248283	**Contractor:**	6607
Tag:	A224322	**Form Version:**	7
Constructn Method:		**Owner:**	

DRAFT

Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2017/05/24
Year Completed:	2017
Depth (m):	13.2
Latitude:	43.557229169246
Longitude:	-79.5848046844955
Path:	

Bore Hole Information

Bore Hole ID:	1006630824	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614303.00
Code OB Desc:		**North83:**	4823670.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	24-May-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006696661
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	2.299999952316284
Formation End Depth:	8.800000190734863
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006696660
Layer:	2

DRAFT

Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Mat2 Desc:	SAND
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	0.699999988079071
Formation End Depth:	2.299999952316284
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006696659
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	01
Mat3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	0.699999988079071
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006696662
Layer:	4
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	8.800000190734863
Formation End Depth:	13.199999809265137
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006696671
Layer:	2
Plug From:	0.30000001192092896
Plug To:	9.600000381469727
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006696670
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896

DRAFT

Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006696669
Method Construction Code: 6
Method Construction: Boring
Other Method Construction: DIAMOND

Pipe Information

Pipe ID: 1006696658
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006696666
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.10000000149011612
Depth To: 10.300000190734863
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006696667
Layer: 1
Slot: 10
Screen Top Depth: 10.300000190734863
Screen End Depth: 13.199999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1006696665
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006696663
Diameter: 21.0
Depth From: 0.0
Depth To: 8.800000190734863
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

DRAFT

Hole ID: 1006696664
Diameter: 9.600000381469727
Depth From: 8.800000190734863
Depth To: 13.199999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID:	1006630824	**Tag No:**	A224322
Depth M:	13.2	**Contractor:**	6607
Year Completed:	2017	**Path:**	
Well Completed Dt:	2017/05/24	**Latitude:**	43.557229169246
Audit No:	Z248283	**Longitude:**	-79.5848046844955

---

166 ***1 of 1*** ***WNW/68.4*** ***79.8 / 0.00*** ***ON*** ***BORE***

Borehole ID:	833855	**Inclin FLG:**	No
OGF ID:	215585986	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	02-JUN-1959	**Municipality:**	
Static Water Level:	3.7	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.557287
Total Depth m:	7.6	**Longitude DD:**	-79.58442
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614334
Drill Method:	Hollow stem auger	**Northing:**	4823677
Orig Ground Elev m:	83.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 20 metres
DEM Ground Elev m:	81.6		
Concession:			
Location D:	PORT CREDIT CREEK TO LAKE ONTARIO * STORM SEWER		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	6014650	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.1	**Material Texture:**	Fine
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Fine sand **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014652	**Mat Consistency:**	
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:	7.6	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Grey, silty clay or clayey silt with sand and small stones, (glacial till) **Note: Many records provided by the		

DRAFT

department have a truncated [Stratum Description] field.

Geology Stratum ID:	6014651	**Mat Consistency:**	
Top Depth:	1.1	**Material Moisture:**	
Bottom Depth:	2.4	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Grey, silty clay **Note: Many records provided by the department have a truncated [Stratum Description] field.		

---

167 **1 of 1** **ENE/68.5** **79.8 / 0.00** **ON** **BORE**

Borehole ID:	641267	**Inclin FLG:**	No
OGF ID:	215541662	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1967	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.560081
Total Depth m:	610	**Longitude DD:**	-79.573142
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615240
Drill Method:	Power auger	**Northing:**	4824003
Orig Ground Elev m:	690	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.7		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218495466	**Mat Consistency:**	Stiff
Top Depth:	610	**Material Moisture:**	
Bottom Depth:	610	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT,SAND.BROWN,GLACIAL,STIFF, AGE GLACIAL.		

Geology Stratum ID:	218495465	**Mat Consistency:**	
Top Depth:	610	**Material Moisture:**	Moist
Bottom Depth:	610	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SAND,CLAY,SILT. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.		

Geology Stratum ID:	218495463	**Mat Consistency:**	
Top Depth:	609	**Material Moisture:**	
Bottom Depth:	609	**Material Texture:**	

DRAFT

Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,SILT, GRAVEL. BROWN.		

Geology Stratum ID:	218495464	**Mat Consistency:**	
Top Depth:	609	**Material Moisture:**	
Bottom Depth:	610	**Material Texture:**	Coarse
Material Color:	Blue	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE,SILT,CLAY. BLUE,LACUSTRINE,AGE GLACIAL.		

Geology Stratum ID:	218495462	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	609	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 092330 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

168 | ***1 of 1*** | ***W/69.0*** | ***79.8 / 0.00*** | ***GO STATION PARKING LOT PORT CREDIT ON*** | ***WWIS***

Well ID:	7307874	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	15-Mar-2018 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z255690	**Contractor:**	6607
Tag:	A241358	**Form Version:**	7
Constructn Method:		**Owner:**	

DRAFT

Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2018/01/12
Year Completed:	2018
Depth (m):	5.3
Latitude:	43.557167574587
Longitude:	-79.5856480304261
Path:	

Bore Hole Information

Bore Hole ID:	1007003612	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614235.00
Code OB Desc:		**North83:**	4823662.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	12-Jan-2018 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007230205
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	4.5
Formation End Depth:	5.300000190734863
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007230203
Layer:	1

DRAFT

Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007230204
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 1.5
Formation End Depth: 4.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007230213
Layer: 2
Plug From: 0.30000001192092896
Plug To: 1.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007230212
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1007230211
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1007230202
Casing No: 0
Comment:
Alt Name:

DRAFT

Construction Record - Casing

Casing ID:	1007230208
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	1.5
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1007230209
Layer:	1
Slot:	10
Screen Top Depth:	1.5
Screen End Depth:	5.300000190734863
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.400000095367432

Water Details

Water ID:	1007230207
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1007230206
Diameter:	21.0
Depth From:	0.0
Depth To:	5.300000190734863
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1007003612	***Tag No:***	A241358
Depth M:	5.3	***Contractor:***	6607
Year Completed:	2018	***Path:***	730\7307874.pdf
Well Completed Dt:	2018/01/12	***Latitude:***	43.557167574587
Audit No:	Z255690	***Longitude:***	-79.5856480304261

169 ***1 of 1*** ***E/69.1*** ***78.7 / -1.12*** ***ON*** ***BORE***

Borehole ID:	641027	***Inclin FLG:***	No
OGF ID:	215541422	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	FEB-1970	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:	Not Used	***Township:***	

DRAFT

Sec. Water Use:		**Latitude DD:**	43.557465
Total Depth m:	3	**Longitude DD:**	-79.57277
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615275
Drill Method:	Power auger	**Northing:**	4823713
Orig Ground Elev m:	80.2	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.8		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494486	**Mat Consistency:**	
Top Depth:	.5	**Material Moisture:**	
Bottom Depth:	1.1	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. GREY,BROWN,FLUVIO-GLACIAL, AGE GLACIAL.		

Geology Stratum ID:	218494485	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.5	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SILT,SAND,CLAY. LACUSTRINE,AGE GLACIAL.		

Geology Stratum ID:	218494484	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,GRAVEL. CRUSHED.		

Geology Stratum ID:	218494483	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	0	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218494487	**Mat Consistency:**	Dense
Top Depth:	1.1	**Material Moisture:**	
Bottom Depth:	3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	

DRAFT

Material 3:	Silt	**Geologic Period:**	
Material 4:	Clay	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,SAND,SILT,CLAY.GLACIAL,DENSE,AGE GLACIAL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 089930 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

170 ***1 of 1*** ***ENE/69.8*** ***79.8 / 0.00*** ***ON*** ***BORE***

Borehole ID:	641050	**Inclin FLG:**	No
OGF ID:	215541445	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1969	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.560127
Total Depth m:	1.2	**Longitude DD:**	-79.573203
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615235
Drill Method:	Power auger	**Northing:**	4824008
Orig Ground Elev m:	80.4	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494587	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	.4	**Material Texture:**	Coarse
Material Color:	Black	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE,SILT,CLAY. BLACK,ALLUVIAL, AGE POST-GLACIAL.		

DRAFT

Geology Stratum ID:	218494588	**Mat Consistency:**	
Top Depth:	.4	**Material Moisture:**	Moist
Bottom Depth:	.8	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.		

Geology Stratum ID:	218494589	**Mat Consistency:**	Stiff
Top Depth:	.8	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Silt	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SAND,SILT.BROWN,GLACIAL,STIFF, AGE GLACIAL.		

Geology Stratum ID:	218494585	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218494586	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,GRAVEL,SAND. BROWN.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 090160 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
171	1 of 1	WNW/69.9	79.8 / 0.00	ON	BORE

Borehole ID:	649453	**Inclin FLG:**	No
OGF ID:	215549828	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	DEC-1959	**Municipality:**	
Static Water Level:	0.2	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.557295
Total Depth m:	5	**Longitude DD:**	-79.584474
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614330
Drill Method:	Power auger	**Northing:**	4823678
Orig Ground Elev m:	83.5	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	81.5		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218527024	**Mat Consistency:**	Dense
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:	5	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SAND, GRAVEL. GREY,VERY DENSE. 020 011 0001005000080065 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218527023	**Mat Consistency:**	Dense
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	2.4	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND. GREY,VERY DENSE, WATER STABLE AT 273.5 FEET.		

Geology Stratum ID:	218527022	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular

DRAFT

Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 201120 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

172 | ***1 of 1*** | ***W/70.1*** | ***79.8 / 0.00*** | ***30 queen st e. Mississauga ON*** | ***WWIS***

Well ID:	7355170	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Test Hole	**Data Entry Status:**	
Use 2nd:	Monitoring	**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	28-Nov-2018 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z275303	**Contractor:**	7383
Tag:	A235313	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2018/10/20
Year Completed:	2018
Depth (m):	
Latitude:	43.5571927411251
Longitude:	-79.5854988702987
Path:	

Bore Hole Information

Bore Hole ID:	1008221292	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614247.00
Code OB Desc:		**North83:**	4823665.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	20-Oct-2018 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m

DRAFT

Remarks: ***Location Method:*** wwr
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1008268355
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 06
Mat2 Desc: SILT
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM:

Overburden and Bedrock Materials Interval

Formation ID: 1008268356
Layer: 3
Color: 2
General Color: GREY
Mat1: 34
Most Common Material: TILL
Mat2: 17
Mat2 Desc: SHALE
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM:

Overburden and Bedrock Materials Interval

Formation ID: 1008268354
Layer: 1
Color: 8
General Color: BLACK
Mat1: 27
Most Common Material: OTHER
Mat2:
Mat2 Desc:
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 0.0
Formation End Depth:
Formation End Depth UOM:

Annular Space/Abandonment Sealing Record

DRAFT

Plug ID: 1008268748
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008268750
Layer: 3
Plug From: 24.0
Plug To: 35.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008268749
Layer: 2
Plug From: 1.0
Plug To: 24.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008269239
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1008267825
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008269428
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 25.0
Casing Diameter: 2.0
Casing Diameter UOM: Inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008269598
Layer: 1
Slot: 10
Screen Top Depth: 25.0
Screen End Depth: 35.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch

DRAFT

Screen Diameter: 2.375

Results of Well Yield Testing

Pump Test ID: 1008269864
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1008269726
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 33.5
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1008269044
Diameter: 6.0
Depth From: 0.0
Depth To: 35.0
Hole Depth UOM: ft
Hole Diameter UOM: Inch

Links

Bore Hole ID: 1008221292
Depth M:
Year Completed: 2018
Well Completed Dt: 2018/10/20
Audit No: Z275303
Tag No: A235313
Contractor: 7383
Path:
Latitude: 43.5571927411251
Longitude: -79.5854988702987

---

173 ***1 of 1*** ***SSW/70.4*** ***79.8 / 0.00*** ***ON*** ***WWIS***

Well ID: 7162774
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: M08457
Tag: A110337
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 05-May-2011 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 5
Owner:
County: PEEL
Lot:

DRAFT

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/716\7162774.pdf

Additional Detail(s) (Map)

Well Completed Date: 2011/03/15
Year Completed: 2011
Depth (m):
Latitude: 43.5560327963268
Longitude: -79.5812670440701
Path: 716\7162774.pdf

Bore Hole Information

Bore Hole ID: 1003505993
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 15-Mar-2011 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 614591.00
North83: 4823542.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Links

Bore Hole ID: 1003505993
Depth M:
Year Completed: 2011
Well Completed Dt: 2011/03/15
Audit No: M08457

Tag No: A110337
Contractor: 6607
Path: 716\7162774.pdf
Latitude: 43.5560327963268
Longitude: -79.5812670440701

174	1 of 8	ENE/70.5	80.8 / 1.00	HARBINDER MANN VETERINARY CORPORATION 205 LAKESHORE.RD. E. MISSISSAUGA ON	GEN

Generator No: ON7519092
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2012
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

174	2 of 8	ENE/70.5	80.8 / 1.00	HARBINDER MANN VETERINARY CORPORATION 205 LAKESHORE.RD. E. MISSISSAUGA ON	GEN

DRAFT

Generator No: ON7519092
SIC Code: 541940
SIC Description: VETERINARY SERVICES
Approval Years: 2013
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

174 ***3 of 8*** ***ENE/70.5*** ***80.8 / 1.00*** ***HARBINDER MANN VETERINARY CORPORATION 205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2*** ***GEN***

Generator No: ON7519092
SIC Code: 541940
SIC Description: VETERINARY SERVICES
Approval Years: 2016
PO Box No:
Country: Canada

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

174 ***4 of 8*** ***ENE/70.5*** ***80.8 / 1.00*** ***HARBINDER MANN VETERINARY CORPORATION 205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2*** ***GEN***

Generator No: ON7519092
SIC Code: 541940
SIC Description: VETERINARY SERVICES
Approval Years: 2015
PO Box No:
Country: Canada

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

174 ***5 of 8*** ***ENE/70.5*** ***80.8 / 1.00*** ***HARBINDER MANN VETERINARY CORPORATION 205 LAKESHORE.RD. E. MISSISSAUGA ON L5G1G2*** ***GEN***

Generator No: ON7519092
SIC Code: 541940
SIC Description: VETERINARY SERVICES
Approval Years: 2014
PO Box No:
Country: Canada

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contam. Facility: No
MHSW Facility: No

Detail(s)

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

174 **6 of 8** **ENE/70.5** **80.8 / 1.00** **HARBINDER MANN VETERINARY CORPORATION**
205 LAKESHORE.RD. E.
MISSISSAUGA ON L5G1G2 **GEN**

Generator No: ON7519092
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

174 **7 of 8** **ENE/70.5** **80.8 / 1.00** **HARBINDER MANN VETERINARY CORPORATION**
205 LAKESHORE.RD. E.
MISSISSAUGA ON L5G1G2 **GEN**

Generator No: ON7519092
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

174 **8 of 8** **ENE/70.5** **80.8 / 1.00** **HARBINDER MANN VETERINARY CORPORATION**
205 LAKESHORE.RD. E.
MISSISSAUGA ON L5G1G2 **GEN**

Generator No: ON7519092
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

175 **1 of 1** **W/71.1** **78.8 / -1.00** **ON** **BORE**

Borehole ID: 640918
OGF ID: 215541313

Inclin FLG: No
SP Status: Initial Entry

DRAFT

Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1965	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.555437
Total Depth m:	2.1	**Longitude DD:**	-79.587055
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614125
Drill Method:	Power auger	**Northing:**	4823468
Orig Ground Elev m:	86.9	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	83.3		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494069	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,GRAVEL. BROWN.		

Geology Stratum ID:	218494070	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	2.1	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. SAND **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218494068	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 088840 NTS_Sheet: 30M12A		

DRAFT

Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada
Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

176 ***1 of 1*** ***SW/71.1*** ***79.1 / -0.78*** ***1 HURONTARIO STREET Mississauga ON*** ***WWIS***

Well ID: 7298078
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z255419
Tag: A232874
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

PDF URL (Map):

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 31-Oct-2017 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 7
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Well Completed Date: 2017/08/11
Year Completed: 2017
Depth (m): 5.2
Latitude: 43.5559301547166
Longitude: -79.5817027767121
Path:

Bore Hole Information

Bore Hole ID: 1006784926
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11-Aug-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Elevation:
Elevrc:
Zone: 17
East83: 614556.00
North83: 4823530.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

DRAFT

Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1006955354
Layer:	2
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	26
Mat2 Desc:	ROCK
Mat3:	92
Mat3 Desc:	WEATHERED
Formation Top Depth:	4.5
Formation End Depth:	5.199999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006955353
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	28
Mat3 Desc:	SAND
Formation Top Depth:	0.0
Formation End Depth:	4.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006955362
Layer:	2
Plug From:	0.30000001192092896
Plug To:	1.899999976158142
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006955361
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1006955360
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

DRAFT

Pipe Information

Pipe ID:	1006955352
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006955357
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	2.200000047683716
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006955358
Layer:	1
Slot:	10
Screen Top Depth:	2.200000047683716
Screen End Depth:	5.199999809265137
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.400000095367432

Water Details

Water ID:	1006955356
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	2.4000000953674316
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1006955355
Diameter:	21.0
Depth From:	0.0
Depth To:	5.199999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1006784926	***Tag No:***	A232874
Depth M:	5.2	***Contractor:***	6607
Year Completed:	2017	***Path:***	
Well Completed Dt:	2017/08/11	***Latitude:***	43.5559301547166
Audit No:	Z255419	***Longitude:***	-79.5817027767121

177	***1 of 1***	***W/71.7***	***78.8 / -1.00***	***28 Helene St N Mississauga ON L5G 3B7***	***EHS***

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Order No:	20080326002	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	4/3/2008	**Search Radius (km):**	0.25
Date Received:	3/26/2008	**X:**	-79.586315
Previous Site Name:		**Y:**	43.555375
Lot/Building Size:			
Additional Info Ordered:			

178 | **1 of 1** | **ESE/72.3** | **79.8 / 0.00** | **ON** | **AST**

OGF ID:	1200714514
Sub Type:	Petroleum Tank
Sub Type No:	1332
Location Accuracy:	Within 10 metres
Sensitivity Class:	Non-Sensitive
Sensitivity Date:	20070106
Sensitivity Rationale:	No Restriction Needed
Verification Flag:	Verified
Verification Date:	19980522
Business Effective Dt Flag:	Estimated
Business Effective Dt:	19980522
Sys Calcu Area:	57.5
Sys Calcu Length:	0.0
User Calc Metric:	0.0
Effective Date/Time:	19980522

179 | **1 of 1** | **E/74.0** | **79.8 / 0.00** | **136 Waterside, Peel ON** | **PINC**

Incident Id:	2752210	**Pipe Material:**	Plastic
Incident No:	595628	**Fuel Category:**	Natural Gas
Incident Reported Dt:		**Health Impact:**	No
Type:	FS-Pipeline Incident	**Environment Impact:**	No
Status Code:	Pipeline Damage Reason Est	**Property Damage:**	Yes
Tank Status:	RC Established	**Service Interrupt:**	Yes
Task No:	3353445	**Enforce Policy:**	Yes
Spills Action Centre:		**Public Relation:**	No
Fuel Type:	Natural Gas	**Pipeline System:**	
Fuel Occurrence Tp:	Pipeline Strike	**PSIG:**	45
Date of Occurrence:	5/14/2011 0:00	**Attribute Category:**	FS-Perform P-line Inc Invest
Occurrence Start Dt:	2011/05/25	**Regulator Location:**	Outside
Depth:		**Method Details:**	E-mail
Customer Acct Name:			
Incident Address:			
Operation Type:	Construction Site (including excavation)		
Pipeline Type:	Service / Riser Distribution Pipeline		
Regulator Type:	Service Regulator (up to 60 psi intake)		
Summary:	136 Waterside, Peel - 1/2" Pipeline Hit		
Reported By:	Imineo, Vito - Enbridge		
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)		
Occurrence Desc:			
Damage Reason:	Excavation practices not sufficient		
Notes:			

180 | **1 of 1** | **SW/74.2** | **79.1 / -0.79** | **125/129/139 Lakeshore Road East & 65/80 Port Street Mississauga ON** | **EHS**

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Order No:	20070914020	**Nearest Intersection:**	Between Helene St S & St. Lawrence Dr (Hurontario)
Status:	C	**Municipality:**	
Report Type:	CAN - Custom Report	**Client Prov/State:**	
Report Date:	9/20/2007	**Search Radius (km):**	0.25
Date Received:	9/14/2007	**X:**	-79.58175
Previous Site Name:		**Y:**	43.555898
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps And /or Site Plans		

181 **1 of 1** **WSW/75.0** **81.5 / 1.61** **SPL**

PRIVATE RESIDENCE
1171 STAVE BANK RD. FURNACE OIL TANK
MISSISSAUGA CITY ON

Ref No:	110425	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	//	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	PIPE/HOSE LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	21102
Nature of Impact:	Water course or lake	**Site Lot:**	
Receiving Medium:	LAND	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	PEEL REG.
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2/28/1995	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	UNKNOWN	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PRIVATE RESIDENCE- UNDER-GROUND FUEL OIL LINE LEAKIN BASEMENT, PEEL REG.		
Contaminant Qty:			

182 **1 of 1** **W/76.2** **78.8 / -1.00** **BORE**

ON

Borehole ID:	646201	**Inclin FLG:**	No
OGF ID:	215546584	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JUN-1968	**Municipality:**	
Static Water Level:	0.5	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.555431
Total Depth m:	6.1	**Longitude DD:**	-79.586622
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614160
Drill Method:	Power auger	**Northing:**	4823468
Orig Ground Elev m:	81.9	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	82.2		
Concession:			
Location D:			
Survey D:			

DRAFT

Comments:

Borehole Geology Stratum

Geology Stratum ID:	218514005	***Mat Consistency:***	Dense
Top Depth:	.2	***Material Moisture:***	
Bottom Depth:	4.4	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Silt	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:		***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	SILT,SAND,CLAY. BROWN,GREY,GLACIAL,DENSE, LAYERED,AGE GLACIAL.		

Geology Stratum ID:	218514006	***Mat Consistency:***	Hard
Top Depth:	4.4	***Material Moisture:***	
Bottom Depth:	6.1	***Material Texture:***	
Material Color:	Grey	***Non Geo Mat Type:***	
Material 1:	Till	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:	Silt	***Geologic Period:***	
Material 4:		***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	TILL,CLAY,SILT. GREY,GLACIAL,HARD,AGE GLACIAL,WATER STABLE AT 267.3 FEET. 018 012 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218514004	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.2	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Soil	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SOIL.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	M	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR2.txt RecordID: 142230 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

183	***1 of 1***	***NE/78.2***	***80.8 / 1.00***	***206-212 Lakeshore Road East Mississauga ON L5G 1G4***	***EHS***

Order No:	20060222018	***Nearest Intersection:***	33103

DRAFT

Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	2/24/2006	**Search Radius (km):**	0.25
Date Received:	2/22/2006	**X:**	-79.578756
Previous Site Name:		**Y:**	43.558199
Lot/Building Size:			
Additional Info Ordered:			

184 **1 of 1** **E/78.4** **80.2 / 0.31** **ENBRIDGE GAS INC**
59 CUMBERLAND DR,,MISSISSAUGA,ON,L5G 3N1,CA
ON **PINC**

Incident Id:		**Pipe Material:**	
Incident No:	3141748	**Fuel Category:**	
Incident Reported Dt:	11/30/2021	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	
Tank Status:	Report Received	**Service Interrupt:**	
Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	

Customer Acct Name: ENBRIDGE GAS INC
Incident Address: 59 CUMBERLAND DR,,MISSISSAUGA,ON,L5G 3N1,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary:
Reported By:
Affiliation:
Occurrence Desc:
Damage Reason:
Notes:

185 **1 of 1** **SE/79.9** **79.8 / 0.00** **Access Control Sales Ltd.**
161 Lakeshore Rd E
Mississauga ON L5G 4T9 **SCT**

Established: 01-AUG-86
Plant Size (ft²):
Employment:

--Details--
Description: Electrical Wiring and Construction Supplies Wholesaler-Distributors
SIC/NAICS Code: 416110

Description: Wholesale Trade Agents and Brokers
SIC/NAICS Code: 419120

Description: Electronic and Precision Equipment Repair and Maintenance
SIC/NAICS Code: 811210

Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

Description: Electrical Wiring and Construction Supplies Wholesaler-Distributors
SIC/NAICS Code: 416110

DRAFT

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

---

186 **1 of 1** **ENE/80.7** **79.0 / -0.87** **ON** **BORE**

Borehole ID:	641042	**Inclin FLG:**	No
OGF ID:	215541437	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1969	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.559439
Total Depth m:	1.5	**Longitude DD:**	-79.572228
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615315
Drill Method:	Power auger	**Northing:**	4823933
Orig Ground Elev m:	80.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	78.7		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494548	**Mat Consistency:**	
Top Depth:	.6	**Material Moisture:**	Moist
Bottom Depth:	1.1	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SAND,CLAY,SILT. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL.		

Geology Stratum ID:	218494546	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Silt	**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,GRAVEL,SAND, SILT. BROWN.		

Geology Stratum ID:	218494549	**Mat Consistency:**	Dense
Top Depth:	1.1	**Material Moisture:**	
Bottom Depth:	1.5	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial

DRAFT

Gsc Material Description:
Stratum Description: TILL,CLAY,SILT,SAND.GREY,BROWN,GLACIAL,VERY DENSE,AGE GLACIAL.

Geology Stratum ID: 218494547
Top Depth: .2
Bottom Depth: .6
Material Color: Black
Material 1: Sand
Material 2: Clay
Material 3: Silt
Material 4:
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Gsc Material Description:
Stratum Description: SAND,CLAY,SILT. BLACK,ALLUVIAL, AGE POST-GLACIAL.

Geology Stratum ID: 218494545
Top Depth: 0
Bottom Depth: .1
Material Color:
Material 1: Asphalt
Material 2:
Material 3:
Material 4:
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Gsc Material Description:
Stratum Description: ASPHALT.

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 090080 NTS_Sheet: 30M12A
Confiden 1: Reliable information but incomplete.

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada
Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

187 **1 of 1** **WSW/80.7** **79.8 / 0.00** **ON** **BORE**

Borehole ID: 640924
OGF ID: 215541319
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JAN-1965
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 1.2
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 190
Elev Reliabil Note:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.555704
Longitude DD: -79.583211
UTM Zone: 17
Easting: 614435
Northing: 4823503
Location Accuracy:
Accuracy: Not Applicable

DRAFT

DEM Ground Elev m: 80.5
Concession:
Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 218494099
Top Depth: .4
Bottom Depth: .6
Material Color: Brown
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SAND-MEDIUM,SILT, CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture: Medium
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Geology Stratum ID: 218494096
Top Depth: 0
Bottom Depth: .1
Material Color:
Material 1: Asphalt
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: ASPHALT.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218494097
Top Depth: .1
Bottom Depth: .2
Material Color: Brown
Material 1: Fill
Material 2: Gravel
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: FILL,GRAVEL. BROWN.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: fill

Geology Stratum ID: 218494100
Top Depth: .6
Bottom Depth: 1.2
Material Color: Yellow
Material 1: Sand
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND-MEDIUM. YELLOW,ALLUVIAL, AGE POST-GLACIAL. SAND- **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture:
Material Texture: Medium
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Geology Stratum ID: 218494098
Top Depth: .2
Bottom Depth: .4
Material Color: Yellow
Material 1: Sand
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND-MEDIUM. YELLOW,ALLUVIAL, AGE POST-GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture: Medium
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

DRAFT

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	M	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 088900 NTS_Sheet: 30M12A
Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

---

188 ***1 of 1*** ***WNW/80.7*** ***79.8 / 0.00*** ***ON*** ***BORE***

Borehole ID:	833849	***Inclin FLG:***	No
OGF ID:	215585980	***SP Status:***	Initial Entry
Status:	Decommissioned	***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	10-DEC-1959	***Municipality:***	
Static Water Level:	1.5	***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	43.557388
Total Depth m:	5	***Longitude DD:***	-79.584529
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	614325
Drill Method:	Hollow stem auger	***Northing:***	4823688
Orig Ground Elev m:	83.5	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Within 20 metres
DEM Ground Elev m:	81.5		
Concession:			

Location D: HWY 10 & CNR (AT PORT CREDIT) * RETAINING WALLS
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	6014631	***Mat Consistency:***	Dense
Top Depth:	.3	***Material Moisture:***	
Bottom Depth:	2.4	***Material Texture:***	Fine
Material Color:	Grey-Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	

Gsc Material Description:
Stratum Description: Dense, grey - brown, fine sand **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	6014630	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.3	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Topsoil	***Geologic Formation:***	

DRAFT

Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Topsoil **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014632	**Mat Consistency:**	Dense
Top Depth:	2.4	**Material Moisture:**	
Bottom Depth:	5	**Material Texture:**	Fine
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Dense, glacial till of grey, sandy clay with fine gravel layer of fine sand from 4.27m to 4.57m **Note: Many records provided by the department have a truncated [Stratum Description] field.		

---

189 | **1 of 1** | **W/81.9** | **78.8 / -1.00** | **IMH Pool VI-A LP**
28 Helene St North
Port Credit ON L5G 3B7 | **GEN**

Generator No:	ON5013248	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Dec 2018	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	145 T
Waste Class Desc:	Wastes from the use of pigments, coatings and paints

---

190 | **1 of 1** | **ENE/82.5** | **79.1 / -0.79** | **ON** | **BORE**

Borehole ID:	641257	**Inclin FLG:**	No
OGF ID:	215541652	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1967	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.559393
Total Depth m:	1.8	**Longitude DD:**	-79.572105
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615325
Drill Method:	Power auger	**Northing:**	4823928
Orig Ground Elev m:	80.2	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	78.8		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218495413	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	0	**Material Texture:**	

DRAFT

Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218495417	**Mat Consistency:**	Stiff
Top Depth:	1.2	**Material Moisture:**	
Bottom Depth:	1.8	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. GREY,BROWN,LACUSTRINE,STIFF, AGE GLACIAL.		

Geology Stratum ID:	218495414	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,SILT, GRAVEL. BROWN.		

Geology Stratum ID:	218495415	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	.5	**Material Texture:**	
Material Color:	Blue	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:	Organic	**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY, ORGANIC. BLUE,LACUSTRINE,AGE GLACIAL.		

Geology Stratum ID:	218495416	**Mat Consistency:**	
Top Depth:	.5	**Material Moisture:**	Moist
Bottom Depth:	1.2	**Material Texture:**	Coarse
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 092230 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

DRAFT

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada
Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

191 **1 of 1** **WNW/82.6** **79.8 / 0.00** **72 QUEEN STREET PORT CREDIT ON** **WWIS**

Well ID: 7306887
Construction Date:
Use 1st: Test Hole
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z255689
Tag: A241274
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 08-Mar-2018 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 7
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/730\7306887.pdf

Additional Detail(s) (Map)

Well Completed Date: 2017/12/15
Year Completed: 2017
Depth (m): 15.2
Latitude: 43.5573495591138
Longitude: -79.5850742479462
Path: 730\7306887.pdf

Bore Hole Information

Bore Hole ID: 1006995695
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 15-Dec-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 17
East83: 614281.00
North83: 4823683.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock

DRAFT

Materials Interval

Formation ID:	1007194429
Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Mat2 Desc:	SAND
Mat3:	11
Mat3 Desc:	GRAVEL
Formation Top Depth:	3.0
Formation End Depth:	8.800000190734863
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007194430
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	8.800000190734863
Formation End Depth:	15.199999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007194428
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007194439
Layer:	2
Plug From:	0.30000001192092896
Plug To:	8.800000190734863
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

DRAFT

Plug ID: 1007194438
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1007194437
Method Construction Code: 6
Method Construction: Boring
Other Method Construction: TRICONE

Pipe Information

Pipe ID: 1007194427
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007194434
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 9.100000381469727
Casing Diameter: 10.199999809265137
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007194435
Layer: 1
Slot: 10
Screen Top Depth: 9.100000381469727
Screen End Depth: 15.199999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 11.5

Water Details

Water ID: 1007194433
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1007194432
Diameter: 16.0
Depth From: 9.100000381469727
Depth To: 15.199999809265137
Hole Depth UOM: m

DRAFT

Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1007194431
Diameter: 25.0
Depth From: 0.0
Depth To: 9.100000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1006995695
Depth M: 15.2
Year Completed: 2017
Well Completed Dt: 2017/12/15
Audit No: Z255689
Tag No: A241274
Contractor: 6607
Path: 730\7306887.pdf
Latitude: 43.5573495591138
Longitude: -79.5850742479462

---

192 **1 of 1** **ENE/83.0** **80.8 / 1.00** **ON** **BORE**

Borehole ID: 641276
OGF ID: 215541671
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: NOV-1967
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 2.9
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 81.4
Elev Reliabil Note:
DEM Ground Elev m: 81.2
Concession:
Location D:
Survey D:
Comments:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.56019
Longitude DD: -79.574687
UTM Zone: 17
Easting: 615115
Northing: 4824013
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218495510
Top Depth: .5
Bottom Depth: 1
Material Color: Brown
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SAND-MEDIUM TO COARSE,SILT,CLAY. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.
Mat Consistency:
Material Moisture: Moist
Material Texture: Coarse
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: lacustrine

Geology Stratum ID: 218495509
Top Depth: .3
Bottom Depth: .5
Material Color: Blue
Material 1: Sand
Material 2: Silt
Mat Consistency:
Material Moisture:
Material Texture: Coarse
Non Geo Mat Type:
Geologic Formation:
Geologic Group:

DRAFT

Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM TO COARSE,SILT,CLAY. BLUE,LACUSTRINE,AGE GLACIAL.		

Geology Stratum ID:	218495512	**Mat Consistency:**	Dense
Top Depth:	1.5	**Material Moisture:**	
Bottom Depth:	2.9	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. GREY,BROWN,LACUSTRINE,DENSE, AGE GLACIAL.		

Geology Stratum ID:	218495507	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	0	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218495508	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,SILT, GRAVEL. BROWN.		

Geology Stratum ID:	218495511	**Mat Consistency:**	
Top Depth:	1	**Material Moisture:**	Moist
Bottom Depth:	1.5	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. BROWN,LACUSTRINE,MOIST, AGE GLACIAL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 092420 NTS_Sheet: 30M12A		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level

DRAFT

Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

193 **1 of 1** **E/83.0** **76.3 / -3.59** **PRIVATE RESIDENCE 56 OAKWOOD AVENUE,PORT CREDIT,HWY 10 AND LAKESHORE ROAD. FURNACE OIL TANK MISSISSAUGA CITY ON** **SPL**

Ref No:	151979	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	1/29/1998	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	UNDERGROUND TANK LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	21102
Nature of Impact:	Multi Media Pollution	**Site Lot:**	
Receiving Medium:	LAND	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	1/30/1998	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	UNKNOWN	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PRIVATE RESIDENCE-LEAKINGUNDERGROUND TANK,FUEL IN BASEMENT SUMP/DRAIN.		
Contaminant Qty:			

194 **1 of 1** **WSW/84.3** **79.8 / 0.00** **ON** **BORE**

Borehole ID:	833853	**Inclin FLG:**	No
OGF ID:	215585984	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	01-JUN-1959	**Municipality:**	
Static Water Level:	3.0	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.555757
Total Depth m:	6.2	**Longitude DD:**	-79.582289
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614509
Drill Method:	Hollow stem auger	**Northing:**	4823510
Orig Ground Elev m:	79.9	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 20 metres
DEM Ground Elev m:	80		
Concession:			
Location D:	PORT CREDIT CREEK TO LAKE ONTARIO * STORM SEWER		
Survey D:			
Comments:			

Borehole Geology Stratum

DRAFT

Geology Stratum ID:	6014646	**Mat Consistency:**	Stiff
Top Depth:	1.1	**Material Moisture:**	
Bottom Depth:	6.2	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Silt	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Grey, silty clay, stiff, with some sand; stiff to hard, grey, silty clay with sand and some small stones (glacial till) **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014645	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.1	**Material Texture:**	Fine
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Very fine sand **Note: Many records provided by the department have a truncated [Stratum Description] field.		

195 **1 of 1** **ESE/85.2** **79.8 / 0.00** **ON** **AST**

OGF ID:	1200714515
Sub Type:	Petroleum Tank
Sub Type No:	1332
Location Accuracy:	Within 10 metres
Sensitivity Class:	Non-Sensitive
Sensitivity Date:	20070106
Sensitivity Rationale:	No Restriction Needed
Verification Flag:	Verified
Verification Date:	19980522
Business Effective Dt Flag:	Estimated
Business Effective Dt:	19980522
Sys Calcu Area:	67.0
Sys Calcu Length:	0.0
User Calc Metric:	0.0
Effective Date/Time:	19980522

196 **1 of 1** **W/86.0** **79.8 / 0.00** **ON** **BORE**

Borehole ID:	649451	**Inclin FLG:**	No
OGF ID:	215549826	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JUN-1969	**Municipality:**	
Static Water Level:	0.2	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.557271
Total Depth m:	5.9	**Longitude DD:**	-79.586146
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614195
Drill Method:	Power auger	**Northing:**	4823673
Orig Ground Elev m:	84.4	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	83.6		
Concession:			
Location D:			

DRAFT

Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	218527016	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.3	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Fill	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Gravel	***Geologic Period:***	
Material 4:		***Depositional Gen:***	fill
Gsc Material Description:			
Stratum Description:	FILL,SAND,GRAVEL.		

Geology Stratum ID:	218527017	***Mat Consistency:***	Dense
Top Depth:	.3	***Material Moisture:***	
Bottom Depth:	1.8	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SAND,SILT. BROWN,DENSE, WATER STABLE AT 276.2 FEET.		

Geology Stratum ID:	218527018	***Mat Consistency:***	Hard
Top Depth:	1.8	***Material Moisture:***	
Bottom Depth:	5.9	***Material Texture:***	
Material Color:	Grey	***Non Geo Mat Type:***	
Material 1:	Till	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Clay	***Geologic Period:***	
Material 4:	Sand	***Depositional Gen:***	glacial
Gsc Material Description:			
Stratum Description:	TILL,SILT,CLAY,SAND.GREY,GLACIAL,HARD. 0001003500060079 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	H	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR3.txt RecordID: 201100 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
197	1 of 1	WSW/86.0	78.8 / -1.00	ON	BORE

DRAFT

Borehole ID:	640919	**Inclin FLG:**	No
OGF ID:	215541314	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1965	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.555081
Total Depth m:	2.1	**Longitude DD:**	-79.587435
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614095
Drill Method:	Power auger	**Northing:**	4823428
Orig Ground Elev m:	83.4	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	83.5		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494071	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218494072	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	2.1	**Material Texture:**	Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SILT,SAND-MEDIUM, CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL. -GLACIAL **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 088850 NTS_Sheet: 30M12A		
Confiden 1:	Logs are approximately correct. Lack of information. Doubtful terminology.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

DRAFT

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

---

198 **1 of 2** **NNE/86.1** **80.8 / 1.00** **22 Woodlawn Avenue Mississauga ON** **SPL**

Ref No: 2317-9LWLDC
Site No: NA
Incident Dt: 2014/07/11
Year:
Incident Cause: Leak/Break
Incident Event:
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Possible
Nature of Impact: Air Pollution
Receiving Medium:
Receiving Env:
MOE Response: Referral to others
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/07/11
Dt Document Closed:
Incident Reason: Operator/Human Error
Site Name: 22 Woodlawn Avenue<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: TSSA FSB: 0.5" service line, made safe
Contaminant Qty: 0 other - see incident description

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Pipeline/Components
Agency Involved:
Nearest Watercourse:
Site Address: 22 Woodlawn Avenue
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Mississauga
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Air Spills - Gases and Vapours
Source Type:

---

198 **2 of 2** **NNE/86.1** **80.8 / 1.00** **PIPELINE HIT - 1/2" 22 WOODLAWN AVENUE,,MISSISSAUGA,ON, L5G 3K5,CA ON** **PINC**

Incident Id:
Incident No: 1433866
Incident Reported Dt: 7/11/2014
Type: FS-Pipeline Incident
Status Code:
Tank Status: Not Investigated
Task No:
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt:
Depth:
Customer Acct Name: PIPELINE HIT - 1/2"
Incident Address: 22 WOODLAWN AVENUE,,MISSISSAUGA,ON,L5G 3K5,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary:
Reported By:
Affiliation:
Occurrence Desc:
Damage Reason:
Notes:

Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:
Enforce Policy:
Public Relation:
Pipeline System:
PSIG:
Attribute Category:
Regulator Location:
Method Details:

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
199	1 of 1	NE/87.8	80.8 / 1.00	206-212 Lakeshore Road East and 8 Oakwood Avenue North, Mississauga ON L5G 1G4	EHS

Order No:	20190822022	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	27-AUG-19	**Search Radius (km):**	.25
Date Received:	22-AUG-19	**X:**	-79.578982
Previous Site Name:		**Y:**	43.558447
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
200	1 of 1	W/87.8	79.8 / 0.00	ON	WWIS

Well ID:	7378960	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	29-Jan-2021 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z348115	**Contractor:**	7644
Tag:	A312091	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

Bore Hole Information

Bore Hole ID:	1008614895	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614203.00
Code OB Desc:		**North83:**	4823676.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	15-Dec-2020 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Links

Bore Hole ID:	1008614895	**Tag No:**	A312091
Depth M:		**Contractor:**	7644
Year Completed:	2020	**Path:**	
Well Completed Dt:	2020/12/15	**Latitude:**	43.5572984950517

DRAFT

Audit No:	Z348115			**Longitude:**	-79.5860411586813

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
201	1 of 1	WNW/88.2	79.8 / 0.00	HuLRT WZ1 WWIS Mississauga ON	EHS

Order No:	20292100310	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	24-SEP-20	**Search Radius (km):**	.5
Date Received:	21-SEP-20	**X:**	-79.58579642
Previous Site Name:		**Y:**	43.55732685
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
202	1 of 1	WSW/88.9	78.8 / -1.00	ON	BORE

Borehole ID:	641140	**Inclin FLG:**	No
OGF ID:	215541535	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1965	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.555378
Total Depth m:	2.7	**Longitude DD:**	-79.585943
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614215
Drill Method:	Power auger	**Northing:**	4823463
Orig Ground Elev m:	81.7	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	81.3		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494927	**Mat Consistency:**	
Top Depth:	.4	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	Medium
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,SILT, CLAY. ALLUVIAL,AGE POST-GLACIAL.		

Geology Stratum ID:	218494924	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

DRAFT

Geology Stratum ID:	218494925	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,GRAVEL.		

Geology Stratum ID:	218494926	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.4	**Material Texture:**	Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,SILT, CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.		

Geology Stratum ID:	218494928	**Mat Consistency:**	
Top Depth:	1.2	**Material Moisture:**	
Bottom Depth:	2.7	**Material Texture:**	Medium
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,SILT. GREY,ALLUVIAL, AGE POST-GLACIAL. SAND- **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 091060 NTS_Sheet: 30M12A		
Confiden 1:	Logs are approximately correct. Lack of information. Doubtful terminology.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

203 | ***1 of 2*** | ***E/89.6*** | ***79.8 / 0.00*** | ***Enbridge Gas Distribution Inc.*** ***35 Cumberland Dr*** ***Mississauga ON*** | ***SPL***

Ref No:	3083-AMUE6Q	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	5/23/2017	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	Miscellaneous Communal

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	35	**Nearest Watercourse:**	
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	35 Cumberland Dr
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	1075	**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Air	**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	5/30/2017	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	Operator/Human Error	**Source Type:**	Pipeline/Components
Site Name:	residential<UNOFFICIAL>		
Site County/District:	Regional Municipality of Peel		
Site Geo Ref Meth:			
Incident Summary:	TSSA: 1/2" pl ip line strike -made safe-		
Contaminant Qty:	0 other - see incident description		

---

203 | ***2 of 2*** | ***E/89.6*** | ***79.8 / 0.00*** | ***PIPELINE HIT - 1/2"***
35 CUMBERLAND DR,,MISSISSAUGA,ON,L5G 3M9,CA
ON | ***PINC***

Incident Id:		**Pipe Material:**	
Incident No:	2086656	**Fuel Category:**	
Incident Reported Dt:	5/30/2017	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	
Tank Status:	Pipeline Damage Reason Est	**Service Interrupt:**	
Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	PIPELINE HIT - 1/2"		
Incident Address:	35 CUMBERLAND DR,,MISSISSAUGA,ON,L5G 3M9,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

---

204 | ***1 of 2*** | ***NW/89.8*** | ***80.7 / 0.87*** | ***MISSISSAUGA HYDRO (PCB)***
20 FOREST AVE. C/O 3240 MAVIS ROAD
MISSISSAUGA ON L5G 1K7 | ***GEN***

Generator No:	ON0124345	**Status:**	
SIC Code:	0000	**Co Admin:**	
SIC Description:	*** NOT DEFINED ***	**Choice of Contact:**	
Approval Years:	90	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
204	2 of 2	NW/89.8	80.7 / 0.87	MISSISSAUGA HYDRO (PCB) 00-000 20 FOREST AVE. C/O 3240 MAVIS ROAD MISSISSAUGA ON L5G 1K7	GEN

Generator No: ON0124345
SIC Code: 0000
SIC Description: *** NOT DEFINED ***
Approval Years: 92,93,94
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
205	1 of 1	WSW/89.9	79.8 / 0.00	ON	BORE

Borehole ID: 640928
OGF ID: 215541323
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JAN-1965
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 80.6
Elev Reliabil Note:
DEM Ground Elev m: 80.3
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.555575
Longitude DD: -79.583709
UTM Zone: 17
Easting: 614395
Northing: 4823488
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218494116
Top Depth: 0
Bottom Depth: .1
Material Color:
Material 1: Asphalt
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: ASPHALT.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218494118
Top Depth: .3
Bottom Depth: .8
Material Color: Brown
Material 1: Soil
Material 2: Sand
Material 3: Silt
Material 4: Clay
Gsc Material Description:
Stratum Description: SOIL,SAND-MEDIUM, SILT,CLAY. BROWN.

Mat Consistency:
Material Moisture:
Material Texture: Medium
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218494120
Top Depth: 1.2
Bottom Depth: 1.5
Material Color:

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:

DRAFT

Material 1:	Clay	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	CLAY,SAND,SILT. ALLUVIAL,AGE POST-GLACIAL.		

Geology Stratum ID:	218494121	**Mat Consistency:**	
Top Depth:	1.5	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	Medium
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM. ALLUVIAL,AGE POST-GLACIAL.		

Geology Stratum ID:	218494117	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Clay	**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL-MEDIUM,SAND, SILT,CLAY. BROWN.		

Geology Stratum ID:	218494119	**Mat Consistency:**	
Top Depth:	.8	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	alluvial
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM,CLAY. BROWN,ALLUVIAL, AGE POST-GLACIAL.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 088940 NTS_Sheet: 30M12A		
Confiden 1:	Logs are approximately correct. Lack of information. Doubtful terminology.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

206	*1 of 1*	*NNW/91.4*	*80.8 / 1.00*		***BORE***
				ON	

DRAFT

Borehole ID:	640723	**Inclin FLG:**	No
OGF ID:	215541119	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.558024
Total Depth m:	3	**Longitude DD:**	-79.581547
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614565
Drill Method:		**Northing:**	4823763
Orig Ground Elev m:	82.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	82		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218493318	**Mat Consistency:**	
Top Depth:	.1	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:	Dark	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	SAND,SILT,CLAY. DARK,FLUVIO-GLACIAL, AGE GLACIAL.		

Geology Stratum ID:	218493320	**Mat Consistency:**	
Top Depth:	1.4	**Material Moisture:**	
Bottom Depth:	3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Till	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	CLAY,SAND,SILT,TILL.GLACIAL,AGE GLACIAL. AL.		

Geology Stratum ID:	218493317	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218493319	**Mat Consistency:**	
Top Depth:	.2	**Material Moisture:**	
Bottom Depth:	1.4	**Material Texture:**	Fine to Medium
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	beach
Gsc Material Description:			

DRAFT

Stratum Description: SAND-FINE TO MEDIUM.BROWN,BEACH.

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:		***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 086890 NTS_Sheet: 30M12A		
Confiden 1:			

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

207 | ***1 of 1*** | ***S/92.3*** | ***79.0 / -0.82*** | ***150 LAKESHORE ROAD EAST WELL LOCATED ON ROAD Mississauga ON*** | ***WWIS***

Well ID:	7298174	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	31-Oct-2017 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z255553	***Contractor:***	6607
Tag:	A232595	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	PEEL
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2017/09/20
Year Completed:	2017
Depth (m):	4.1
Latitude:	43.5559120903439
Longitude:	-79.5809727400818
Path:	

Bore Hole Information

Bore Hole ID:	1006785449	***Elevation:***	
DP2BR:		***Elevrc:***	

DRAFT

Spatial Status:		***Zone:***	17
Code OB:		***East83:***	614615.00
Code OB Desc:		***North83:***	4823529.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	20-Sep-2017 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006961707
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	3.0
Formation End Depth:	4.099999904632568
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006961705
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	01
Mat3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	1.2000000476837158
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006961706
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	1.2000000476837158
Formation End Depth:	3.0

DRAFT

Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006961714
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006961715
Layer: 2
Plug From: 0.30000001192092896
Plug To: 1.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006961713
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1006961704
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006961710
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.10000000149011612
Depth To: 1.2999999523162842
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006961711
Layer: 1
Slot: 10
Screen Top Depth: 1.2999999523162842
Screen End Depth: 4.099999904632568
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

DRAFT

Water ID: 1006961709
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006961708
Diameter: 21.0
Depth From: 0.0
Depth To: 4.099999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1006785449
Depth M: 4.1
Year Completed: 2017
Well Completed Dt: 2017/09/20
Audit No: Z255553
Tag No: A232595
Contractor: 6607
Path: 729\7298174.pdf
Latitude: 43.5559120903439
Longitude: -79.5809727400818

---

208 **1 of 1** **SSE/92.4** **77.9 / -1.99** **ON** **AST**

OGF ID: 1200714529
Sub Type: Petroleum Tank
Sub Type No: 1332
Location Accuracy: Within 10 metres
Sensitivity Class: Non-Sensitive
Sensitivity Date: 20070106
Sensitivity Rationale: No Restriction Needed
Verification Flag: Verified
Verification Date: 19980522
Business Effective Dt Flag: Estimated
Business Effective Dt: 19980522
Sys Calcu Area: 154.5
Sys Calcu Length: 0.0
User Calc Metric: 0.0
Effective Date/Time: 19980522

---

209 **1 of 1** **WSW/92.8** **79.8 / 0.00** **ON** **BORE**

Borehole ID: 649444
OGF ID: 215549819
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JAN-1959
Static Water Level: 0.3
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 6.2
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Diamond Drill
Orig Ground Elev m: 79.9
Elev Reliabil Note:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.555691
Longitude DD: -79.582159
UTM Zone: 17
Easting: 614520
Northing: 4823503
Location Accuracy:
Accuracy: Not Applicable

DRAFT

DEM Ground Elev m: 79.8
Concession:
Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 218526997
Top Depth: 0
Bottom Depth: 1.1
Material Color:
Material 1: Sand
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218526998
Top Depth: 1.1
Bottom Depth: 6.2
Material Color:
Material 1: Till
Material 2: Clay
Material 3: Silt
Material 4:
Gsc Material Description:
Stratum Description: TILL,CLAY,SILT. VERY DENSE, WATER STABLE AT 261.3 FEET. 012 00035065S **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency: Dense
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: H
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR3.txt RecordID: 201030 NTS_Sheet: 30M12A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

210	1 of 1	NE/93.0	80.9 / 1.09	206-212 Lakeshore Road East 8 Oakwood Avenue Mississauga ON	EHS

Order No: 20110205006
Status: C
Report Type: Custom Report
Report Date: 2/11/2011
Date Received: 2/5/2011 12:30:58 PM
Previous Site Name:
Lot/Building Size:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.578913
Y: 43.558466

DRAFT

Additional Info Ordered:

211 | 1 of 1 | E/93.4 | 80.6 / 0.80 | ON | BORE

Borehole ID:	641026	**Inclin FLG:**	No
OGF ID:	215541421	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	FEB-1970	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.557834
Total Depth m:	2	**Longitude DD:**	-79.573504
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615215
Drill Method:	Power auger	**Northing:**	4823753
Orig Ground Elev m:	80.5	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	80.2		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218494481	**Mat Consistency:**	
Top Depth:	.5	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	CLAY,SILT,SAND. BROWN,LACUSTRINE,AGE GLACIAL.		

Geology Stratum ID:	218494479	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	0	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ASPHALT.		

Geology Stratum ID:	218494480	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.5	**Material Texture:**	
Material Color:	Dark	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SILT,SAND,CLAY. DARK.		

Geology Stratum ID:	218494482	**Mat Consistency:**	
Top Depth:	.9	**Material Moisture:**	

DRAFT

Bottom Depth:	2	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	lacustrine
Gsc Material Description:			
Stratum Description:	SILT,CLAY,SAND. BROWN,LACUSTRINE,AGE GLACIAL. AY,SILT.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 089920 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

212 ***1 of 1*** ***ENE/93.4*** ***79.8 / 0.00*** ***ON*** ***BORE***

Borehole ID:	641266	**Inclin FLG:**	No
OGF ID:	215541661	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1967	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.560258
Total Depth m:	2.1	**Longitude DD:**	-79.572952
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615255
Drill Method:	Power auger	**Northing:**	4824023
Orig Ground Elev m:	80	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218495459	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	0	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Asphalt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	

DRAFT

Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: ASPHALT.

Geology Stratum ID: 218495460
Top Depth: 0
Bottom Depth: 1.8
Material Color: Brown
Material 1: Fill
Material 2: Sand
Material 3: Silt
Material 4: Clay
Gsc Material Description:
Stratum Description: FILL,SAND,SILT,CLAY.BROWN,MOIST.

Mat Consistency:
Material Moisture: Moist
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: fill

Geology Stratum ID: 218495461
Top Depth: 1.8
Bottom Depth: 2.1
Material Color: Brown
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SAND-FINE,SILT,CLAY.GREY,BROWN,LACUSTRINE,MOIST, AGE GLACIAL. L. SILT, **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture: Moist
Material Texture: Fine
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: lacustrine

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 092320 NTS_Sheet: 30M12A
Confiden 1: Reliable information but incomplete.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

213 ***1 of 1*** ***ENE/93.5*** ***80.8 / 1.00*** ***ON*** ***BORE***

Borehole ID: 641143
OGF ID: 215541538
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: FEB-1970
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 2.7
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.557524
Longitude DD: -79.577473
UTM Zone: 17
Easting: 614895
Northing: 4823713

DRAFT

Orig Ground Elev m: 81.1
Elev Reliabil Note:
DEM Ground Elev m: 80.7
Concession:
Location D:
Survey D:
Comments:

Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218494941
Top Depth: .1
Bottom Depth: .2
Material Color:
Material 1: Fill
Material 2: Gravel
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: FILL,GRAVEL. CRUSHED.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: fill

Geology Stratum ID: 218494940
Top Depth: 0
Bottom Depth: .1
Material Color:
Material 1: Asphalt
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: ASPHALT.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218494942
Top Depth: .2
Bottom Depth: 2.7
Material Color:
Material 1: Clay
Material 2: Silt
Material 3: Sand
Material 4:
Gsc Material Description:
Stratum Description: CLAY,SILT,SAND. LACUSTRINE,DENSE,AGE GLACIAL. GLACIAL.

Mat Consistency: Dense
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: lacustrine

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: H
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 091090 NTS_Sheet: 30M12A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
214	1 of 1	W/94.0	79.8 / 0.00	ON	WWIS

Well ID:	7378961	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	29-Jan-2021 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z348114	**Contractor:**	7644
Tag:	A312085	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	PEEL
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MISSISSAUGA CITY (PORT CREDIT)		
Site Info:			

Bore Hole Information

Bore Hole ID:	1008614898	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614201.00
Code OB Desc:		**North83:**	4823682.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	18-Dec-2020 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Links

Bore Hole ID:	1008614898	**Tag No:**	A312085
Depth M:		**Contractor:**	7644
Year Completed:	2020	**Path:**	
Well Completed Dt:	2020/12/18	**Latitude:**	43.5573528100356
Audit No:	Z348114	**Longitude:**	-79.5860646503373

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
215	1 of 1	W/94.6	79.8 / 0.00	ON	BORE

Borehole ID:	833843	**Inclin FLG:**	No
OGF ID:	215585974	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	21-JUN-1969	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.557353

DRAFT

Total Depth m:	2.1	**Longitude DD:**	-79.586114
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	614197
Drill Method:	Hand auger	**Northing:**	4823682
Orig Ground Elev m:	84.4	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	83.2		
Concession:			
Location D:	CNR (PORT CREDIT) * GO TRANSIT PARKING LOT EXTENSION		
Survey D:			
Comments:	Hole dry on June 21, 1969		

Borehole Geology Stratum

Geology Stratum ID:	6014611	**Mat Consistency:**	Very Stiff
Top Depth:	1.2	**Material Moisture:**	
Bottom Depth:	2.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Clayey silt, some sand & gravel, (glacial till), very stiff **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	6014610	**Mat Consistency:**	Compact
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	Fine
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Silty fine sand, brown, compact **Note: Many records provided by the department have a truncated [Stratum Description] field.		

216 ***1 of 1*** ***E/95.1*** ***79.4 / -0.49*** ***ON*** ***BORE***

Borehole ID:	641030	**Inclin FLG:**	No
OGF ID:	215541425	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	FEB-1970	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.55633
Total Depth m:	4.1	**Longitude DD:**	-79.575644
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	615045
Drill Method:	Power auger	**Northing:**	4823583
Orig Ground Elev m:	78.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	79.2		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

DRAFT

Geology Stratum ID: 218494494
Top Depth: 0
Bottom Depth: .1
Material Color:
Material 1: Asphalt
Material 2: Stones
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: ASPHALT,STONES.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218494499
Top Depth: 3.4
Bottom Depth: 4.1
Material Color:
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SAND,SILT,CLAY. LACUSTRINE,AGE GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: lacustrine

Geology Stratum ID: 218494498
Top Depth: 2.1
Bottom Depth: 3.4
Material Color: Grey
Material 1: Silt
Material 2: Clay
Material 3: Sand
Material 4:
Gsc Material Description:
Stratum Description: SILT,CLAY,SAND. GREY,LACUSTRINE,MOIST, AGE GLACIAL.

Mat Consistency:
Material Moisture: Moist
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: lacustrine

Geology Stratum ID: 218494497
Top Depth: .8
Bottom Depth: 2.1
Material Color: Brown
Material 1: Clay
Material 2: Silt
Material 3: Sand
Material 4:
Gsc Material Description:
Stratum Description: CLAY,SILT,SAND. BROWN,LACUSTRINE,AGE GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: lacustrine

Geology Stratum ID: 218494495
Top Depth: .1
Bottom Depth: .2
Material Color:
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SAND,SILT,CLAY.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218494496
Top Depth: .2
Bottom Depth: .8
Material Color: Dark
Material 1: Silt
Material 2: Sand
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SILT,SAND,CLAY. DARK,LACUSTRINE,AGE GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: lacustrine

DRAFT

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	H	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: TOR1B.txt RecordID: 089960 NTS_Sheet: 30M12A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

---

217 ***1 of 1*** ***WSW/95.3*** ***79.8 / 0.00*** ***ON*** ***BORE***

Borehole ID:	639272	***Inclin FLG:***	No
OGF ID:	215539669	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	JAN-1965	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.555371
Total Depth m:	2.7	***Longitude DD:***	-79.585386
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	614260
Drill Method:	Power auger	***Northing:***	4823463
Orig Ground Elev m:	81.4	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	80.7		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218487715	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.3	***Material Texture:***	
Material Color:	Grey	***Non Geo Mat Type:***	
Material 1:	Fill	***Geologic Formation:***	
Material 2:	Gravel	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	fill
Gsc Material Description:			
Stratum Description:	FILL,GRAVEL. GREY.		

Geology Stratum ID:	218487717	***Mat Consistency:***	
Top Depth:	1.2	***Material Moisture:***	Moist
Bottom Depth:	2.7	***Material Texture:***	Medium
Material Color:	Brown	***Non Geo Mat Type:***	

DRAFT

Material 1: Sand
Material 2: Clay
Material 3: Silt
Material 4:
Gsc Material Description:
Stratum Description: SAND-MEDIUM,CLAY, SILT. BROWN,ALLUVIAL,MOIST, AGE POST-GLACIAL. LUVIAL **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Geology Stratum ID: 218487716
Top Depth: .3
Bottom Depth: 1.2
Material Color:
Material 1: Sand
Material 2: Clay
Material 3: Silt
Material 4:
Gsc Material Description:
Stratum Description: SAND,CLAY,SILT. ALLUVIAL,AGE POST-GLACIAL.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen: alluvial

Geology Stratum ID: 218487714
Top Depth: 0
Bottom Depth: 0
Material Color:
Material 1: Asphalt
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: ASPHALT.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: TOR1B.txt RecordID: 072350 NTS_Sheet: 30M12A
Confiden 1: Logs are approximately correct. Lack of information. Doubtful terminology.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

---

218 | ***1 of 1*** | ***WSW/96.3*** | ***78.8 / -1.06*** | ***PETRO-CANADA 39 STAVEVANK RD. MISSISSAUGA REFINERY/LUBRICANTS CENTRE 385 SOUTHDOWN ROAD MISSISSAUGA CITY ON*** | ***SPL***

Ref No: 85609
Site No:
Incident Dt: 5/14/1993
Year:
Incident Cause: PIPE/HOSE LEAK
Incident Event:
Contaminant Code:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	CONFIRMED	**Site Municipality:**	21102
Nature of Impact:	Air Pollution	**Site Lot:**	
Receiving Medium:	AIR	**Site Conc:**	
Receiving Env:		**Northing:**	4817190.00
MOE Response:		**Easting:**	612350.00
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	5/14/1993	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	CORROSION	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PETRO-CANADA -4500KG HOT ASPHALT TO CONTAINED AREAFUMES/VAPOURS TO ATM.		
Contaminant Qty:			

---

219 | ***1 of 1*** | ***ESE/98.1*** | ***79.8 / 0.00*** | ***ON*** | ***AST***

OGF ID:	1200714516
Sub Type:	Petroleum Tank
Sub Type No:	1332
Location Accuracy:	Within 10 metres
Sensitivity Class:	Non-Sensitive
Sensitivity Date:	20070106
Sensitivity Rationale:	No Restriction Needed
Verification Flag:	Verified
Verification Date:	19980522
Business Effective Dt Flag:	Estimated
Business Effective Dt:	19980522
Sys Calcu Area:	61.0
Sys Calcu Length:	0.0
User Calc Metric:	0.0
Effective Date/Time:	19980522

---

220 | ***1 of 1*** | ***ESE/98.8*** | ***79.8 / 0.00*** | ***ON*** | ***AST***

OGF ID:	1200714512
Sub Type:	Petroleum Tank
Sub Type No:	1332
Location Accuracy:	Within 10 metres
Sensitivity Class:	Non-Sensitive
Sensitivity Date:	20070106
Sensitivity Rationale:	No Restriction Needed
Verification Flag:	Verified
Verification Date:	19980522
Business Effective Dt Flag:	Estimated
Business Effective Dt:	19980522
Sys Calcu Area:	12.0
Sys Calcu Length:	0.0
User Calc Metric:	0.0
Effective Date/Time:	19980522

---

221 | ***1 of 1*** | ***S/98.8*** | ***79.0 / -0.82*** | ***Nordex Explosives Ltd.***
145 Lakeshore Rd E
Mississauga ON L5G 4T9 | ***SCT***

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Explosives Manufacturing
SIC/NAICS Code: 325920

---

222 ***1 of 10*** ***WSW/98.9*** ***79.8 / 0.00*** ***BELL CANADA*** ***CFOT***
80 HIGH ST E MISSISSAUGA L5G 1K2 ON CA
ON

Licence No:
Registration No:
Posse File No:
Posse Reg No:
Status Name:
Tank Type: Double Wall UST
Tank Size: 5000
Tank Material: Fiberglass (FRP)
Instance No: 64643253
Inst Creation Date: 3/6/2014 12:20:42 PM
Inst Install Date: 3/6/2014 12:20:42 PM
Item: FS FUEL OIL TANK
Tank Age (as of 05/1992):
Device Installed Location: 80 HIGH ST E MISSISSAUGA L5G 1K2 ON CA
Description: Veeder-Root Leak Detection System. Brine interstitial monitoring
Contact Name:
Contact Address:
Contact Address2:
Contact Suite:
Contact City:
Contact Prov:
Contact Postal:
Item Description: Fuel Oil Tank
Instance Type:
Facility Type:
Fuel Type:
Distributor:
Letter Sent:
Comments:
Corrosion Protect:
Province:
Nbr:
Context: FS Fuel Oil Tank

---

222 ***2 of 10*** ***WSW/98.9*** ***79.8 / 0.00*** ***Bell*** ***GEN***
80 High St
Mississauga ON L5G 1K2

Generator No: ON8534293
SIC Code: 517210, 517510, 517910
SIC Description: WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE), 517510, OTHER TELECOMMUNICATIONS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Julie Labelle
Choice of Contact: CO_ADMIN
Phone No Admin: 5148700688 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

---

222 ***3 of 10*** ***WSW/98.9*** ***79.8 / 0.00*** ***Bell*** ***GEN***
80 High St
Port Credit ON L5G 1K4

DRAFT

Generator No: ON9607199
SIC Code: 517210, 517510, 517910
SIC Description: WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE), 517510, OTHER TELECOMMUNICATIONS
Approval Years: 2016
PO Box No:
Country: Canada

Status:
Co Admin: Chloé Lamothe-Luneau
Choice of Contact: CO_ADMIN
Phone No Admin: 514-391-1021 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

---

222 **4 of 10** **WSW/98.9** **79.8 / 0.00** **GEN**

Bell
80 High St
Mississauga ON L5G 1K2

Generator No: ON8534293
SIC Code: 517210, 517510, 517910
SIC Description: WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE), 517510, OTHER TELECOMMUNICATIONS
Approval Years: 2014
PO Box No:
Country: Canada

Status:
Co Admin: Julie Labelle
Choice of Contact: CO_ADMIN
Phone No Admin: 5148700688 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

---

222 **5 of 10** **WSW/98.9** **79.8 / 0.00** **GEN**

Bell
80 High St
Port Credit ON L5G 1K4

Generator No: ON9607199
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 221 L
Waste Class Desc: Light fuels

Waste Class: 243 D
Waste Class Desc: PCB

Waste Class: 251 L

DRAFT

Waste Class Desc: Waste oils/sludges (petroleum based)

---

222 **6 of 10** **WSW/98.9** **79.8 / 0.00** **80 High Street East**
Mississauga ON **SPL**

Ref No:	6026-AP7STY	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	7/12/2017	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Municipal Sewage
Incident Event:	Overflow/Surcharge	**Agency Involved:**	
Contaminant Code:	44	**Nearest Watercourse:**	
Contaminant Name:	SEWAGE,RAW UNCHLORINATED	**Site Address:**	80 High Street East
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	n/a	**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	4823475.24
MOE Response:	No	**Easting:**	614406.87
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	7/12/2017	**Site Map Datum:**	
Dt Document Closed:	7/19/2017	**SAC Action Class:**	Land Spills
Incident Reason:	Blockage	**Source Type:**	Sewer (Private or Municipal)

Site Name: Sanitary sewer blockage<UNOFFICIAL>
Site County/District: Regional Municipality of Peel
Site Geo Ref Meth:
Incident Summary: DWMD: Rgn of Peel sanitary sewer blockage surcharge to prvt property.
Contaminant Qty: 1 n/a

---

222 **7 of 10** **WSW/98.9** **79.8 / 0.00** **Bell Canada**
80 High Street
Mississauga ON **SPL**

Ref No:	7617-B5LNZS	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2018/10/16	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	Miscellaneous Communal
Incident Event:	Overflow/Surcharge	**Agency Involved:**	
Contaminant Code:	13	**Nearest Watercourse:**	
Contaminant Name:	DIESEL FUEL	**Site Address:**	80 High Street
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	1202	**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	4823475.22
MOE Response:	No	**Easting:**	614406.87
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2018/10/16	**Site Map Datum:**	
Dt Document Closed:	2018/11/27	**SAC Action Class:**	Land Spills
Incident Reason:	Equipment Failure	**Source Type:**	Tank - Above Ground

Site Name: Commerical Area<UNOFFICIAL>
Site County/District: Regional Municipality of Peel
Site Geo Ref Meth:
Incident Summary: Bell: 5L diesel spill to ground, cntd.
Contaminant Qty: 5 L

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
222	8 of 10	WSW/98.9	79.8 / 0.00	Bell 80 High St Port Credit ON L5G 1K4	GEN

Generator No:	ON9607199	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Jul 2020	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	121 C
Waste Class Desc:	Alkaline slutions - containing heavy metals
Waste Class:	221 L
Waste Class Desc:	Light fuels
Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)
Waste Class:	243 D
Waste Class Desc:	PCB

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
222	9 of 10	WSW/98.9	79.8 / 0.00	BELL CANADA 80 HIGH ST E MISSISSAUGA L5G 1K2 ON CA ON	DTNK

Delisted Fuel Storage Tank

Instance No:	64643253	**Creation Date:**	3/6/2014 12:21:32 PM
Status:	Active	**Overfill Prot Type:**	
Instance Type:		**Facility Location:**	80 HIGH ST E MISSISSAUGA L5G 1K2 ON CA
Fuel Type:		**Piping SW Steel:**	
Cont Name:		**Piping SW Galvan:**	
Capacity:	5000	**Tanks SW Steel:**	
Tank Material:	Fiberglass (FRP)	**Piping Underground:**	
Corrosion Prot:	Fiberglass	**No Underground:**	
Tank Type:	Double Wall UST	**Max Hazard Rank:**	NULL
Install Year:	2014	**Max Hazard Rank 1:**	NULL
Facility Type:	FS FUEL OIL TANK	**Nxt Period Start Dt:**	NULL
Device Installed Loc:		**Program Area 1:**	NULL
Fuel Type 2:		**Program Area 2:**	NULL
Fuel Type 3:		**Nxt Period Strt Dt 2:**	NULL
Item:		**Risk Based Periodic:**	NULL
Item Description:	Fuel Oil Tank	**Vol of Directives:**	NULL
Model:	NULL	**Years in Service:**	NULL
Description:	Veeder-Root Leak Detection System. Brine interstitial monitoring	**Created Date:**	NULL
Instance Creation Dt:	3/6/2014 12:20:42 PM	**Federal Device:**	NULL
Instance Install Dt:	3/6/2014 12:20:42 PM	**Periodic Exempt:**	NULL
Manufacturer:	NULL	**Statutory Interval:**	NULL
Serial No:	NULL	**Rcomnd Insp Interval:**	NULL
ULC Standard:	NULL	**Recommended Toler:**	NULL
Quantity:	1	**Panam Venue Name:**	NULL
Unit of Measure:	EA	**External Identifier:**	NULL
Parent Fac Type:			
TSSA Base Sched Cycle 1:	NULL		
TSSA Base Sched Cycle 2:	NULL		
Original Source:	FST		
Record Date:	31-MAY-2021		

DRAFT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
222	10 of 10	WSW/98.9	79.8 / 0.00	Bell 80 High St Port Credit ON L5G 1K4	GEN

Generator No: ON9607199
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 L
Waste Class Desc: Light fuels

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 243 D
Waste Class Desc: PCB

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
223	1 of 1	WNW/99.3	79.8 / 0.00	30 QUEEN ST E Mississauga ON	WWIS

Well ID: 7290480
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z248282
Tag: A209829
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MISSISSAUGA CITY (PORT CREDIT)
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 18-Jul-2017 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 7
Owner:
County: PEEL
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2017/05/26
Year Completed: 2017
Depth (m): 11.9
Latitude: 43.5574704078907
Longitude: -79.5853809447429
Path:

Bore Hole Information

DRAFT

Bore Hole ID:	1006630636	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	614256.00
Code OB Desc:		**North83:**	4823696.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	26-May-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006694573
Layer:	5
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	9.0
Formation End Depth:	11.899999618530273
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006694569
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	01
Mat3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	0.6000000238418579
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006694571
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	66

DRAFT

Mat3 Desc: DENSE
Formation Top Depth: 3.4000000953674316
Formation End Depth: 7.599999904632568
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006694570
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 28
Mat2 Desc: SAND
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 0.6000000238418579
Formation End Depth: 3.4000000953674316
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1006694572
Layer: 4
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 06
Mat2 Desc: SILT
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 7.599999904632568
Formation End Depth: 9.0
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006694583
Layer: 2
Plug From: 0.30000001192092896
Plug To: 8.399999618530273
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006694581
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006694582
Layer: 1

DRAFT

Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006694580
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1006694568
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006694577
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.10000000149011612
Depth To: 9.0
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006694578
Layer: 1
Slot: 10
Screen Top Depth: 9.0
Screen End Depth: 11.899999618530273
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1006694576
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006694574
Diameter: 21.0
Depth From: 0.0
Depth To: 9.0
Hole Depth UOM: m
Hole Diameter UOM: cm

DRAFT

Hole Diameter

Hole ID:	1006694575
Diameter:	9.600000381469727
Depth From:	9.0
Depth To:	11.899999618530273
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1006630636	***Tag No:***	A209829
Depth M:	11.9	***Contractor:***	6607
Year Completed:	2017	***Path:***	
Well Completed Dt:	2017/05/26	***Latitude:***	43.5574704078907
Audit No:	Z248282	***Longitude:***	-79.5853809447429

DRAFT

Unplottable Summary

Total: 90 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Petro-Canada Inc.	Block 172, Registered Plan 43M-1484	Mississauga ON	
CA		Lakeshore Road East, Helen Street, Port Street, and St. Lawrence Drive	Mississauga ON	
CA	Lakeshore Road East, Helen Street, Port Street, and St. Lawrence Drive	Lakeshore Road East	Mississauga ON	
CA	Hurontario Eglinton Centre, Hurontario Street East	Part Lot 1, Conc. 1, East of Hurontario Street	Mississauga ON	
CA		Part of Lot 12, Conc.4, West of Hurontario St.	Mississauga ON	
CA		Part of Lot 12, Conc.4, West of Hurontario St.	Mississauga ON	
CA		PT Lot 10, Concession 4, West of Hurontario Street	Mississauga ON	
CA		PT Lot 10, Concession 4, West of Hurontario Street	Mississauga ON	
CA		Part of West Half of Lots 11 and 12, Concession 2, West of Hurontario Street	Mississauga ON	
CA		Lakeshore Road East	Mississauga ON	
CA	Creditview Country Club South - Phase I	Part of Lot 5, Conc. 3, West of Hurontario Street	Mississauga ON	
CA	Creditview Country Club South - Phase 2	Part of Lot 5, Conc. 3, West Hurontario Street	Mississauga ON	
CA	Creditview Country Club South - Phase I	Part of Lot 5, Conc. 3, West of Hurontario Street	Mississauga ON	
CA	Creditview Country Club South - Phase 2	Part of Lot 5, Conc. 3, West Hurontario Street	Mississauga ON	
CA		Part of Lot 11, Conc. 2, West of Hurontario Street	Mississauga ON	
CA		Part of Lot 11, Conc. 2, West of Hurontario Street	Mississauga ON	

DRAFT

CA	PEEL NON-PROFIT HOUSING CORP.	HURONTARIO ST.,PT.LOT 10/C-18	MISSISSAUGA CITY ON
CA		Lot 5, Concession 2 West of Hurontario Street	Mississauga ON
CA		Lot 5, Concession 2 West of Hurontario Street	Mississauga ON
CA	Ivycrest Estates Inc. Dev. - Meadowvale Village	Part of Lot 11, Concession 2, W. of Hurontario St.	Mississauga ON
CA	Ivycrest Estates Inc. Dev. - Meadowvale Village	Part of Lot 11, Concession 2, W. of Hurontario St.	Mississauga ON
CA	Meadowvale Village Secondary Plan Area	W. of Hurontario St., Part Lot 12, Conc. 2	Mississauga ON
CA		Part of Lot 11, Conc. 2, West of Hurontario Street	Mississauga ON
CA		Part of Lot 11, Conc. 2, West of Hurontario Street	Mississauga ON
CA		Part of Lot 11, Conc. 2, West of Hurontario Street	Mississauga ON
CA		Part of Lot 11, Conc. 2, West of Hurontario Street	Mississauga ON
CA	GRAYLIGHT PROPERTIES LTD.	PT.LOT 3/CON.2, HURONTARIO ST.	MISSISSAUGA CITY ON
CA	MISSISSAUGA CITY	HURONTARIO ST., HERITAGE WALK	MISSISSAUGA CITY ON
CA	R.M. OF PEEL	LTS.2&3,RANGE 1/ROSEWOOD AVE.	MISSISSAUGA ON
CA	R.M. OF PEEL	LTS.2&3/RANGE 1/ROSEWOOD AVE.	MISSISSAUGA ON
CA	GOTTARDO PROPERTIES LTD. & GOTTARDO CORP	HURONTARIO ST. STREET A	MISSISSAUGA CITY ON
CA	TRANS-NORTHERN PIPELINES INC.	PT.LOT 6/CON.7,E.HURONTARIO ST	MISSISSAUGA CITY ON
CA	PETRO-CANADA PRODUCTS-LAKE ONTARIO REFIN	ZEBRA MUSSEL CONTROL PROGRAM	MISSISSAUGA CITY ON
CA	JOSEPH GYETVAN	HURONTARIO ST.	MISSISSAUGA CITY ON
CA	HUNTINGFIELD CHASE LTD.-PT.LOTS 1&2/C-1	ST.'A'/HURONTARIO ST.(HWY.#10)	MISSISSAUGA CITY ON
CA	THE ANTREX GROUP-PT. LOTS 2 & 3, CONC. 1	STREET 'A'/HURONTARIO ST.	MISSISSAUGA CITY ON
CA	R.M. OF PEEL	STAVEBANK RD.	MISSISSAUGA CITY ON
CA	MISSISSAUGA CITY CITY CENTRE PLAZA	HURONTARIO ST. PH. 1 TO 5	MISSISSAUGA CITY ON

DRAFT

CA	WHITNEY HOMES	QUEEN ST. E. STREET A	MISSISSAUGA CITY ON	
CA	MISSISSAUGA CITY	HIGH STREET, PORT CREDIT	MISSISSAUGA CITY ON	
CA	E. ESCUBEDO, C. DIPLACIDO & R. LAYFIELD	HURONTARIO ST./STM-WATER MGT.	MISSISSAUGA CITY ON	
CA	THE ANTREX GROUP-PT. LOTS 2 & 3/CONC. 1	STREET 'A'/HURONTARIO ST.	MISSISSAUGA CITY ON	
CA	MISSISSAUGA CITY	STAVEBANK RD.	MISSISSAUGA CITY ON	
CA	WHITNEY HOMES	QUEEN ST. STREET A	MISSISSAUGA CITY ON	
CA	G.L. BALL CLEARVIEW CREEK CANNELIZATION	LAKESHORE RD.	MISSISSAUGA CITY ON	
CA	MISSISSAUGA CITY	HURONTARIO STREET	MISSISSAUGA CITY ON	
CA	GOTTARDO PROPERTIES LTD. & GOTTARDO CORP	HURONTARIO ST. STREET A	MISSISSAUGA CITY ON	
CA	R.M. OF PEEL	ELMWOOD AVENUE	MISSISSAUGA CITY ON	
CA	MISSISSAUGA CITY	LAKESHORE RD. TURTLE CREEK	MISSISSAUGA CITY ON	
CA	KNOWASTE TECH. INC.	HURONTARIO ST.,PT.LOT 11/CON.3	MISSISSAUGA CITY ON	
ECA	The Regional Municipality of Peel	High Street Park St E & Hurontario Street	Mississauga ON	L6T 4B9
ECA	Fram Builders (Durham) Corp.	Lakeshore Road East	Mississauga ON	M9W 6V1
ECA	GWL Realty Advisors Inc.	Part of Lot 11, Concession 1, West of Hurontario Street	Mississauga ON	L3R 0B8
ECA	The Regional Municipality of Peel	Hurontario Street & Elmwood Ave	Mississauga ON	L6T 4B9
ECA	The Regional Municipality of Peel	Stavebank Road	Mississauga ON	L6T 4B9
ECA	Windscale Development Corp.	PT Lot 10, Concession 4, West of Hurontario Street	Mississauga ON	M2K 1W6
GEN	Regional Municipality of Peel	Lakeshore Rd intersection, Front to Cumberland Dr.	Mississauga ON	L5G 1E5
GEN	TWD ROADS MANAGEMENT INC.	LOT 6, CONCESSION 1 EAST OF HURONTARIO STREET	MISSISSAUGA ON	L5M 2B5
GEN	TWD ROADS MANAGEMENT INC.	LOT 6, CONCESSION 1 EAST OF HURONTARIO STREET	MISSISSAUGA ON	
GEN	PEMBINA RESOURCES	LOT 6, CONCESSION 1	PORT COLBORNE ON	L5M 2B5
GEN	BELL CANADA	VARIOUS BELL CANADA MANHOLES AND	(SEE SCHEDULE "B") ON	

DRAFT

		ACCESS CHAMBERS WITHIN THE MOE CENTRAL REG.		
PINC	PIPELINE HIT - 1/2"	BLOCK 16, BOXFORD CRESCENT,UNIT 132, MISSISSAUGA,ON,L5M 0X1,CA	ON	
SPL		Queen St E and Goreway	Mississauga ON	
SPL	PETRO-CANADA	TANK TRUCK (CARGO)	MISSISSAUGA CITY ON	
SPL	PETRO-CANADA	SERVICE STATION	MISSISSAUGA CITY ON	
SPL	CANADIAN PACIFIC RAILWAYS	AT THE STREETSVILLE C.P. RAIL YARD ON QUEEN STREET. TRAIN	MISSISSAUGA CITY ON	
SPL		PETRO-CANADA SERVICE STATION \	MISSISSAUGA CITY ON	
SPL	GREEN SPACE SERVICES (SEARS LAW	JACK DARLING PARK,LAKESHORE ROAD. TANK TRUCK (CARGO)	MISSISSAUGA CITY ON	
SPL	The Corporation of the City of Mississauga	RICHARDS MEMORIAL PARK, NEAR LAKESHORE RD.<UNOFFICIAL>	Mississauga ON	
SPL	Apex Motor Express	Northbound Hurontario St	Mississauga ON	
SPL	Petro-Canada Lubricants Inc.	Clarkson Refinery	Mississauga ON	L5J 2Y3
SPL		MVA at Hurontario St just north of 401 <UNOFFICIAL>	Mississauga ON	
SPL	Petro-Canada Lubricants Inc.	Clarkson Refinery	Mississauga ON	L5J 2Y3
SPL	Petro-Canada	Clarkson Refinery	Mississauga ON	
SPL	The Corporation of the City of Mississauga	Elmwood Ave - south of lakeshore east and Hwy 10	Mississauga ON	
SPL	Petro-Canada Lubricants Inc.	Clarkson Refinery	Mississauga ON	NA
SPL		under Lakeshore Road	Mississauga ON	
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON	
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON	
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON	
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON	
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON	

DRAFT

SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON	
SRDS	PETRO-CANADA PRODUCTS - MISSISSAUGA LUBRICANTS CENTER		MISSISSAUGA ON	
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON	
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON	
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON	
SRDS	PETRO-CANADA LUBRICANTS INC.		MISSISSAUGA ON	
WDS	Petro-Canada Lubricants Inc.	Clarkson Refinery	Mississauga ON	L5J 2Y3
WDS	Petro-Canada Lubricants Inc.	Clarkson Refinery	Mississauga ON	L5J 2Y3

DRAFT

Unplottable Report

Site: ***Petro-Canada Inc.***
Block 172, Registered Plan 43M-1484 Mississauga ON

Database: ***CA***

Certificate #: 3278-6JSJPM
Application Year: 2005
Issue Date: 12/7/2005
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site:
Lakeshore Road East, Helen Street, Port Street, and St. Lawrence Drive Mississauga ON

Database: ***CA***

Certificate #: 6288-4QGS2N
Application Year: 00
Issue Date: 10/30/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Fram Builders (Durham) Corp.
Client Address: 135 Queen's Plate Drive
Client City: Toronto
Client Postal Code: M9W 6V1
Project Description: Construction of watermains on Port street and St. Lawrence Drive.
Contaminants:
Emission Control:

Site: ***Lakeshore Road East, Helen Street, Port Street, and St. Lawrence Drive***
Lakeshore Road East Mississauga ON

Database: ***CA***

Certificate #: 8104-4QGR6K
Application Year: 00
Issue Date: 11/6/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Fram Builders (Durham) Corp.
Client Address: 135 Queen's Plate Drive
Client City: Toronto
Client Postal Code: M9W 6V1
Project Description: Construction of storm and sanitary sewers on Lakeshore Road East, Helen Street, Port Street, St. Lawrence Drive and on three Easements,
Contaminants:
Emission Control:

Site: ***Hurontario Eglinton Centre, Hurontario Street East***
Part Lot 1, Conc. 1, East of Hurontario Street Mississauga ON

Database: ***CA***

DRAFT

Certificate #: 7746-5A2P7T
Application Year: 02
Issue Date: 5/13/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Hurontario Centre Limited
Client Address: 16 Four Seasons Place, Suite #212
Client City: Toronto
Client Postal Code: M9B 6E5
Project Description: Install Sanitary Sewers on Eglinton Avenue East & West
Contaminants:
Emission Control:

Site:
Part of Lot 12, Conc.4, West of Hurontario St. Mississauga ON

Database: ***CA***

Certificate #: 2144-4HVJL3
Application Year: 00
Issue Date: 3/31/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Cambridge Shopping Centres Limited
Client Address: 95 wellington Street West, Suite 300
Client City: Toronto
Client Postal Code: M5G 2J2
Project Description: Watermains to be constructed in conjunction with Project No. T-99009m.
Contaminants:
Emission Control:

Site:
Part of Lot 12, Conc.4, West of Hurontario St. Mississauga ON

Database: ***CA***

Certificate #: 4445-4HUVVH
Application Year: 00
Issue Date: 3/31/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Cambridge Shopping Centres Limited
Client Address: 95 wellington Street West, Suite 300
Client City: Toronto
Client Postal Code: M5G 2J2
Project Description: Sanitary and storm to be constructed in conjunction with Project No. T- 99009.
Contaminants:
Emission Control:

Site:
PT Lot 10, Concession 4, West of Hurontario Street Mississauga ON

Database: ***CA***

Certificate #: 6370-4UBSJM
Application Year: 01
Issue Date: 3/5/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Windscale Development Corp.
Client Address: 26 Butny Lane
Client City: Toronto
Client Postal Code: M2K 1W6
Project Description: Installation of watermains on Old Creditview Road and Spring Garden Court
Contaminants:
Emission Control:

DRAFT

Site: ***Database:***
PT Lot 10, Concession 4, West of Hurontario Street Mississauga ON ***CA***

Certificate #:	0135-4UBKWL
Application Year:	01
Issue Date:	3/5/01
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Windscale Development Corp.
Client Address:	26 Butny Lane
Client City:	Toronto
Client Postal Code:	M2K 1W6
Project Description:	Installation of storm and sanitary sewers on Old Creditview Road and Spring Garden Court
Contaminants:	
Emission Control:	

Site: ***Database:***
Part of West Half of Lots 11 and 12, Concession 2, West of Hurontario Street Mississauga ON ***CA***

Certificate #:	1324-4XNHQW
Application Year:	01
Issue Date:	6/19/01
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Monarch Construction Limited
Client Address:	2025 Sheppard Avenue East, Suite 1201
Client City:	Toronto
Client Postal Code:	M2J 1V7
Project Description:	Construction of sanitary and storm sewers on Baskerville Run, Shamrock Crescent, Appletree Lane, Irish Moss Road, White Pine Court and the Easement from John Watt Boulevard (Block 113)
Contaminants:	
Emission Control:	

Site: ***Database:***
Lakeshore Road East Mississauga ON ***CA***

Certificate #:	2788-4SGLXJ
Application Year:	00
Issue Date:	12/29/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Corporation of the Regional Municipality of Peel
Client Address:	10 Peel Centre Drive
Client City:	Brampton
Client Postal Code:	L6T 4B9
Project Description:	Sanitary sewers and appurtenances to be constructed in conjunction with Project No. 00-2210 in the City of Mississauga on Lakeshore Road East.
Contaminants:	
Emission Control:	

Site: ***Creditview Country Club South - Phase I*** ***Database:***
Part of Lot 5, Conc. 3, West of Hurontario Street Mississauga ON ***CA***

Certificate #:	3010-4SZR5A
Application Year:	01
Issue Date:	1/15/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval

DRAFT

Client Name: Mattamy (Creditview) Limited
Client Address: 2360 Bristol Circle
Client City: Oakville
Client Postal Code: L6H 6M5
Project Description: This application is for the installation of watermains to serve the Creditview Country Club South, Phase 1, in the City of Mississauga.
Contaminants:
Emission Control:

Site: ***Creditview Country Club South - Phase 2***
Part of Lot 5, Conc. 3, West Hurontario Street Mississauga ON

Database: ***CA***

Certificate #: 7514-4YAPAU
Application Year: 01
Issue Date: 7/11/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Mattamy (Creditview) Limited
Client Address: 2360 Bristol Circle
Client City: Oakville
Client Postal Code: L6H 6M5
Project Description: Extension od existing municipal of watermains in the Creditview Country Club South - Phase 2 to service proposed residential subdivision.
Contaminants:
Emission Control:

Site: ***Creditview Country Club South - Phase I***
Part of Lot 5, Conc. 3, West of Hurontario Street Mississauga ON

Database: ***CA***

Certificate #: 5740-4SZQTU
Application Year: 01
Issue Date: 1/15/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Mattamy (Creditview) Limited
Client Address: 2360 Bristol Circle
Client City: Oakville
Client Postal Code: L6H 6M5
Project Description: This application is for the installation of sanitary and storm sewers to serve Creditview Country Club South - Phase I, in the City of Mississauga.
Contaminants:
Emission Control:

Site: ***Creditview Country Club South - Phase 2***
Part of Lot 5, Conc. 3, West Hurontario Street Mississauga ON

Database: ***CA***

Certificate #: 2832-4YANX8
Application Year: 01
Issue Date: 7/11/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Mattamy (Creditview) Limited
Client Address: 2360 Bristol Circle
Client City: Oakville
Client Postal Code: L6H 6M5
Project Description: Construction and extension of existing of Sanitary and Storm Sewers in the Creditview Country Club South - Phase 2 (residential and subdivision)
Contaminants:
Emission Control:

DRAFT

Site: ***Database:*** ***CA***

Part of Lot 11, Conc. 2, West of Hurontario Street Mississauga ON

Certificate #:	5666-4XDLPT
Application Year:	01
Issue Date:	6/11/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Steelgate Security Products Ltd.
Client Address:	7456 Tranmere Drive
Client City:	Mississauga
Client Postal Code:	L5S 1K4
Project Description:	Construction of watermains on Village Walk.
Contaminants:	
Emission Control:	

Site: ***Database:*** ***CA***

Part of Lot 11, Conc. 2, West of Hurontario Street Mississauga ON

Certificate #:	7705-4XDLJV
Application Year:	01
Issue Date:	6/11/01
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Steelgate Security Products Ltd.
Client Address:	7456 Tranmere Drive
Client City:	Mississauga
Client Postal Code:	L5S 1K4
Project Description:	Construction of sanitay sewers on Village Walk. Construction of storm sewers on Village Walk and Block 34 (Park).
Contaminants:	
Emission Control:	

Site: ***PEEL NON-PROFIT HOUSING CORP.*** ***Database:*** ***CA***

HURONTARIO ST.,PT.LOT 10/C-18 MISSISSAUGA CITY ON

Certificate #:	8-3195-93-
Application Year:	93
Issue Date:	7/7/1993
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	200 KW/250KVA EMERGENCY DIESEL GENERATOR
Contaminants:	Nitrogen Oxides, Stoddard Solvent
Emission Control:	Muffler

Site: ***Database:*** ***CA***

Lot 5, Concession 2 West of Hurontario Street Mississauga ON

Certificate #:	0340-4VBTJT
Application Year:	01
Issue Date:	4/2/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Cantay Holdings Inc.
Client Address:	6205 Airport Road
Client City:	Mississauga
Client Postal Code:	L4V 1E8

DRAFT

Project Description: Construction of watermains
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Lot 5, Concession 2 West of Hurontario Street Mississauga ON

Certificate #: 5427-4VEGLV
Application Year: 01
Issue Date: 4/2/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Cantay Holdings Inc.
Client Address: 6205 Airport Road
Client City: Mississauga
Client Postal Code: L4V 1E8
Project Description: Construction of storm and sanitary sewers
Contaminants:
Emission Control:

Site: ***Ivycrest Estates Inc. Dev. - Meadowvale Village*** ***Database:*** ***CA***
Part of Lot 11, Concession 2, W. of Hurontario St. Mississauga ON

Certificate #: 8578-53TPSG
Application Year: 01
Issue Date: 10/26/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Ivycrest Estates Inc.
Client Address: 71 Sifton Road
Client City: Woodbridge
Client Postal Code: L4L 7Z8
Project Description: Watermain construction
Contaminants:
Emission Control:

Site: ***Ivycrest Estates Inc. Dev. - Meadowvale Village*** ***Database:*** ***CA***
Part of Lot 11, Concession 2, W. of Hurontario St. Mississauga ON

Certificate #: 3720-53TPXJ
Application Year: 01
Issue Date: 10/26/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Ivycrest Estates Inc.
Client Address: 71 Sifton Road
Client City: Woodbridge
Client Postal Code: L4L 7Z8
Project Description: Storm and sanitary sewer construction
Contaminants:
Emission Control:

Site: ***Meadowvale Village Secondary Plan Area*** ***Database:*** ***CA***
W. of Hurontario St., Part Lot 12, Conc. 2 Mississauga ON

Certificate #: 4416-4G3HZX
Application Year: 00
Issue Date: 2/15/00
Approval Type: Municipal & Private sewage

DRAFT

Status: Approved
Application Type: New Certificate of Approval
Client Name: Fieldrun Development Corporation
Client Address: 100 Strada Drive, Unit #1
Client City: Woodbridge
Client Postal Code: L4L 5V7
Project Description: Construction of a stormwater management facility for Phase 3 of the Fieldrun residential subdivision within the Meadowvale Village Secondary Plan Area in the City of Mississauga.
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***

Part of Lot 11, Conc. 2, West of Hurontario Street Mississauga ON

Certificate #: 4121-4MRHQT
Application Year: 00
Issue Date: 8/1/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Derry-Mclaughlin Development Corporation
Client Address: 15 Wertheim Court, Suite 308
Client City: Richmond Hill
Client Postal Code: L4B 3H7
Project Description: Watermain to be constructed in conjunction with File C.A. 'B' 087-095-99M (W5) and in the City of Mississauga on Kaiser Drive from approximately 40m east of Magistrate Terrace to Magistrate Terrace
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***

Part of Lot 11, Conc. 2, West of Hurontario Street Mississauga ON

Certificate #: 4341-4WTJKQ
Application Year: 01
Issue Date: 5/18/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Derry McLaughlin Development Corporation
Client Address: 15 Wertheim Court, Suite 308
Client City: Richmond Hill
Client Postal Code: L4B 3H7
Project Description: Construction of watermains
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***

Part of Lot 11, Conc. 2, West of Hurontario Street Mississauga ON

Certificate #: 1086-4MRHC8
Application Year: 00
Issue Date: 8/1/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Derry-McLaughlin Development Corporation
Client Address: 15 Wertheim Court, Suite 308
Client City: Richmond Hill
Client Postal Code: L4B 3H7
Project Description: Sanitary sewers to be constructed in conjunction with File C.A. 'B' 087-095/99M (W5) and in the City of Mississauga, on Magistrate Terrace and Kaiser Drive. Storm sewers to be constructed in conjunction with File C.A. 'B' 087-095/99M (W5) and in the City of Mississauga, on Magistrate Terrace.
Contaminants:
Emission Control:

DRAFT

Site:
Part of Lot 11, Conc. 2, West of Hurontario Street Mississauga ON

Database:
CA

Certificate #:	4624-4WTJDT
Application Year:	01
Issue Date:	5/18/01
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Derry McLaughlin Development Corporation
Client Address:	15 Wertheim Court, Suite 308
Client City:	Richmond Hill
Client Postal Code:	L4B 3H7
Project Description:	Construction of storm and sanitary sewers
Contaminants:	
Emission Control:	

Site: ***GRAYLIGHT PROPERTIES LTD.***
PT.LOT 3/CON.2, HURONTARIO ST. MISSISSAUGA CITY ON

Database:
CA

Certificate #:	3-1442-95-006
Application Year:	95
Issue Date:	11/10/95
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***MISSISSAUGA CITY***
HURONTARIO ST., HERITAGE WALK MISSISSAUGA CITY ON

Database:
CA

Certificate #:	3-0914-97-
Application Year:	97
Issue Date:	8/18/1997
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***R.M. OF PEEL***
LTS.2&3,RANGE 1/ROSEWOOD AVE. MISSISSAUGA ON

Database:
CA

Certificate #:	7-0145-98-
Application Year:	98
Issue Date:	3/24/1998
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	

DRAFT

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF PEEL***
LTS.2&3/RANGE 1/ROSEWOOD AVE. MISSISSAUGA ON

Database: ***CA***

Certificate #: 3-0240-98-
Application Year: 98
Issue Date: 3/24/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***GOTTARDO PROPERTIES LTD. & GOTTARDO CORP***
HURONTARIO ST. STREET A MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-0417-88-
Application Year: 88
Issue Date: 5/5/1988
Approval Type: Municipal water
Status: Revised
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***TRANS-NORTHERN PIPELINES INC.***
PT.LOT 6/CON.7,E.HURONTARIO ST MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 4-0117-93-
Application Year: 93
Issue Date: 8/24/1994
Approval Type: Industrial wastewater
Status: Approved in 1994
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: SURFACE RUN-OFF SEPARATION SYSTEM
Contaminants:
Emission Control:

Site: ***PETRO-CANADA PRODUCTS-LAKE ONTARIO REFIN***
ZEBRA MUSSEL CONTROL PROGRAM MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 4-0047-90-

DRAFT

Application Year: 90
Issue Date: 6/20/1990
Approval Type: Industrial wastewater
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: ZEBRA MUSSEL CONTROL
Contaminants: Chlorine
Emission Control: Dechlorination

Site: ***JOSEPH GYETVAN***
HURONTARIO ST. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-0850-87-
Application Year: 87
Issue Date: 6/25/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***HUNTINGFIELD CHASE LTD.-PT.LOTS 1&2/C-1***
ST.'A'/HURONTARIO ST.(HWY.#10) MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-1224-91-
Application Year: 91
Issue Date: 10/9/1991
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***THE ANTREX GROUP-PT. LOTS 2 & 3, CONC. 1***
STREET 'A'/HURONTARIO ST. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-0235-91-
Application Year: 91
Issue Date: 3/21/1991
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

DRAFT

Site: ***R.M. OF PEEL***
STAVEBANK RD. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-0935-89-
Application Year: 89
Issue Date: 6/15/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MISSISSAUGA CITY CITY CENTRE PLAZA***
HURONTARIO ST. PH. 1 TO 5 MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-2058-88-
Application Year: 88
Issue Date: 1/20/1989
Approval Type: Municipal water
Status: Approved in 1989
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WHITNEY HOMES***
QUEEN ST. E. STREET A MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-1552-88-
Application Year: 88
Issue Date: 10/3/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MISSISSAUGA CITY***
HIGH STREET, PORT CREDIT MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1102-93-
Application Year: 93
Issue Date: 9/27/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:

DRAFT

Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***E. ESCUBEDO, C. DIPLACIDO & R. LAYFIELD***
HURONTARIO ST./STM-WATER MGT. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-0848-92-
Application Year: 92
Issue Date: 9/17/1992
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***THE ANTREX GROUP-PT. LOTS 2 & 3/CONC. 1***
STREET 'A'/HURONTARIO ST. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-0257-91-
Application Year: 91
Issue Date: 3/21/1991
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MISSISSAUGA CITY***
STAVEBANK RD. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1178-89-
Application Year: 89
Issue Date: 7/5/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WHITNEY HOMES***
QUEEN ST. STREET A MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1810-88-
Application Year: 88

DRAFT

Issue Date: 10/3/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***G.L. BALL CLEARVIEW CREEK CANNELIZATION***
LAKESHORE RD. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1828-88-
Application Year: 88
Issue Date: 9/28/1988
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MISSISSAUGA CITY***
HURONTARIO STREET MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1325-88-
Application Year: 88
Issue Date: 8/3/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***GOTTARDO PROPERTIES LTD. & GOTTARDO CORP***
HURONTARIO ST. STREET A MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-0471-88-
Application Year: 88
Issue Date: 5/5/1988
Approval Type: Municipal sewage
Status: Revised
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

DRAFT

Site: ***R.M. OF PEEL***
ELMWOOD AVENUE MISSISSAUGA CITY ON

Database: ***CA***

Certificate #:	3-0089-86-
Application Year:	86
Issue Date:	3/4/1986
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***MISSISSAUGA CITY***
LAKESHORE RD. TURTLE CREEK MISSISSAUGA CITY ON

Database: ***CA***

Certificate #:	3-1566-87-
Application Year:	87
Issue Date:	9/4/1987
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KNOWASTE TECH. INC.***
HURONTARIO ST.,PT.LOT 11/CON.3 MISSISSAUGA CITY ON

Database: ***CA***

Certificate #:	8-3595-93-
Application Year:	93
Issue Date:	2/11/1994
Approval Type:	Industrial air
Status:	Approved in 1994
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	EXHAUSTS FOR PLASTIC DRIER, STEAM BOILER
Contaminants:	
Emission Control:	

Site: ***The Regional Municipality of Peel***
High Street Park St E & Hurontario Street Mississauga ON L6T 4B9

Database: ***ECA***

Approval No:	0657-4SGM38	***MOE District:***	
Approval Date:	2000-12-29	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Business Name:	The Regional Municipality of Peel		

DRAFT

Address: High Street Park St E & Hurontario Street
Full Address:
Full PDF Link:
PDF Site Location:

Site: ***Fram Builders (Durham) Corp.***
Lakeshore Road East Mississauga ON M9W 6V1

Database: ***ECA***

Approval No: 6288-4QGS2N
Approval Date: 2000-10-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Business Name: Fram Builders (Durham) Corp.
Address: Lakeshore Road East
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***GWL Realty Advisors Inc.***
Part of Lot 11, Concession 1, West of Hurontario Street Mississauga ON L3R 0B8

Database: ***ECA***

Approval No: 4401-6H6MCD
Approval Date: 2005-10-17
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: GWL Realty Advisors Inc.
Address: Part of Lot 11, Concession 1, West of Hurontario Street
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***The Regional Municipality of Peel***
Hurontario Street & Elmwood Ave Mississauga ON L6T 4B9

Database: ***ECA***

Approval No: 1043-4JYMRH
Approval Date: 2000-05-08
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Business Name: The Regional Municipality of Peel
Address: Hurontario Street & Elmwood Ave
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***The Regional Municipality of Peel***
Stavebank Road Mississauga ON L6T 4B9

Database: ***ECA***

Approval No: 9593-63BGUE
Approval Date: 2004-07-29
Status: Approved

MOE District:
City:
Longitude:

DRAFT

Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-Municipal Drinking Water Systems		
Project Type:	Municipal Drinking Water Systems		
Business Name:	The Regional Municipality of Peel		
Address:	Stavebank Road		
Full Address:			
Full PDF Link:			
PDF Site Location:			

Site: ***Windscale Development Corp.***
PT Lot 10, Concession 4, West of Hurontario Street Mississauga ON M2K 1W6

Database: ***ECA***

Approval No:	6370-4UBSJM	***MOE District:***	
Approval Date:	2001-03-05	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Business Name:	Windscale Development Corp.		
Address:	PT Lot 10, Concession 4, West of Hurontario Street		
Full Address:			
Full PDF Link:			
PDF Site Location:			

Site: ***Regional Municipality of Peel***
Lakeshore Rd intersection, Front to Cumberland Dr. Mississauga ON L5G 1E5

Database: ***GEN***

Generator No:	ON5445519	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Feb 2022	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class:	146 L
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	221 L
Waste Class Desc:	Light fuels
Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)

Site: ***TWD ROADS MANAGEMENT INC.***
LOT 6, CONCESSION 1 EAST OF HURONTARIO STREET MISSISSAUGA ON L5M 2B5

Database: ***GEN***

Generator No:	ON2451910	***Status:***	
SIC Code:	8371	***Co Admin:***	
SIC Description:	TRANSPORTATION ADMIN.	***Choice of Contact:***	
Approval Years:	00,01,02,03,04,05,06,07,08	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

DRAFT

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: ***TWD ROADS MANAGEMENT INC.***
LOT 6, CONCESSION 1 EAST OF HURONTARIO STREET MISSISSAUGA ON

Database: ***GEN***

Generator No: ON2451910
SIC Code: 912910
SIC Description: Other Provincial and Territorial Public Administration
Approval Years: 2009
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***PEMBINA RESOURCES***
LOT 6, CONCESSION 1 PORT COLBORNE ON L5M 2B5

Database: ***GEN***

Generator No: ON0138709
SIC Code:
SIC Description:
Approval Years: 02
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Site: ***BELL CANADA***
VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE CENTRAL REG. (SEE SCHEDULE "B") ON

Database: ***GEN***

Generator No: ONR000303
SIC Code: 517110, 517210, 517510
SIC Description: WIRED TELECOMMUNICATIONS CARRIERS, WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE)
Approval Years: 2013
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: ***PIPELINE HIT - 1/2"***

Database:

DRAFT

BLOCK 16, BOXFORD CRESCENT,UNIT 132,MISSISSAUGA,ON,L5M 0X1,CA ON ***PINC***

Incident Id:		***Pipe Material:***	
Incident No:	1633744	***Fuel Category:***	
Incident Reported Dt:	5/4/2015	***Health Impact:***	
Type:	FS-Pipeline Incident	***Environment Impact:***	
Status Code:		***Property Damage:***	
Tank Status:	Pipeline Damage Reason Est	***Service Interrupt:***	
Task No:		***Enforce Policy:***	
Spills Action Centre:		***Public Relation:***	
Fuel Type:		***Pipeline System:***	
Fuel Occurrence Tp:		***PSIG:***	
Date of Occurrence:		***Attribute Category:***	
Occurrence Start Dt:		***Regulator Location:***	
Depth:		***Method Details:***	
Customer Acct Name:	PIPELINE HIT - 1/2"		
Incident Address:	BLOCK 16, BOXFORD CRESCENT,UNIT 132,MISSISSAUGA,ON,L5M 0X1,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

Site: ***Database:***
SPL
Queen St E and Goreway Mississauga ON

Ref No:	2663-AG25ZA	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2016/11/24	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Miscellaneous Communal
Incident Event:	Leak/Break	***Agency Involved:***	
Contaminant Code:	99	***Nearest Watercourse:***	
Contaminant Name:	SILT	***Site Address:***	Queen St E and Goreway
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	Mississauga
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Surface Water	***Northing:***	4845596
MOE Response:	No	***Easting:***	609300
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	Map
MOE Reported Dt:	2016/11/24	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:	Unknown / N/A	***Source Type:***	
Site Name:	Humber flood control reservoir at<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:	10 -100 metres eg. Topographic Map		
Incident Summary:	Watermain break: minor sediment to flood control reservoir		
Contaminant Qty:	0 other - see incident description		

Site: ***PETRO-CANADA*** ***Database:***
SPL
TANK TRUCK (CARGO) MISSISSAUGA CITY ON

Ref No:	51137	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	5/24/1991	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	PIPE/HOSE LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	

DRAFT

Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	21102
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	5/24/1991	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PETRO CANADA - 50 L. OF GAS TO GROUND AT 2125 DUNDAS STREET		
Contaminant Qty:			

Site: ***PETRO-CANADA***
SERVICE STATION MISSISSAUGA CITY ON

Database: ***SPL***

Ref No:	8408	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	8/21/1988	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	PIPE/HOSE LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	21102
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	8/21/1988	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PETROCAN SERVICE CENTRE - UNKNOWN AMOUNT (SMALL) OF GASOLINE TO PAVEMENT.		
Contaminant Qty:			

Site: ***CANADIAN PACIFIC RAILWAYS***
AT THE STREETSVILLE C.P. RAIL YARD ON QUEEN STREET. TRAIN MISSISSAUGA CITY ON

Database: ***SPL***

Ref No:	123180	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	1/30/1996	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	OTHER CONTAINER LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	21102
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	

DRAFT

MOE Response:		***Easting:***	EPS
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	1/30/1996	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	DAMAGE BY MOVING EQUIPMENT	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	C.P. RAIL: 45 L OF DIESELTO RAILBED FROM ENGINE INCOLLISION WITH RAILCAR.		
Contaminant Qty:			

Site: ***Database:*** ***SPL***

PETRO-CANADA SERVICE STATION \ MISSISSAUGA CITY ON

Ref No:	123672	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2/16/1996	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	21102
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2/16/1996	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:		***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:			
Contaminant Qty:			

Site: ***GREEN SPACE SERVICES(SEARS LAW JACK DARLING PARK,LAKESHORE ROAD. TANK TRUCK (CARGO) MISSISSAUGA CITY ON*** ***Database:*** ***SPL***

Ref No:	230431	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	7/2/2002	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	UNKNOWN	***Sector Type:***	
Incident Event:		***Agency Involved:***	WORKS
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	21102
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	WATER	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/2/2002	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	UNKNOWN	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

DRAFT

Incident Summary: GREEN SPACE-30 L KILLEX TOL LOT,REGION RESPONDED.
Contaminant Qty:

Site: ***The Corporation of the City of Mississauga***
RICHARDS MEMORIAL PARK, NEAR LAKESHORE RD.<UNOFFICIAL> Mississauga ON

Database: ***SPL***

Ref No:	2472-5NVTCU	***Discharger Report:***	
Site No:		***Material Group:***	Waste
Incident Dt:	6/26/2003	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Other Plant - Sewage Municipal
Incident Event:		***Agency Involved:***	
Contaminant Code:	44	***Nearest Watercourse:***	
Contaminant Name:	SEWAGE,RAW UNCHLORINATED	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Halton-Peel
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	Central
Environment Impact:	Possible	***Site Municipality:***	Mississauga
Nature of Impact:	Human Health/Safety	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	6/26/2003	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Spill to Land
Incident Reason:		***Source Type:***	

Site Name: RICHARDS MEMORIAL PARK, NEAR LAKESHORE RD.<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Richards Memorial Park-small sewage spill.
Contaminant Qty:

Site: ***Apex Motor Express***
Northbound Hurontario St Mississauga ON

Database: ***SPL***

Ref No:	1741-7YC3UW	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Transport Accident	***Sector Type:***	Transport Truck
Incident Event:		***Agency Involved:***	
Contaminant Code:	13	***Nearest Watercourse:***	
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	Referral to others	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	12/1/2009	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Highway Spills (usually highway accidents)
Incident Reason:		***Source Type:***	

Site Name: Hurontario St and HWY 401<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: APEX Motor Express: diesel to CB, cntd
Contaminant Qty: 200 L

Site: ***Petro-Canada Lubricants Inc.***
Clarkson Refinery Mississauga ON L5J 2Y3

Database: ***SPL***

DRAFT

Ref No:	2822-86QNMF	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Valve / Fitting Leak Or Failure	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	NA
MOE Response:		***Easting:***	NA
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	6/24/2010	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:	Equipment Failure - Malfunction of system components	***Source Type:***	
Site Name:	385 Southdown Road		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Petro Canada Lubricants; leak of chlorinated water from line		
Contaminant Qty:			

Site: ***Database:*** ***SPL***

MVA at Hurontario St just north of 401 <UNOFFICIAL> Mississauga ON

Ref No:	8811-87YKWE	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Transport Accident	***Sector Type:***	Transport Truck
Incident Event:		***Agency Involved:***	
Contaminant Code:	13	***Nearest Watercourse:***	
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	
Nature of Impact:	Soil Contamination; Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	8/3/2010	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Highway Spills (usually highway accidents)
Incident Reason:	Spill	***Source Type:***	
Site Name:	MVA at Hurontario St just north of 401 <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Spill, 450 L, Diesel,Hurontario north of 401, Ajax Logistics		
Contaminant Qty:	450 L		

Site: ***Petro-Canada Lubricants Inc.***
Clarkson Refinery Mississauga ON L5J 2Y3

Database: ***SPL***

Ref No:	8266-8BEHLC	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Unknown	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	

DRAFT

Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Other Impact(s)
Receiving Medium:
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/21/2010
Dt Document Closed:
Incident Reason: Unknown - Reason not determined
Site Name: 385 Southdown Road
Site County/District:
Site Geo Ref Meth:
Incident Summary: Petro-Canada Lubricants: spill of dewaxed oil to property
Contaminant Qty:

Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality:
Site Lot:
Site Conc:
Northing: NA
Easting: NA
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Land Spills
Source Type:

Site: ***Petro-Canada Clarkson Refinery Mississauga ON***

Database: ***SPL***

Ref No: 1288-8C2A4E
Site No:
Incident Dt:
Year:
Incident Cause: Valve / Fitting Leak Or Failure
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Possible
Nature of Impact: Soil Contamination
Receiving Medium:
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 12/11/2010
Dt Document Closed:
Incident Reason: Unknown - Reason not determined
Site Name: 385 Southdown Road
Site County/District:
Site Geo Ref Meth:
Incident Summary: 4L DMDS injection to concrete, cleaning
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address: Clarkson Refinery
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Mississauga
Site Lot:
Site Conc:
Northing: NA
Easting: NA
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Land Spills
Source Type:

Site: ***The Corporation of the City of Mississauga Elmwood Ave - south of lakeshore east and Hwy 10 Mississauga ON***

Database: ***SPL***

Ref No: 2643-8W9KBH
Site No:
Incident Dt: 16-JUL-12
Year:
Incident Cause: Discharge Or Bypass To A Watercourse
Incident Event:
Contaminant Code: 43
Contaminant Name: SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Confirmed
Nature of Impact: Surface Water Pollution
Receiving Medium: Sewage - Municipal/Private and Commercial

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Water Supply
Agency Involved:
Nearest Watercourse:
Site Address: Elmwood Ave - south of lakeshore east and Hwy 10
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Mississauga
Site Lot:
Site Conc:

DRAFT

Receiving Env:		***Northing:***	
MOE Response:	No Field Response	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	16-JUL-12	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:	Other - Reason not otherwise defined	***Source Type:***	
Site Name:	Watermain break <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	RoPeel: watermain break, sediment to L.Ont.		
Contaminant Qty:			

Site: ***Petro-Canada Lubricants Inc.***
Clarkson Refinery Mississauga ON NA

Database: ***SPL***

Ref No:	2275-9ZXUB2	***Discharger Report:***	
Site No:	3804-4K6QE4	***Material Group:***	
Incident Dt:	9/1/2015	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Petroleum Refineries
Incident Event:		***Agency Involved:***	
Contaminant Code:	14	***Nearest Watercourse:***	
Contaminant Name:	LUBRICANT OIL(LUBE OIL)	***Site Address:***	Clarkson Refinery
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	NA
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	Mississauga
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	4817026
MOE Response:	No	***Easting:***	612672
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	NA
MOE Reported Dt:	9/1/2015	***Site Map Datum:***	NA
Dt Document Closed:	11/9/2015	***SAC Action Class:***	Land Spills
Incident Reason:	Operator/Human Error	***Source Type:***	
Site Name:	385 Southdown Road		
Site County/District:			
Site Geo Ref Meth:	NA		
Incident Summary:	~31000L of lubricating oil to train tracks from open valve, contained		
Contaminant Qty:	31000 L		

Site:
under Lakeshore Road Mississauga ON

Database: ***SPL***

Ref No:	8707-9YNM5N	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	7/22/2015	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Municipal Sewage
Incident Event:		***Agency Involved:***	
Contaminant Code:	44	***Nearest Watercourse:***	
Contaminant Name:	SEWAGE,RAW UNCHLORINATED	***Site Address:***	under Lakeshore Road
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	Mississauga
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	No	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/22/2015	***Site Map Datum:***	
Dt Document Closed:	9/17/2015	***SAC Action Class:***	Watercourse Spills
Incident Reason:	Deliberate Act	***Source Type:***	
Site Name:	Cooksville Creek<UNOFFICIAL>		
Site County/District:			

DRAFT

Site Geo Ref Meth:
Incident Summary: RofPeel: sani siphon backup to Cooksville
Contaminant Qty: 0 other - see incident description

Site: ***PETRO-CANADA LUBRICANTS INC.***
MISSISSAUGA ON

Database: ***SRDS***

Company Code: 0000130104
Works ID:
SIC:
SIC1:
SIC1 Desc:
SIC2:
SIC2 Desc:
SIC3:
SIC3 Desc:
Body of Water:
Terminal Stream:
SIC Desc:
Mailing Address:
Corp Address:

Sector:
Region:
District:
UTM Zone:
UTM Easting:
UTM Northing:
UTM Precision:
Minor Basin:
Major Basin:
Report Year: MISA 2020

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 3.8394
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.051577
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 5.933
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 23.334
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.055678
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.005138
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.29743
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 8.6583
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5865.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.0072265
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 1.9637
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5.12

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 19.39
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 7990
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 9.2719
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 8927
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 5.9463
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 6.3971
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 13.26
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 3.608
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 22.937
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 29.625
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 2.7425
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 10.789
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 3.2416
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 3656
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 1.4543
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 12.636
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 3726
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.009382 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2020/12/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.024678 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2020/12/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 2.1992 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2020/12/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.050737 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2020/01/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.070258 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2020/01/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014298 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.014654
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.067733
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.0058224
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.008381
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 22.824
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.070615
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.50486
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 74423
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.069406
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.067754
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.47999
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.013881
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.47644
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.01537
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 74176.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.49411
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.027978
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 64743.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.081941
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 2.8642
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.047166
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 8424.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 12769
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.0084245
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 2.3176
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 19.458
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.014277
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 67854.6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 9.5172
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 19.443
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 1.1172
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.011266
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4.2157
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 6.4714
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 2.108
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE

DRAFT

Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.046729
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.50139
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 67725
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.47408
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.014425
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.072124
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 49.971
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.012813
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.47615
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 68321.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.014366
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 71828.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.076853
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 7.8575
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 3.5056
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 2.8776
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 32.222
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 4.2824
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 70586.9
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.53421
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.06756
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.40848
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.46801
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.013668
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 1.7346
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 6669.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 1.8835
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 2.3716
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 1.2069
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.013403
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.067855
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.072119
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 70257.5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.014026
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.013769
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.60221
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 12.813
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 30.032
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.0069631
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.008447
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.008453
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 13.012
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4.294
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 3.3457
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4.732
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.014123
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.01415
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.070752
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.074423
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.47052
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 15.411
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 23.278
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 6694.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.008927
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.005953
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.003656
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 1.1559
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.61987
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5.591
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 25.033
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 1.8926
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.041531
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.002793
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 26.624
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 30 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2020/06/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 2.9663 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2020/07/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.071829 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2020/07/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2020/07/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.53797 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2020/08/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 76315.1 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.074176
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5.298
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 6.3378
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.037086
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 18.928
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 5822.4
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.004294
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 1.3596
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 11.163
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.038463
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 3.7855
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.036693
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 3608
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.041624
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 1.8735
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5591
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 2.5817
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.057029
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 8221
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.0071833
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 8447
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 5137
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 2.0028
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 8.276
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 7.194
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 5.2
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.050358
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5138
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 1.7189
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.060298
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 6963.1
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4835
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 67013.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 60920.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.42644
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 9839
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.009839
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 3.8372
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4.127
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5.639
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2020/12/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.060676 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2020/01/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014298 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2020/12/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014424 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2020/12/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.012184 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2020/12/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.005137
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 1.0359
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4.8366
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 25.68
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 1.1561
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 9.7653
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4.865
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.037723
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4.835
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 9013
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 2.767
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.030499
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 2.4774
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 2.3111
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 13.28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.50044
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.014326
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.48648
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.013899
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.014326
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.067726
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.49094
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.013545
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 68021.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5953
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 2.4605
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.051653
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.94452
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 1.2066
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 18.918
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 9085.1
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.0090851
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.068021
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 70751.5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 67217.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.52096
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.014885
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.013881
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.013551
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 12.636
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 3.7943
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.0066696
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.004357
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 13.286
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 4127
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.054572
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.037835
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 25.498
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 7172.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 1.5338
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 24.921
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 16.614
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.014654
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 9.9398
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 24.942
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 2.1131
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 7.5069
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 19.4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.49278
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.068063
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.014366
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.013613
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.014118
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.51923
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.014118
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.014096
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 36.052
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 24.12
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 6.257
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 6471.4
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5.1209
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 2.5479
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.068103
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.51289
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.4918
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.014052
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.013899
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.47413
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS

DRAFT

Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 1.7598
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 5.389
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.052871
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.073738
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.037556
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 66858.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.014277
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 31.855
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 18.497
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 5.0207 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2020/02/29 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2020/02/29 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 27.407 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2020/11/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.004127 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2020/11/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2020/11/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 8.0268 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 11287
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 6.2648
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.059486
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 27.039
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 72.104
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 2.534
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.063091
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 15.532
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.013547
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.013769
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.070134
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.48194
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 70615.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.014123
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.014425
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.01415
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.008221
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.068321
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.47428
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 20.326
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 17.816
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4294
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 6.0064
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 1.0736
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.071383
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.49968
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.014424
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 72118.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.060921
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 1.6359
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.055003
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.057932
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.004865
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 36.67
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 71491.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL

DRAFT

Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.071492
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.07327
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 71628.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.013545
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 68847.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.0066945
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.63051
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 25.981
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.012769
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 2.4919
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 19.266
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 2793
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.015263
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 70482.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 73737.5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.070483
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.033614
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 14.814
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 9.155
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 7.8049
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 33.69
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 7.5044
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.043686
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 16.327
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 70133.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.014026
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.014885
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.013443
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.067218
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.22008
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 17.626
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 14.672
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 7.4175
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 6183.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.0063649
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.082242
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.044016
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 7183.3
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 10.183
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.013372
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.12867
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.4532
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.013876
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 69381.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.46909

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.50483
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.013571
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 8381
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4.802
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 11.412
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 2.449
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.079958
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN

DRAFT

Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4357
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4.357
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4.357
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 69405.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 67753.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.070587
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 2.6184
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.0064714
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 2.2168
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 9.677
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 3.3242
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.013202
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.012949
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.4784
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.013403
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 71382.5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.069382
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104

Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.013571
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.003608
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 2.3934
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.043799
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.038829
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 9677
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 10.81
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.039473
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 76852.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.5028
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.014835
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.076315
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.014747
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.013202
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 66010.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 2.1635
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 2.989
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 12.081
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 7.4407
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 3.726
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.054964
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 29.187
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 20.172
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 0.004835
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 21.551
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.013547
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 69496.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 67733.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.071628
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL

DRAFT

Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.068848
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.013605
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 72123
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 3.3434
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.0375
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 2.793
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 8453
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 3.656
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 6.4484
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.041405
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.49431
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/04/30
Regulation: MISA COMPLIANCE
Value: 0.013605
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.49526
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/05/31
Regulation: MISA COMPLIANCE
Value: 0.013443
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.013664
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.013664
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.013551
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.01537
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.013613
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 68063.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 2.0501
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 3.2599
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 1.42
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 5.547
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 2.1633
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.009677
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 0.31983
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/06/30
Regulation: MISA COMPLIANCE
Value: 39.356
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.014052
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 0.069497
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.020889
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.013668
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.064744
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.013372
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 0.012949
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.48567
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.013876
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.47498
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.06601
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 8.614
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5.138
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.089691
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 0.035966
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/02/29
Regulation: MISA COMPLIANCE
Value: 32.386
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 25.126
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 0.005591
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 7.344
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/07/31
Regulation: MISA COMPLIANCE
Value: 7.5933
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 5.946
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 37.272
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 18.237
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.003726
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 3.6588
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 73270.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 12813
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/01/31
Regulation: MISA COMPLIANCE
Value: 5.138
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.51616
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2020/09/30
Regulation: MISA COMPLIANCE
Value: 0.048596
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/10/31
Regulation: MISA COMPLIANCE
Value: 68341.9
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 0.067014
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2020/12/31
Regulation: MISA COMPLIANCE
Value: 0.012184
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 4865
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 19.713
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 3.9077
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 2.8255
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2020/03/31
Regulation: MISA COMPLIANCE
Value: 0.045358
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS NITROGEN
Sample Date:	2020/04/30	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	AMMONIUM+AMMONIA, TOTAL FILTER.REAC		

Site: ***PETRO-CANADA LUBRICANTS INC.***
MISSISSAUGA ON

Database: ***SRDS***

Company Code:	0000130104	***Sector:***	
Works ID:		***Region:***	
SIC:		***District:***	
SIC1:		***UTM Zone:***	
SIC1 Desc:		***UTM Easting:***	
SIC2:		***UTM Northing:***	
SIC2 Desc:		***UTM Precision:***	
SIC3:		***Minor Basin:***	
SIC3 Desc:		***Major Basin:***	
Body of Water:		***Report Year:***	MISA 2019
Terminal Stream:			
SIC Desc:			
Mailing Address:			
Corp Address:			

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS NITROGEN
Sample Date:	2019/11/30	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	AMMONIUM+AMMONIA, TOTAL FILTER.REAC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS NITROGEN
Sample Date:	2019/11/30	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	AMMONIUM+AMMONIA, TOTAL FILTER.REAC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS NITROGEN
Sample Date:	2019/11/30	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:			
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	AMMONIUM+AMMONIA, TOTAL FILTER.REAC		

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 24.388
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 5.912
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 27.945
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 5.2511
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.012259
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 4.129
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.044975
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 15.786
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 3.698
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.014524
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.01238
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 12.858
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.0065337
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.008604
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 97236.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 13
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 8313.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.005595
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.014614
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 73068.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.07473
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 31.786
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 7520.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 7.8034
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 5.4028
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.004324
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS

DRAFT

Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 1.54
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4.324
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.014946
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 11.503
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 28.717
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.0075206
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 1.3774
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.0142
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 23.771
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.0082176
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.012257
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 1.2455
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4.776
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 7580.5 ***Component Type:*** AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.004961 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 9.453 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 3.341
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 2.8181
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.048391
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.070488
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 1.6498
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 23.3
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 3.0908
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.055995
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 2.5154
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 11.996
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4.789
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 69705.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 5.138
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.49448
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 45.806
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 2.2211
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 10012
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 25.376
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 7.6186
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.0090098
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 25.301
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.002039
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 37.455
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 18.292
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 4.198
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.013596
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.075278
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 8096.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 3484
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.014657
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.014304
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.024388
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.013937
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 29.684
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 12259
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 4129
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL

DRAFT

Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.004129
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 11.523
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.50684
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 8217.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 20.56
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 5.9145
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.072405
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.013937
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.24731
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 27.846
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 20.522
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 1.6785
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.69458
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 15.786
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.048717
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.054327
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 64679
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.070319
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.014064
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.9286
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.41022
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 11036
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 4961
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.069632
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.013926
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4789
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 2.5375
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.08715
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.035525
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.014872
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 74359.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.003331
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.92902
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 19.577
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.046968
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.014409
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2019/08/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.072042	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2019/08/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.55402	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS NITROGEN
Sample Date:	2019/08/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	AMMONIUM+AMMONIA, TOTAL FILTER.REAC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS NITROGEN
Sample Date:	2019/08/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	AMMONIUM+AMMONIA, TOTAL FILTER.REAC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS CARBON
Sample Date:	2019/08/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	28.47	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	CARBON, DISSOLVED ORGANIC		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.012753
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 12
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 13.98
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 3463
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 2.9097
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 6
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 69683.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.003698
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 9.5905
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 7.08
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS

DRAFT

Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 2.105
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 6.425
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 8.8065
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.012935
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 29.915
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 12380
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 6.837
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.074723
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.54083
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.014945
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.015453
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.05159
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.0090098
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.073376
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/01/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 6.19 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2019/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2019/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 17.479 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 2039 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 70830.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 75277.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.49581
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.015056
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.013596
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.50697
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.50062
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.014657
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.014304
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 5.64
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.052416
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 72405.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.0075915
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.65535
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 8.2123
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 12.259
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 2.7612
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.036834
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 70319.2
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 25.297
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.497
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.072624
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 22.564
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.047859
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.013609
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.071168
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.47631
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 37.785
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 47.25
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 5.24
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 6.7344
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.054298
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL

DRAFT

Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.071
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 12257
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4.7358
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.014524
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.069684
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.061828
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 3698
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.49223
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.50837
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 3.1901 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 71168.1 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.49818 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.011036 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.004776
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 68044.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.069509
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 33.198
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 73748.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 69632.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.49849
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 76.335
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 72624.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.064679
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4776
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.0079654
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 16.084
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 5.0262
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.014233
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 69508.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.48656
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.013902
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.4873
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2019/05/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	10.664	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	RESIDUE,PART LOSS ON IGNIT.		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2019/05/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	5	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:			
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	SOLVENT EXTRACTABLES		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2019/06/30	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.01475	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2019/06/30	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.013926	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2019/06/30	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.48742	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 15.274
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 4.9148
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 71212.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.51625
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.01475
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 14.107
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 60.5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4.8634
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 6.7178
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.0734
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.069705
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.12118
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON

DRAFT

Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 6.8357
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.050985
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 44.769
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 1.0071
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 33.84
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.014946
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.50283
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.014367
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 24.576
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 7.568
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.013609
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.0075805 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/06/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2019/06/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.073749 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2019/06/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/06/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 185.94
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.0098054
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.004789
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.07436
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.52052
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.57717
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.014872
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.016491
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.013941
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.0093215
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.013183
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 3.8346
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 45.675
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.016491
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.082452
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.48794
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 37.422
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 6533.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 8604
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 14
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 5595
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.0083136
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 24.777
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 7.7944
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.059662
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.046774
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.071212
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 0.014242
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 9805.4
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 23.748
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.013941
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 63.55
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 7.2391
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.01583
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.019448
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 2.0659
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 2.8343
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 3.672
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 2.4602
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.059535
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 79145.5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 25.12
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 3.1939
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 95.325
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 0.025704
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 72041.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.08093
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.097237
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.50429
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.014097
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 20.522
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.014945
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 74722.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.077262 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2019/01/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.07064 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2019/01/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2019/07/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 13 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/07/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 3331 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/07/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 10.073 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 3.331
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 5.1897
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.01583
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.019448
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.014409
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.68066
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 21.44
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 12753
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 4.0399
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 4.3218
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 10.562
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 33.036
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.5137
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 5797.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 77261.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.086954
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 13
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.014677
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.015453
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.013284
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.31535
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.001284
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 3.463
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 7.7444
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.51363
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.83033
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 11.241
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.09146
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 18.954
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 7.185
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 67981.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 6.913
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 8.8465
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.014337
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 71686
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 73384.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.071686
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.014367
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 71834
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.071834
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.51148
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 2.8758
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4324
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 1.7289
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 12
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0.059061
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.014097 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/09/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 70487.6 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2019/09/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 13 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2019/09/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.00737 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2019/09/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.003463 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/09/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 8.1882 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.014128
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.014128
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.52306
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 6.3891
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.014675
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.0068845
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 8.289
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.052042
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.04333
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 2.4145
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 4.3195
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 2.4141
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 1.6424
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.072424
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.003484
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 3.8324
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 70999.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.014614
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 73281.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.018998
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 1.0797
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 6.5032
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.5018
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 17.148
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 1.7474
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 73376.1
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.066419
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.04505
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.46494
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.014675
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 12.095
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 13
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 13
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.041763
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE

DRAFT

Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.035966
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 13
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 66419
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 27.802
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.010012
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.4573
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 33.185
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 6537.3
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 2.039
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.067981
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.52694
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.014166
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 38.798
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.059304
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 72423.5 ***Component Type:*** AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2019/11/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.51297 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/11/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014485 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2019/02/28 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.0084354 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2019/02/28 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.63172 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/02/28 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 15.485 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4.0682
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 31.817
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 25.998
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 6884.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.0067091
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.014166
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.07083
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 14.284
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 1.8089
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.030149
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.071517
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 26.966
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.087395
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.014485
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 12.873
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.077595
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.073069
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 10421
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.52311
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 26.214
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.010421
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 17.532
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.058184
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 0.052976
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 42.907
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 7591.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 8.0762
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 14.802
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 3.3859
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.085813
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.48778
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.014481
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 3.5978
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.014064
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.012935
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.45276
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 33.776
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 7965.4
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 1.3615
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 8.5803
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/04/30
Regulation: MISA COMPLIANCE
Value: 0.056294
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.013902
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.068045
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 0.014233
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/05/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 1.4652 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2019/05/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.071596 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/06/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014242 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2019/06/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 24.868 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2019/06/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 13183 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 1.1926
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 82451.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 25.709
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 13.219
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 14
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/07/31
Regulation: MISA COMPLIANCE
Value: 14
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 2.3277
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/08/31
Regulation: MISA COMPLIANCE
Value: 5.595
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.014677
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.073385
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.49341
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.014337
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 7370
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 0.0057972
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/09/30
Regulation: MISA COMPLIANCE
Value: 1.433
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 70639.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2019/09/30	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	12.43	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	RESIDUE,PART LOSS ON IGNIT.		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2019/10/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	45049.2	***Component Type:***	MINIMUM
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2019/10/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.013284	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	TOLUENE C7H8		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2019/01/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	1284	***Component Type:***	MINIMUM
Unit of Measure:	M3/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHOSPHORUS
Sample Date:	2019/01/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	1.5416	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHOSPHORUS,UNFILTERED TOTAL		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 18.524
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 1.284
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/01/31
Regulation: MISA COMPLIANCE
Value: 0.061866
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 5
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 12763
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 0.012763
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 1.15
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 4.307
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/10/31
Regulation: MISA COMPLIANCE
Value: 6.3674
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/12/31
Regulation: MISA COMPLIANCE
Value: 74729.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.015056
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.47587
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 11202
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 71516.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/11/30
Regulation: MISA COMPLIANCE
Value: 0.073282
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 0.21601
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2019/02/28
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2019/03/31
Regulation: MISA COMPLIANCE
Value: 0.0142
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2019/03/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.014481	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

Site: ***PETRO-CANADA LUBRICANTS INC. MISSISSAUGA ON***

Database: ***SRDS***

Company Code:	0000130104	***Sector:***	
Works ID:		***Region:***	
SIC:		***District:***	
SIC1:		***UTM Zone:***	
SIC1 Desc:		***UTM Easting:***	
SIC2:		***UTM Northing:***	
SIC2 Desc:		***UTM Precision:***	
SIC3:		***Minor Basin:***	
SIC3 Desc:		***Major Basin:***	
Body of Water:		***Report Year:***	MISA 2018
Terminal Stream:			
SIC Desc:			
Mailing Address:			
Corp Address:			

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2018/10/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.001915	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - O.T.C.W.		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2018/10/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	21225.3	***Component Type:***	AVERAGE
Unit of Measure:	M3/D		
Control Point Name:	PLANT - O.T.C.W.		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2018/10/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.050937	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.0095749
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 31.164
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.0065707
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.009418
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 8.108
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.0085846
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 1.9587
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.042812
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.014621
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.015178
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 66434.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 31.083
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 23.898
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 2899
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.002899
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.012753
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 1.3
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 6.473
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 9.4633
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.055696
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.072672
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 40.731
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 4.432
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5.8433
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.054887
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.943
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.014716
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.32074
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 9.4265
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5.27
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.01499
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 32.683
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 8006.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.0080062
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 39.001
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 74378.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.52065
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 7497.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 3502
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 1.4124
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 2.5086
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 6.0614
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 23.322
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.046939
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 8593
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 3490
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.040269
Unit of Measure: KG/D

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 12.7
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 3.7982
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.0042451
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.54207
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 1.2749
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4.815
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.014466
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.5063
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 23.38
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 18.917
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 6375
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.008593
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.070228
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.012408
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 15.817
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5.43
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 6.9399
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 67088.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.015397
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.18607
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 23.088

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.015255
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 3
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 37.541
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 19.435
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 11.195
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.063075
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 74587.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 44.901
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON

DRAFT

Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 20.376
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 9937
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.80096
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 31.001
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 93.39
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 6.0741
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 7.8176
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4.5285
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.045465
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.032298
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.53116
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.52464
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.012745
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4245
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 2.4621
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.046032
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.072328
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 29.078
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 14.014
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 69.804
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 4.758
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 75551.6
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.015111
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.01492
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 32.01
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 78501.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.077438
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.015701
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.015315
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.001175
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.059311
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.015577
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.00349
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 10998
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.0986
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4.4647
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.073105
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 8313.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 29.872
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5.7594
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.015176
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.54219
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 3
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 3
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 62.981
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.073918
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.048587
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.014808
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 1.5781
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 2.594
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 5.025
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.014917
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.014765
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 15.83
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 76.128
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 5.2534
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 13.776
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.014534
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 1.1027
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.62531
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 15.376
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.089839
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.55594
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 31.097
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 37.748
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 6.856
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 4.4083
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.033607
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 3
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.077888
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 3
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 11194.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 2.569
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 1.372
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.015348
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 76741.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.014808
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.013995
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.011634
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.004758
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.081438
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.075552
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.015273
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 54.361
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 12745
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 1.7318
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 6.7
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.077462
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 25.434
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 91.845
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 8.603
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 36.996
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.060221
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 73823.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.073824
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 24.22
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 3.281
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 5.844
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 3.694
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.015488
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 77437.9
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 76570.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.54951
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.015488
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 1.4331
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 24.052
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 70228
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.52022
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.015884
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 12408
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.002487
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 1.142
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 9.6782
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.014045
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.014534
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 9805
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 57.799
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 38.755
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 10.183
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 50936.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.536
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 1175
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.015255
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 77887.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 74317.5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 79419.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.076401
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.014863
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.014045
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.0080625
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.010187
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.067088
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.013418
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.015315
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 14.403
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.011544
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.91438
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 1.7285
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.20185
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 8.473
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 3
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 2.1991
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 10.56
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 16.574
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 6.941
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 17.563
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 8.223
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.013995
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 69977.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.074043
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 81.438
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 3.7145
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.029715
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 69642.5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 26.111
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.056879
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 9574.9
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2018/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.68016 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 14.472 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/02/28 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 3 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/02/28 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 6.941 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2018/03/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5.482
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 8.1948
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.013287
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.0083136
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 1.7005
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 4.5216
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.049455
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.01425
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 6.7212
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.54521
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 17563
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.011195
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 1.592
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.015273
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 74599.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 2487
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.042329
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.52212
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.51677
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.015322
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 27.238
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 8584.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 1464
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHENOL
Sample Date:	2018/07/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.012855	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2018/01/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.078502	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - O.T.C.W.		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS NITROGEN
Sample Date:	2018/01/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	5	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:			
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	AMMONIUM+AMMONIA, TOTAL FILTER.REAC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2018/01/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4.801	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	RESIDUE, PARTICULATE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2018/01/31	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	1.175	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	RESIDUE,PART LOSS ON IGNIT.		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.014968
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.076276
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.074841
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.4875
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.013928
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 2.0763
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 7.0046
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 7.308
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 1.9204
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 76276.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 3
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.53393
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.006941
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 4.5718
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 3
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 25.171
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 45.373
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 1.2625
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 22.099
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.014863
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.015884
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 73105
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 75891.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.075891
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.51174
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.25716 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/08/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 12753 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/08/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2018/08/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 2.0475 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/02/28 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014968 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2018/02/28 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.017563
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.11602
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.069978
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.5183
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.015348
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.074599
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.52219
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 9.82
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 2.487
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 91.936
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 76609.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 34.326
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 12855
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.001464
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 6.116
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 7.1929
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.055652
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.071248
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 24.243
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.009805
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.003502
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 9.257
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.064799
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.051884
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.35655
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.045413
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.014917
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.014765
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.074587

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.53627
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.049959
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 76364
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.076364
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.52886
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE

DRAFT

Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.067753
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.03871
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.015491
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.075881
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.076609
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 1.3088
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 57.344
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 2.4435
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.010108
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.076987
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.53891
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 11.569
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 15.375
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 9.106
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 19.026
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5.1299
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 0.056507
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.01499
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 75880.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.066435
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.53124
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.46504
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.014621
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.015178
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 1.2858
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.005595
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 6.4121
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.0042451
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 9418
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 1.1997
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 76987.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.050541
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 7660.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.009937
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 38.205
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 1.4517
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 20.1
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 73578.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.069642
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.014716
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.83737
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.015701
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 41.792
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.0099562
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 7.9116
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.076986
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.074379
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.5087
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.0074976
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.14425
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 77456.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.077457
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.074948
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.015176
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 3775
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 2.2756
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 74043
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.076742
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.53719
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.48984
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/03/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 11634 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2018/03/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 2.6409 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2018/03/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.64656 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/03/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5.7407 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2018/09/30 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.49873 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.014876
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.01425
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.71896
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.010187
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 72327.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.073579
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.51505
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 8.0598
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 13.842
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.001915
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.004207
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 0.9744
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Value: 14.024
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.013418
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 50540.5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.46962
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 31.934
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/05/31

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.4916
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 3.6537
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.035035
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.015111
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.53455
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 10.773
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 41.155
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 5.4423
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 14.912
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4.4178
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 3.7553
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.088494
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 50.904
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 6998.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.55539
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 16.83
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 6.047
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.060685
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 3.775
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.0469
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE

DRAFT

Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 0.015322
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 1.5605
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/07/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0.013287
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 35.272
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/08/31
Regulation: MISA COMPLIANCE
Value: 5595
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0.014876
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 72671.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 71247.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 29.584
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/09/30
Regulation: MISA COMPLIANCE
Value: 3.502
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/10/31
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.021225 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 6570.7 ***Component Type:*** AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4207 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2018/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4.913 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2018/10/31 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.03801 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.015397
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.35378
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.010108
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.74429
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.0076607
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.004245
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 5.486
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/11/30
Regulation: MISA COMPLIANCE
Value: 0.059885
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.013928
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.014466
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 0.006375
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/12/31
Regulation: MISA COMPLIANCE
Value: 5.844
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 74948.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.015491
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 0.003775
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 40.458
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/06/30
Regulation: MISA COMPLIANCE
Value: 120.22
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/05/31

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 8062.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.076571
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.28662
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 33.132
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 6452.1
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 11544
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.0064521
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/01/31
Regulation: MISA COMPLIANCE
Value: 0.047992
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 74841.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.52389
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 0.015577
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 6941
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 3
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 28
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 11.768
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/02/28
Regulation: MISA COMPLIANCE
Value: 3
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 6519.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 4758
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 0.0065192
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 8.5893
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/03/31
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0.01492
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN

DRAFT

Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2018/04/30
Regulation: MISA COMPLIANCE
Value: 21.769
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

Site: ***PETRO-CANADA LUBRICANTS INC. MISSISSAUGA ON***

Database: ***SRDS***

Company Code: 0000130104
Works ID:
SIC:
SIC1:
SIC1 Desc:
SIC2:
SIC2 Desc:
SIC3:
SIC3 Desc:
Body of Water:
Terminal Stream:
SIC Desc:
Mailing Address:
Corp Address:
Sector:
Region:
District:
UTM Zone:
UTM Easting:
UTM Northing:
UTM Precision:
Minor Basin:
Major Basin:
Report Year: 2014

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.050652
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 74240.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.013949
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 26.943
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 3.2276
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.85637
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 70564.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 72792.2
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 1.6967
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 2.3833
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 6.9333
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4.1502
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 71363.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 69745.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 3.869
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 5.308
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 2.436
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.014559
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/11	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS CARBON
Sample Date:	2014/09	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	32.319	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	CARBON, DISSOLVED ORGANIC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHENOL
Sample Date:	2014/09	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.005261	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2014/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.47227	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.02055	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	TOLUENE C7H8		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.013395
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 4709
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.011476
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.014012
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.014177
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.070059
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.06948
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.014688
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 73441
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.066972
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.013672
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 11890
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS

DRAFT

Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 2.1112
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 24.23
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.005
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5.8992
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5.7276
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 4.724
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 3.976
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2014/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014862 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/10 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 7.3764 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 6.3088 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 12.266 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.015295
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 3.328
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.041294
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.013657
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.013298
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 68081.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.066491
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 40.236
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 73862.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 6.63
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.085274
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.014421
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.48339
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 6405.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 2436
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 5.942
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 5.427
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.014273
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.48822
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.014273
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 14.528
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 2.9387
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 10.42
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.020596
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 6.4055
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 7.1732
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 3.792
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.070564
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.0074805
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.013672
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 69479.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 68125
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 6688
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.015722
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 17.68
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL

DRAFT

Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 9243
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 1951
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 1.8685
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 7.957
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 1.6361
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.64951
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 2.0943
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 8844
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.52018
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.014279
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.48453
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 4.8538
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2014/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 1.6554 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/01 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014534 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/01 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 66490.8 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2014/01 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.068081 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.014534
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 3.1133
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 50.13
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.014081
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.014108
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.076873
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.070541
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.073862
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 65.783
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 9414.9
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 7.0656
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.014562
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 72809.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 69056.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.075393
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.52775
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.0138
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.011044
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.069002
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 4.9955
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 2.3174
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.041594
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 3.5974
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.044968
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.013949
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.074241
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 6.918
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 3.4102
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.061208
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 1.115
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.013852

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 18.63
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 5261
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 21.394
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 11476
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 7616
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.043589
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN

DRAFT

Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 19.084
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 6.992
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.47687
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.013956
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.014097
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.014279
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.068359
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 24.813
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.008694
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.01189
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 2.7199
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 8.9334 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 70405.3 ***Component Type:*** AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2014/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2014/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.34754
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 2.8125
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 6.688
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4.3404
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4.6705
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.0076068
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.93946
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.98996
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 6.3152
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 3.0269
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 2185
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.53811
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.49379
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 8.407
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.49977
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.007367
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.005427
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.013616
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 4.709
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.064246
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 7.616
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 35.885
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 74310.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 12182
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.012182
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.005845
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 9.4149
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.013777
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.013811
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.072809
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 7450.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 3869
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.003869
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.5971
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.49284
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 75124.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 7.5646
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.051581
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.059269
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.05522
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.52587
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 5.261
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.069746
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.014848
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 8.744
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.074392
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 23.391
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 8.316
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.16702
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 6933.3
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.016574 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2014/02 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.48922 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2014/02 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014128 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2014/01 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.007616 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2014/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.070881 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.49042
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.014398
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.013896
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 1.6255
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 69780.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.46881
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 8694
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 1.7298
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 9.725
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 7.413
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 172.14
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.060543
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 21.822
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 30.481
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 6710.9
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 5000
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 2.7452
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 2.2607
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.070484
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 31.032
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.0066687
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHENOL
Sample Date:	2014/07	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	31	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHOSPHORUS
Sample Date:	2014/07	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.59115	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHOSPHORUS,UNFILTERED TOTAL		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/07	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	5	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	RESIDUE, PARTICULATE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS CARBON
Sample Date:	2014/12	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	20.699	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	CARBON, DISSOLVED ORGANIC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2014/11	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.009654
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 8466
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 4.5057
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 6462.9
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 5.462
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.85215
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.014097
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 1.0926
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.013843
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 10276
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 1.1562
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.46544
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.12924
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 10.55
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 8.1005
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.080332
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.064898
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.25959
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 70541.2 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/02 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5.845 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 75392.6 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2014/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.014562
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.014559
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 9306.9
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.0093069
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.029176
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.48847
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 14.596
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 14.844
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 68881.7
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.055304
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 9729
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.0067109
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.009729
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 70484.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.044793
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.001951
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.069258
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.014113
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 7.121
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 8.467
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 9.729
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 14.309
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 3976
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.003976
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 11.21
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.040093
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.008844
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.54844
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 2.185
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 4.792
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.044161
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.069218
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 7367
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 5427
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.50867
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.038234
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.066973
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.058485
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 69887.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 67466
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.069888
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 47.94
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 12.182
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.015078
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.069056
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 3.9251
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 8923
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.008923
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.99682
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.48218
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 55219.5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2014/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.041755 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2014/10 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.075125 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/10 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.015025 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 7.236 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2014/10 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.06062 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.014848
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 21.824
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 7.7238
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 8.923
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 11.168
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 3.4882
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.072792
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.039785
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.013766
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.013896
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.49617
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.054579
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.013956
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.013625
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.068125
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.070638
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.47851
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.014128
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.006688
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 72105.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.051086
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 2.4289
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 71394.5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.071394
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 20.274
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5.4628
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 6668.7
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 1.951
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 6.399
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.004709
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 6.984
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.048888
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.033068
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 2.185
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL

DRAFT

Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.010276
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 2.4554
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.072668
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 3.763
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.051635
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.59066
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 24.132
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 22.147
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.015375
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.013298
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 30.498
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 1.8759
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 2.2016
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 9.8766
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 12.182
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 2.5857
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.069136
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.50966
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.068882
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 7.3688
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.48301
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.38653
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.011044
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 8.287
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 6.424
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4.8893
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.048426
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.004168
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 0.7169
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 69257.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2014/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.067466	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2014/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2014/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.51704	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS CARBON
Sample Date:	2014/10	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	23.946	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	CARBON, DISSOLVED ORGANIC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS CARBON
Sample Date:	2014/10	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	5	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	CARBON, DISSOLVED ORGANIC		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 9654
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 70059.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.48636
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.016107
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 1.5817
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 4.9241
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.073441
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.51409
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.014688
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 70638.5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 66972.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.49447
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.013395
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 37.913
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 55.604
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.072105
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 2.7573
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.059269
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.069508
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.009243
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 3.9409
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 3.0306 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2014/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.0061344 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2014/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.008466 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2014/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 1.4714 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2014/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.0064629 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 1.2472
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.014108
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 9.178
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 6.9189
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.058849
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.49339
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 22.858
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 31.328
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 14.855
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 72667
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.47657
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 11.457
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 3.5482
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2014/09	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.034384	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.095118	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/04	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	5845	***Component Type:***	MINIMUM
Unit of Measure:	M3/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHOSPHORUS
Sample Date:	2014/04	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	1.1883	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHOSPHORUS,UNFILTERED TOTAL		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHOSPHORUS
Sample Date:	2014/04	***Frequency:***	MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.015078
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 0.013811
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 8316
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.50474
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 0.04641
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/10	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.015025	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2014/10	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	5	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2014/10	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	5	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/10	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.0138	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	TOLUENE C7H8		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/11	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.014113	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 1.0856
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 8.662
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.058009
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.071364
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.49955
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 0.51969
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 7.4502
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.054066
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 24.131
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 8662
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 68359.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 0.3031
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 19.661
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 7606.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN

DRAFT

Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/04
Regulation: MISA COMPLIANCE
Value: 70880.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 31.947
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2014/07	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.069781	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2014/07	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	5	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/07	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.013625	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	TOLUENE C7H8		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/03	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2014/03	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 30.724
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.014406
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.013777
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/05
Regulation: MISA COMPLIANCE
Value: 0.070405
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 0.013843
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 69218.4 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2014/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.049847 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5.5036 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2014/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 25.841 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2014/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2014/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.49395
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.50955
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.4848
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 6.7109
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/12
Regulation: MISA COMPLIANCE
Value: 6134.4
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 0.002185
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 1.7637
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.015375
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/03
Regulation: MISA COMPLIANCE
Value: 3.2484
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 7.1068
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 20.373
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 1.951
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/07
Regulation: MISA COMPLIANCE
Value: 0.055699
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 0.014862
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 0.013616
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 127.31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 1.8548
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 8.438
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 4.6933
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 3.2585
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 76873.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2014/09	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.074311	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.013766	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHENOL
Sample Date:	2014/04	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	30	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHENOL
Sample Date:	2014/04	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.0094149	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/04	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4.6535	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	SOLVENT EXTRACTABLES		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.3014
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.0074502
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/11
Regulation: MISA COMPLIANCE
Value: 0.013852
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/09
Regulation: MISA COMPLIANCE
Value: 4
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/01
Regulation: MISA COMPLIANCE
Value: 1.4703
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/02
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2014/10
Regulation: MISA COMPLIANCE
Value: 69001.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 8.467
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2014/08
Regulation: MISA COMPLIANCE
Value: 12.214
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2014/08	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	SOLVENT EXTRACTABLES		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS SULPHIDE
Sample Date:	2014/08	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

Site: ***PETRO-CANADA LUBRICANTS INC. MISSISSAUGA ON***

Database: ***SRDS***

Company Code:	0000130104	***Sector:***	
Works ID:		***Region:***	
SIC:		***District:***	
SIC1:		***UTM Zone:***	
SIC1 Desc:		***UTM Easting:***	
SIC2:		***UTM Northing:***	
SIC2 Desc:		***UTM Precision:***	
SIC3:		***Minor Basin:***	
SIC3 Desc:		***Major Basin:***	
Body of Water:		***Report Year:***	2016
Terminal Stream:			
SIC Desc:			
Mailing Address:			
Corp Address:			

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2016/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	73832.4	***Component Type:***	MAXIMUM
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2016/03	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	72366.7	***Component Type:***	AVERAGE
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.072367
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.073833
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 22.602
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 8.6255
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 6.6666
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.010427
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.007112
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 41.05
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 3546
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 3.4995
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 31.034
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.003546
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 1.1833
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.012926
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 71522.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.071523
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 76860.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.076861
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 8.4127
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4.0674
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 1.7694
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.067886
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 27.786
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 73205.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 72057.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 5592.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 10768
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 28.479
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 27.284
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.51244
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.009822
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.004552
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 4.3173
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL

DRAFT

Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.010052
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 7.6188
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 7.9911
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 65954.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.46168
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 2.6324
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 64628.5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.4524
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.078284
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 3.3124
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.048863
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 29.956
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.004387
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.015373 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2016/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.016956 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2016/07 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/07 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 8.373 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2016/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 9299
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.48219
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 1.1774
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.30291
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 2.211
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 2.3164
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.033627
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.046655
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.0086255
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 71403
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 1.9384
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.014957
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.014281
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 77712.2
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 68561.5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.92705
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5.823
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.070311
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.015373
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.073283
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.070777
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2016/09	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	22.126	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	SOLVENT EXTRACTABLES		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS SULPHIDE
Sample Date:	2016/09	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.059227	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS NITROGEN
Sample Date:	2016/10	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	AMMONIUM+AMMONIA, TOTAL FILTER.REAC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS CARBON
Sample Date:	2016/10	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	17.346	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	CARBON, DISSOLVED ORGANIC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2016/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	9.0173	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	RESIDUE,PART LOSS ON IGNIT.		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.05464
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.50066
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.0079006
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.47993
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.015543
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 32.057
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.073206
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.072058
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 9822
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON

DRAFT

Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 16.082
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4387
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 8.436
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.10513
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 8622
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 8.0387
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 30.927
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.009299
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 5.381
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.072497
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.068885
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.014189
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2016/10 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.044611 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2016/10 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.015477 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/07 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5.863 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/07 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 3.4697 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/07 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 2.6134 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 21.091
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 12121
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 6340
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 11.799
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.071403
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 28.463
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 10791
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 73748.2
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.01392
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.015109
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 12.121
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 3.1637
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 10427
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 71892.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.50324
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 9260
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.01475
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.013713
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.014412
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 28.341
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.051513
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 4.282
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.029974
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 7544.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 10584
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 2.5738

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 12.076
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4.387
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.51298
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.014657
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.0080387
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.64132
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 5381
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS

DRAFT

Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.83525
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 4.4096
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.059661
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 72497.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.49663
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.013777
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.010768
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 6.0565
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.067004
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.49982
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.39977
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.072807
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 25.055
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.010791
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.077713 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2016/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.50965 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/01 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 69444.8 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2016/01 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.069445 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2016/01 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014239 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 7.0263
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 3.3927
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 4.5125
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 8762.9
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 7177.7
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4.0291
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.057171
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.69316
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 15.426
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 14.486
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.03619
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.51857
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.014385
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.070754
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.27101
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.8738
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.013191
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.014155
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.06734
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 6.7549
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 32.367
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.50957
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.49218
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.014559
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.014062
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.00634
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 6277.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 74781.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.013889
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.01475
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.48611
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.014509
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.013889
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.014767
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.014403
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.49838
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.015109
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 6.34
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 53.872
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 1.5575
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.071892
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.015479
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 1.0803 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2016/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2016/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.54399 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2016/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014378 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2016/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 27.22 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 23.749
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.01414
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.041661
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.040761
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 7.9099
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.5041
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.4872
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.49544
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.0145
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.42052
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 31.897
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.0067929
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.70653
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.005863
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 5.4365
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.0145
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 6.373
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 2.211
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.014509
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.058611
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 25.152
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4.4615
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 11281
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4038
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 8.924
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 5.17
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 70699.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.070766
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 70753.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.51649
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.014305
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.011281
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 2.3352
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 35.56
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.014305
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.014534
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 1.6331
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 8.1673
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.051618
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4.465
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 3.7203
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.062468
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.014816
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.074082
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.4949
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.073784
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.064629
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.012926
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.014062 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 70311.6 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2016/07 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.49528 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2016/02 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.004038 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2016/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.06237 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2016/10 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 28.679 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.014641
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 7900.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.005689
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.50868
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.014641
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 4552
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.0085188
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 3.0379
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 8.176
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.059534
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 2.404
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.061803
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 5863
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.51683
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 2.7242
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 1.2046
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 17.923
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 3.394
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 15.86
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 37.968
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 3.2659
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.053526
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.013777
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.50748
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.012121
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 13.702
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.014957
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.20963
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 19.438
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.015543
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.013713
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 72543.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.076674
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.015335
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 10.791
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5.362
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.072013
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 7112
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 77392.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 64468.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 20.163
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 8.973
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 7.374
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 2.2748
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.066287
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.0077846
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 72794.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 16.214
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 9.62
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 7.275
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 3.4792
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 38.229
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 72668.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 7.7385
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.0055926
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.00926
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.50441
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.014534
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 1.2932
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 14.78
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 6.977
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5.6801
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 3.3116
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.064834
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 8038.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 1.6515
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.23266
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 3.3663
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.052736
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.014189
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 1.5723
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 9.5914
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.007146
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 9.629
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 68884.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.070947
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 20.181
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 2.1651
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 20.07
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 72806.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.015335
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.059052
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.083578
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 7026.3
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5362
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.0070263
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 2.3874
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.073748
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 76673.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.01392
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 71197.2 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2016/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014473 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/02 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 69599.7 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 6.824 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2016/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 27.655 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.064469
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.54175
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 3.6372
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 25.529
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 7784.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.99528
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4.6446
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.053331
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 73784.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.072795
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.095277
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.015452
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.014657
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 73282.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 8.461
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 7.822
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 22.671
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 3.3443
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.031759
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 59.506
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 8518.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 2211
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 29.463
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 5689
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.072669
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 8.5453
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 3.979
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 4.4293
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 45.38
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.0075442
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.010584
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 7.5338
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 6.843
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL

DRAFT

Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 3979
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 9.572
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 6.701
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 7146
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 0.005381
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 70946.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 8.7312
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 5.689
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.062811
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 1.6988
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.0071777
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 1.4011
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.013191
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/10 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 74081.7 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014559 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2016/02 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 1.6041 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2016/10 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.83256 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2016/10 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 3.5061
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 10.346
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4.3565
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 34.301
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104

Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 58.181
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 8625.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 2.9157
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.52347
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.014561
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.079954
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 34.433
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.50781
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.53672
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.014403
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 72013.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.014239
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.071197
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.50657
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.52882
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.069599
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.047768
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS CARBON
Sample Date:	2016/09	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	35.132	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	CARBON, DISSOLVED ORGANIC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2016/06	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.45128	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2016/06	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.014378	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	TOLUENE C7H8		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2016/11	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	70777	***Component Type:***	MINIMUM
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHOSPHORUS
Sample Date:	2016/09	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.69584	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHOSPHORUS,UNFILTERED TOTAL		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 8.91
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 9.9906
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 38.792
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4.537
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 4

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.014412
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.51624
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.35157
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 17.337
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 37.048
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 20.802
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 2.8468
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 1.67
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.049861
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 24.169
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 10346
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 4.3867
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.53803
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 0.014155
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.012894
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.66864 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 10052 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2016/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 30 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2016/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.003979 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2016/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 30 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2016/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 17.133
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.010346
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 2.3245
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 1.6194
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 6.665
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 8.7732
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 7.468
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.002211
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 4.8038
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/10
Regulation: MISA COMPLIANCE
Value: 0.86229
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/07
Regulation: MISA COMPLIANCE
Value: 0.046907
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 1.3716
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.074782
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/04
Regulation: MISA COMPLIANCE
Value: 0.014281
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/05
Regulation: MISA COMPLIANCE
Value: 0.047901
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.005362
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/05
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.068561
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/01
Regulation: MISA COMPLIANCE
Value: 0.072544
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 6.9804
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 8.829
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/02
Regulation: MISA COMPLIANCE
Value: 0.014767
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/03
Regulation: MISA COMPLIANCE
Value: 0.014473
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2016/03	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	75546	***Component Type:***	MAXIMUM
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2016/03	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.075546	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2016/04	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.014561	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2016/02	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2016/08	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	31	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	RESIDUE,PART LOSS ON IGNIT.		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.061501
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/08
Regulation: MISA COMPLIANCE
Value: 0.084847
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2016/09
Regulation: MISA COMPLIANCE
Value: 0.0087629
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.012894
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.077392
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2016/06
Regulation: MISA COMPLIANCE
Value: 0.015479
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

Site: ***PETRO-CANADA LUBRICANTS INC. MISSISSAUGA ON***

Database: ***SRDS***

Company Code: 0000130104
Works ID:
SIC:
SIC1:
SIC1 Desc:
SIC2:
SIC2 Desc:
SIC3:
SIC3 Desc:
Body of Water:
Terminal Stream:
SIC Desc:
Mailing Address:
Corp Address:
Sector:
Region:
District:
UTM Zone:
UTM Easting:
UTM Northing:
UTM Precision:
Minor Basin:
Major Basin:
Report Year: 2015

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 8.5265
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.072404 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014704 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2015/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.0054 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2015/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.04771 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2015/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.035616 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2015/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 14.559 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.036925
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 24.308
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 9188
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 12.492
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 12.492
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 3.7651
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 2.503
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.013671
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 71393.2
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.074921
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.075244
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.009188
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.20915
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.015006
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 72371.5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.050484
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 58.727
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 6.987
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.0063182
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 7.199
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 8.85
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.47272
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 6.7116
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.062419
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.014744
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.014744
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.013323
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 8.382
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.12133
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 7.3548
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.013544
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 72404.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.066439
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.015662
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON

DRAFT

Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 22.004
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.01558
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.069751
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.47849
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.051982
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4.576
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 7.572
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 6233.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 9212
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.0077017
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.37346
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 6.678 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2015/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.056341 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014771 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2015/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 7550.7 ***Component Type:*** AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 30 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.9304
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 7.2466
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 7.5014
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 7.5507
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5.4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.015425
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.037309
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.054871
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.004797
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 6.8243
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4129
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.43146
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 3.9826
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4.489
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 1929
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 2.8944
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 5.2553
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS SULPHIDE
Sample Date:	2015/07	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.048538	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS CARBON
Sample Date:	2015/08	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	25.756	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	CARBON, DISSOLVED ORGANIC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS CARBON
Sample Date:	2015/08	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	42.601	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	CARBON, DISSOLVED ORGANIC		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/12	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	71622.9	***Component Type:***	MINIMUM
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2015/12	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.071623	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.54531
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.066616
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.013288
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.015551
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.014225
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.54809
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.014422
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.015139
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 2.1758
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.013927
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.067722
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.48826
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.021133
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.013951
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.015425
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 2.4687
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.044046
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.010946
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 1.2093
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 1.6542
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 6.945
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 1.9235
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.032032
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 1.2718
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 6.005
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 34.9
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.015057 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2015/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 12.257 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 10098 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2015/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.0067605 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2015/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.003332 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 3.0869
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 5.088
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.50683
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5400
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 2.2896
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.25517
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.002867
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 12.287
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 6.002
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5.0081
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.042014
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 77124.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.49975
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 2.6712
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 1.9375
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.046235
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.052288
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 2.342
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 2.2069
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 23.28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 6318.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 8850
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 2.526
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 2.6268
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.011985
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 2.2118
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 1.4622
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.050393
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 32.993
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 21.371
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 4.2814
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN

DRAFT

Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 69389
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 73718.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.48572
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.51603
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.46631
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 75160.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.015032
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.01566
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.57433
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.013506
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 74893.8 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2015/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.074894 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2015/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.016555 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 69751.4 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.012492
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 2.183
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 2.6483
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5.753
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.015109
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 75244
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 75546
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4343
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.0063635
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 7058
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.005756
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.037727
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 25.16
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.073521
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.014565
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.013753
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.070342
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 2.3923
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 7701.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.98126
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.010098
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 2.0158
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 2.2341
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 1.8202
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 3.5401
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 5.406
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 33.661
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 12287
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 2867
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.0057661
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.49239
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 14.303
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 5714.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 7.3287
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.004069
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4797
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 1.5981
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 75028.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON

DRAFT

Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 23.753
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.02303
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.004129
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 6.3182
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.001929
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 3.0232
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 8.1994
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.013787
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 26.008
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 1.929
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 3.1614
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.083895
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.075284 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2015/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.52699 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2015/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.046746 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2015/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/02 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/07 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 72107.9 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.075692
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.54718
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.50475
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.47281
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.013288
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.015248
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 66439.2
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.5081
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.013951
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 71200.8
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.014325
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 30.182
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.004402
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.53987
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 18.127
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 6363.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.87768
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 6.2838
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 2.7086
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 8.1693
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 2.6358
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/01	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	6.618	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	RESIDUE, PARTICULATE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/01	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4.343	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	RESIDUE,PART LOSS ON IGNIT.		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS SULPHIDE
Sample Date:	2015/04	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.5066	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/04	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.01672	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	TOLUENE C7H8		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/11	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	30	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	M3/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 2526
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.22773
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 66186.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.066187
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 70342.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 17.834
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 13.686
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 1.4509
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.064827
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 25.517
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5766.1
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 8089
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.008089
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.08465
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4.8719
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.071393
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.077125
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 2.2408
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 74921.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.0057148
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 1.5144
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 2.6044
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.50794
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 27.603
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 9958
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 2.9369
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 7.1855
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4.797
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.13344
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 6.2337
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.048909
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.3592
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.14398
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 7.7708
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.057396
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.23153
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 16.282
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 75284.2
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.50136
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.013323
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.069389
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.028912
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 78297.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.071123
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.078169
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.072108
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.014422
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.014517
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 1.3866
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/08	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	72585.2	***Component Type:***	AVERAGE
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/08	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.015099	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/03	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.014771	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	BENZENE C6H6		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/03	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	73857.8	***Component Type:***	AVERAGE
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/03	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	76236.2	***Component Type:***	MAXIMUM
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.069637
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.52844
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.01424
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.014979
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.071201
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.52882
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.014985
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.072585
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 7328.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.013671
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5.7661
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 3.3575
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 13.66
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.004343
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 14.581
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.0066682
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 26.952
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 1.7867
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.5252
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.014475
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.009212
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.002526 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.01558 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5406 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/08 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 31 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.53366
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.014481
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.076236
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 25.34
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.0075507
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 3.9064
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 19.712
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 9.013
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 3.0015
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.058674
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.46331
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 17.358
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4069
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4.402
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.03339
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.013878
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.035042
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 30.074
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 7.212
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 6.134
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 34.516
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 73521.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 6724.4
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 1.0065
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.13723
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 1.6177
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 6.934
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 1.8533
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 77900.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.0779
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 66616.2
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 7.7017
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.013544
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 71123.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.49787
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 75692.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 78168.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 67721.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.075492
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 15.018
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.014279
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.009296
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5403.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 0.004031
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 9.54
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 4.968
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 30.743
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 18.095
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 7.145
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.51465
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.0062337
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 3.0341
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.005406
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 3332
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.015248
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 17.406
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.1382
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 4.1421
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.050726
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.52019
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 1.8572
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 5.006
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 68356.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 4.031
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.087444
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 28.582
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 6668.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.042035
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.046326
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 59.875
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 8.5291
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.014475
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 11985
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 3.29
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 5.2038
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.00885
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 5.7085
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.0067244
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 11.985
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.04689
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.044758
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 25.08
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.029908
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.014279
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 0.11101
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.017163
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.52613
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.015634
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.52985
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 0.015634
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.014225
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.014481
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.018922 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2015/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2015/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.4984 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2015/09 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.52425 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.015057 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2015/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.53716 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 23.592
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4402
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.0073287
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 2.9384
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.015049
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 9296
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 5.3895
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 5.7148
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 9.188
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.024587
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 74313.5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 3.5339
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 8917
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.008917
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 6760.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 8.917
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4.5477
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.073858
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.012287
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 2.6769
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 39.33
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4.177
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.2153
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 7.8388
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.068357
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 5.8822
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 10.186
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.075546
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.009958
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 1.2697
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.050015
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.04777
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/06
Regulation: MISA COMPLIANCE
Value: 0.042938
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON

DRAFT

Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 33.245
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 9.212
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 1.7726
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.036426
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.9034
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4.129
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.091844
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/07
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.073719
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 0.013878
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.013927 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.046437 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.013753 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2015/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.075161 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: 2015/06 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.078297 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2015/07 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.015139 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 0.67267
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/02
Regulation: MISA COMPLIANCE
Value: 69636.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 67530.5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 0.06753
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.52671
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.52445
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/08
Regulation: MISA COMPLIANCE
Value: 75491.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.13429
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 12492
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 10.55
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 8.089
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/09
Regulation: MISA COMPLIANCE
Value: 2.867
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 0.014985
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 22.15
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 28.143
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/12
Regulation: MISA COMPLIANCE
Value: 4031
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 4.069
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 2.2163
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10
Regulation: MISA COMPLIANCE
Value: 0.048615
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/10

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/01
Regulation: MISA COMPLIANCE
Value: 2.6494
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.075029
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/04
Regulation: MISA COMPLIANCE
Value: 0.072372
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/05
Regulation: MISA COMPLIANCE
Value: 0.015223
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/11
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHOSPHORUS
Sample Date:	2015/11	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.15549	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHOSPHORUS,UNFILTERED TOTAL		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS PHOSPHORUS
Sample Date:	2015/11	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.05593	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	PHOSPHORUS,UNFILTERED TOTAL		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/05	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	4	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:	M3/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	FLOW		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:	2015/05	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.074313	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:	2015/12	***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.014325	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	TOLUENE C7H8		

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 1.6542
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 0.51701
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2015/03
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

Site: ***PETRO-CANADA PRODUCTS - MISSISSAUGA LUBRICANTS CENTER MISSISSAUGA ON***

Database: ***SRDS***

Company Code: 0000130104
Works ID: 33
SIC: 3612
SIC1:
SIC1 Desc:
SIC2:
SIC2 Desc:
SIC3:
SIC3 Desc:
Body of Water:
Terminal Stream:
SIC Desc: LUB. OIL & GREASE
Mailing Address: 000385 SOUTHDOWN RD ,000385SOUTHDOWN RD,,MISSISSAUGA,ONTARIO,CANADA,L5J 2Y3
Corp Address: 385 SOUTHDOWN RD ,385 SOUTHDOWN RD,,MISSISSAUGA,ONTARIO,CANADA,L5J 2Y3
Sector:
Region: MOE CENTRAL REGION
District: MOE HALTON-PEEL DISTRICT
UTM Zone:
UTM Easting:
UTM Northing:
UTM Precision:
Minor Basin: LAKE ONTARIO
Major Basin: GREAT LAKES
Report Year: 2010

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date:
Regulation:
Value:
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name:
Result Structure:
Param Reported As:
Frequency:
Sector: PETROLEUM REFINERIES
Component Type:

MISA Industrial Wastewater Discharge

DRAFT

Company Code:	0000130104	***Result Structure:***	
Control Point ID:	0700	***Param Reported As:***	
Sample Date:		***Frequency:***	
Regulation:		***Sector:***	PETROLEUM REFINERIES
Value:		***Component Type:***	
Unit of Measure:			
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:			

Site: ***PETRO-CANADA LUBRICANTS INC.***
MISSISSAUGA ON

Database: ***SRDS***

Company Code:	0000130104	***Sector:***	
Works ID:		***Region:***	
SIC:		***District:***	
SIC1:		***UTM Zone:***	
SIC1 Desc:		***UTM Easting:***	
SIC2:		***UTM Northing:***	
SIC2 Desc:		***UTM Precision:***	
SIC3:		***Minor Basin:***	
SIC3 Desc:		***Major Basin:***	
Body of Water:		***Report Year:***	2012
Terminal Stream:			
SIC Desc:			
Mailing Address:			
Corp Address:			

MISA Industrial Wastewater Discharge

Company Code:	0000130104-2012	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS H2S
Sample Date:		***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.049224	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	SULPHIDE, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104-2012	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPL
Sample Date:		***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	5	***Component Type:***	NUM. IN AVERAGE
Unit of Measure:			
Control Point Name:	PLANT - O.T.C.W.		
Parameter Name:	TOLUENE C7H8		

MISA Industrial Wastewater Discharge

Company Code:	0000130104-2012	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPL
Sample Date:		***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.013961	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - O.T.C.W.		
Parameter Name:	TOLUENE C7H8		

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013362
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.39823
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.004451
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.010048
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.9642
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5045
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.279
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014208
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.051093
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01292
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 64599.5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.066449
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014208
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10860
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.856
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013442
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 67208
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01605
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7426
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.010516

Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.543
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.031094
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.025794
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013643
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.07819
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.044506
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.94
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013854
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.3286
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.075002
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013622
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013442
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.0621
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7784
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6314
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0071493
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0063776
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.4919
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0017335
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.1528
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.53
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.531
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 17.394
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 28.55
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.1324
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.014621
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015009
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 31887.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.752
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 24.34
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9139
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0076066
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.21322
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015001
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 86074
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.324
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.22322
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.061046
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS N
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.4688
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.549
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.054303
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47678
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013622
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.018423
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 61155.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.44106
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.088738
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.522
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013272
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.000341
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.3591
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.383
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015296
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.043695
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 16.278
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.4529
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 37.833
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 16.174
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2492
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.8825
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 17.444
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.7837
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3.2556
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.6066
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.9583
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013643

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 56377.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 69270
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 68217.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.2384
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.4796
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.6876
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013462
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013695
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47046
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 16.589
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.688
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.8837
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 91.707
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.99615
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.040075
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.055923
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.451
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.49869
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.51175
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7654.4
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.045
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.044597
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 75002.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.018378
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.075045 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 6.9185 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.57673 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS H2S
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS H2S
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.42733 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.032595 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.594
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.058268
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.46767
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012854
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0063575
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 12481
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0071278
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.005045
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 66362.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 71041.9
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01329
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013695
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 68474.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.071042
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 31.064
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7276.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0464
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013462
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.03892
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.632
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.9544
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0091726
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.3683
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.922
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.0813
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.20506
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.357
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013644
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.0185
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 16.03
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8337
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13.146
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.813

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.018366
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.5008
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.1502
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.063009
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 18.554
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.008337
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.001168
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0064039
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.0706
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 12.113
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014621
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 66809.9
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.069806
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.2221
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.057309
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 20.465
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 64270.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0079535
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.020106
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.005324
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 25.432
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.442
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47932
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.009139
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.52532
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 61046.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 70035.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.49025
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.064442
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.034454
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6929.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 40.212
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.80942
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 12.848
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.913
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.46454
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 23.769
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3.0341
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013644
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 66068.3
Unit of Measure: M3/D

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.573
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.6132
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10720
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 41.238
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.97582
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS N
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 26.118
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.004984
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.032
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 19.912
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.091224
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012669
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.020082
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.6136
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.6629
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.3303
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0077218
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013362
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 22.44
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6559.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 14.456
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6048.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.016499
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.056891
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13.634
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 25.592
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0036756
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.3282
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012209
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.070035
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS N
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS N
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 19.65
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.046333
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.42809
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015009
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4451
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.4349
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.071974
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.4973
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 79438.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 68021.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 14.074
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 29.793
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 667
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10282
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 11.147 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.667 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** PHENOL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.032715 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS H2S
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.060851 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4.922 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** PHENOL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.068213 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.056377
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.39464
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.44341
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.565
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.067308
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.2533
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.057039
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0082766
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.48489
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47116
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47752
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5531
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013214
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 18.641
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013961
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 20.998
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.125
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.9651
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.0394
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 71241.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:

Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.038396
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0086674
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0076792
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0017335
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5324
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 16.597
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.442
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.079439
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.075435
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.46514
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01292
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012209
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 12.694
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8549
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.5208
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.8562
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.9435

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.048377
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.48865
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.005856
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012854
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.72
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.067897
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.040992
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.048286
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 5856
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.10024
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.72479
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9476.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.7506
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13.417
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.9591
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.4876
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 14.335
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.8429
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 68212.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 63344.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 67308.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.06927
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.068217
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 50.022
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 8.337
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 21.815
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.067208
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.6544
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012669
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 35.849
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4922
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.004922
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.060403
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 38396
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.3324
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013604
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.3652
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 31.916
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5454
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9688
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.3836
Unit of Measure: KG/D

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.79225
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.2992
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.035315
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.071241
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.12864
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 75045.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11817
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.89547
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.68627
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014248
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 4442
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.2245
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.139
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.045966
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015296
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 75434.9
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.086075
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.52805
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.55607
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 19.074
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014007
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 65157
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.065157
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.4561
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.079186
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS N
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.2263
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.041496
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.058359
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01373
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 56890.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011378
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0063776
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 66449.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.066362
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47528
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013272
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 15.803
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013214
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.066069
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7463
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.000667
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.948
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.282
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.06959
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.03178
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.04843
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011276
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011276
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.005594
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 5.928
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.847
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.6218
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.341
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 39.04
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 32.536
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.005454
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.009688
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.96663
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013604
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.884
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.911
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.043267
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0076792
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.080925
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS N
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 15.978
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.049712
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.52501
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 68111.9
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 69806
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.4499
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.068112
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0076544
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.187
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.6185
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014248
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015001
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:

Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.073107
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0646
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 26.718
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.064271
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7606.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.004442
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.86246
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.693
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.45219
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01329
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 22.105
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013031
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5594
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.047471
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.7639
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011378

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 63008.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.031309
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.3237
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS N
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.1619
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012481
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.463
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013579
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 67896.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013579
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.3639
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 341
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.055391
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.3227
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.8248
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 19.531
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.3161
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13245
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011448
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.1051
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.4595
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.063345
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47749
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013854
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 14.521
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.02172
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 2.1055 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 13.328 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4.592 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS P
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 1.1259 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS C
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 28.76 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** PHENOL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.068021 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47615
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.46248
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 17.252
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.454
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3.237
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.91923
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.061156
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 25.804
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS C
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6468.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.337
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.5596
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.06681
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.371
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.045
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.068474
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0036756
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 18377.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8667.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.26877
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.060672
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7629.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.031888
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.41963
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS P
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.731
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.6688
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.60252
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS H2S
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2012
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 73106.9
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code:	0000130104-2012	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	NOT APPL
Sample Date:		***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	11.963	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	RESIDUE, PARTICULATE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104-2012	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0700	***Param Reported As:***	AS C
Sample Date:		***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	15.884	***Component Type:***	AVERAGE
Unit of Measure:	KG/D		
Control Point Name:	PLANT - PROCESS EFFLUENT		
Parameter Name:	CARBON, DISSOLVED ORGANIC		

Site: ***PETRO-CANADA LUBRICANTS INC.***
MISSISSAUGA ON

Database: ***SRDS***

Company Code:	0000130104	***Sector:***	
Works ID:		***Region:***	
SIC:		***District:***	
SIC1:		***UTM Zone:***	
SIC1 Desc:		***UTM Easting:***	
SIC2:		***UTM Northing:***	
SIC2 Desc:		***UTM Precision:***	
SIC3:		***Minor Basin:***	
SIC3 Desc:		***Major Basin:***	
Body of Water:		***Report Year:***	2013
Terminal Stream:			
SIC Desc:			
Mailing Address:			
Corp Address:			

MISA Industrial Wastewater Discharge

Company Code:	0000130104-2013	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	AS PHENOL
Sample Date:		***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.069506	***Component Type:***	MAXIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		
Parameter Name:	PHENOLICS, UNFILTERED REACTIVE		

MISA Industrial Wastewater Discharge

Company Code:	0000130104-2013	***Result Structure:***	MISA MONTHLY REPORTING
Control Point ID:	0800	***Param Reported As:***	NOT APPLICABLE
Sample Date:		***Frequency:***	MONTHLY
Regulation:	MISA COMPLIANCE	***Sector:***	PETROLEUM REFINERIES
Value:	0.0011627	***Component Type:***	MINIMUM
Unit of Measure:	KG/D		
Control Point Name:	PLANT - ONCE THROUGH COOLING WATER (OTCW)		

DRAFT

Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.010637
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 28.786
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013274
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.067184
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.46898
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0058132
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.8414
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0098582
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 75311.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011968
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 76819.4 ***Component Type:*** AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.015364 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.015791 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.063581 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4.7527 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 66194.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.023121
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.078684
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.2278
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 23.568
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.059995
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.33071
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.6624
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.8008
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.064644
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5813.2
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.069276
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014651
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014651
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01107
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.3802
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.006982
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.068164
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1086
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 67932.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.057061
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13.325
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.9705
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011265
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.45672
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.2486
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.4389
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.074144
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11591
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.77947
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.077266
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.039067
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013587
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 59841.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.07
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 32.637
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.8261
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.065244
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 61522.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013437
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13.77
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.007047
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.1556
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.4022
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.741
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.2521
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.7486
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.19125
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 55360.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012305
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.065734
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.07459
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.075728
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5908
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013233
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011968
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3.3349
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13.556
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.75743
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10157.5
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.591
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 18.604
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.067933 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 28.025 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 1.086 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 1.9774 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.663
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.0005
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.241
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3.9285
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013

Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.085015
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.36075
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015062
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015062
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.7628
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014895
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.41889
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.059842
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.48493
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 25.431
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.44507
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4807
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 29.323
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.574
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.6994
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013221
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 1.5691
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.06637
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.334
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.058642
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.057274
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014639
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 12415
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.043918
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.073192
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.069069
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.09639
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011699
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.2331
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13.215
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.7052
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013006
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01377
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.497
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013325
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013239
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.971
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 28.218
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.966
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.1107
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.003303
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 71221.3
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 74143.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 11698.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.661
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0011627
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.28836
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.2444
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 19.548
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015146
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01383
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014239
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.179
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.036
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 73192
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 12338
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7762.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 11554 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.47029 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 12.47 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.45167 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.011728 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 6.539 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.072211
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 27.628
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 64643.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.072261
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.057442
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013006
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.004036
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.43066
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 66998
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11265
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011072
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.074676
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.051536
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.079131
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.87439
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 31.641
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.748
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7097.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.8543
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013274
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 11.038
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0134
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9630
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 17.182
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.038
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0097097
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.316
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013587
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.007717
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.212
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.158
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.066142
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.46013
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.067883
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.44488
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 15.043
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.48
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.4066
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.06923
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 24.461
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012716
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.48694
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3303
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 73255.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 67883.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 67183.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.009459
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 69150.9 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 2.8384 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 8.182 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 2.4838 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)

DRAFT

Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 32.657
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.053949
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.010307
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.010158
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.005711
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3.8779
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.7424
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.46459 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.013633 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 7.3482 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 2.6333 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 1.0225 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 66370.3 ***Component Type:*** AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6212
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.3273
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.051485
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7047
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 69506.7
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.05042
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013437
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 38.195
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 74477.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0088008
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.6391
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 58641.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013913
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.49855
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.5787
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 20.15
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 75728.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.98129
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7717
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012305
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.5976
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 1.7259
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.062
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47518
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.1304
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.066998
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.581
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.066213
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.1415
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013147
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.53009
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.071253
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012905
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0070977
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01383
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.4525
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 20.054
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 19.884
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.010172
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 76899.1
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014244
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.6418
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013527
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.8582
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 69276.5
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 51535.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS

DRAFT

Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 1.049 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 63581.1 ***Component Type:*** AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.069563 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.012338 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.058909 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 22.361 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT

DRAFT

Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.2316
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012711
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014829
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3.7635
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 64524.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.52718
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015827
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 20.47
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013633
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.073255 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS PHENOL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.065029 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 63554.6 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.078855 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.005908 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.013576 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014244
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.084487
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.699
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.717
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9858.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.51235
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.707
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.064525
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8562
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 15.154
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.071221
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.091469
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.066771
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 22.22
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.38752
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 7.047
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 29.476
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.164
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.6364
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.49835
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.0948
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 5.853
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 69563.2
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012929
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 22.788
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3.303
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 24.788
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.055361
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.7284
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.27606
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 29.28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.059493
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10574
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.45521
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.51279
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.797
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013239
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.4971
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 37.529
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.075312
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 65244.6
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.027
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.711
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 12.415
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.6176
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11663.1
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.07209
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 24.766
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01538
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013901
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.066195
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.076819
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 25.117
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 65028.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.047579
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.265
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 32.669
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5711
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015146
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.012415 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 7.355 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 11070 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.01675 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** AS SULPHIDE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.040692 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014355 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.063555
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 39.904
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015364
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.066165
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.41049
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.459
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.8915
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3.303
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.010307
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 17.001
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.026339
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.045773
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 5.908
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.668
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.52134
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.070189
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.001086
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.6312
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 15.685
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.867
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013049
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.3964
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013576
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.013147
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014895
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0088349
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.016922
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9709.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.004807
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 41.31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.46316
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011072
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.661
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.562
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.7097
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.554
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011554
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.46336
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4.807
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date:
Regulation: MISA COMPLIANCE
Value: 8130.4
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.061523
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 71192.8
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0081304
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.006212
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 12.338
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9.63
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.5383
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012905
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13325
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.48655
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 24.973
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8800.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011591
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 6982 ***Component Type:*** AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.013855 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.065738 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 30.482 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 65733.8 ***Component Type:*** AVERAGE
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.1515
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.08729
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.3771
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.008038
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.00963
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13.953
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 12.024
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.499
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 36.588
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10636.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.519
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.53774
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.074477
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47553
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012716
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.069015
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 66165.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10172
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 6.298
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.071148
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 9459
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 31.902
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0769
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.6284
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.05091
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13770
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8.165
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 23.79
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.48406
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.012711
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.065114
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 10.741
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.044086
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014639
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.55392
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 3.5688
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.59784
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.6645
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.01538
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 12.145
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 8038
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.47715
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 68164.4
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.8414
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.014239
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.015827
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.265
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13.527
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.011728 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 6.274 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.013049 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.26295 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 10.637 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 7.9237 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT

DRAFT

Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.011663
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 4036
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.6317
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.060627
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 2.3026
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 13527
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.071193
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.0077628
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.22
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 0.069151
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.009497 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 9497 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.013901 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 20.783 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 33.52 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.014829 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: TOLUENE C7H8

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 11.173
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 1.4938
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0800
Sample Date:
Regulation: MISA COMPLIANCE
Value: 79130.9
Unit of Measure: M3/D
Control Point Name: PLANT - ONCE THROUGH COOLING WATER (OTCW)
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104-2013
Control Point ID: 0700
Sample Date:
Regulation: MISA COMPLIANCE
Value: 16.739
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

Site: ***PETRO-CANADA LUBRICANTS INC. MISSISSAUGA ON***

Database: ***SRDS***

Company Code: 0000130104
Works ID: 33
SIC: 3612 3611
SIC1:
SIC1 Desc:
SIC2:
SIC2 Desc:
SIC3:
SIC3 Desc:
Body of Water: LAKE ONTARIO
Terminal Stream:
SIC Desc: LUB. OIL & GREASE, REFINED PETRO. PROD.
Mailing Address: 000385 SOUTHDOWN RD ,000385SOUTHDOWN RD,,MISSISSAUGA,ONTARIO,CANADA,L5J 2Y3
Corp Address: 385 SOUTHDOWN RD ,385 SOUTHDOWN RD,,MISSISSAUGA,ONTARIO,CANADA,L5J 2Y3

Sector:
Region: MOE CENTRAL REGION
District: MOE HALTON-PEEL DISTRICT
UTM Zone: 1
UTM Easting: 999999
UTM Northing: 999999
UTM Precision: 1
Minor Basin: LAKE ONTARIO
Major Basin: GREAT LAKES
Report Year: 2009

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date:
Regulation:
Value:
Unit of Measure:
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name:
Result Structure:
Param Reported As:
Frequency:
Sector: PETROLEUM REFINERIES
Component Type:

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0300
Sample Date:
Regulation:
Value:
Unit of Measure:
Control Point Name: ONCE-THROUGH COOLING WATER
Parameter Name:
Result Structure:
Param Reported As:
Frequency:
Sector: PETROLEUM REFINERIES
Component Type:

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0100
Sample Date:
Regulation:
Value:
Unit of Measure:
Control Point Name: PROCESS EFFLUENT
Parameter Name:
Result Structure:
Param Reported As:
Frequency:
Sector: PETROLEUM REFINERIES
Component Type:

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date:
Regulation:
Value:
Unit of Measure:
Control Point Name: PLANT - O.T.C.W.
Parameter Name:
Result Structure:
Param Reported As:
Frequency:
Sector: PETROLEUM REFINERIES
Component Type:

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0500
Sample Date:
Regulation:
Value:
Unit of Measure:
Control Point Name: ONCE-THROUGH COOLING WATER
Parameter Name:
Result Structure:
Param Reported As:
Frequency:
Sector: PETROLEUM REFINERIES
Component Type:

DRAFT

Company Code: 0000130104
Works ID:
SIC:
SIC1:
SIC1 Desc:
SIC2:
SIC2 Desc:
SIC3:
SIC3 Desc:
Body of Water:
Terminal Stream:
SIC Desc:
Mailing Address:
Corp Address:
Sector:
Region:
District:
UTM Zone:
UTM Easting:
UTM Northing:
UTM Precision:
Minor Basin:
Major Basin:
Report Year: MISA 2017

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 6.9296
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 9.481
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 17.178
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 2.8843
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.074408
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.48842
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.014647
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.014436
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.01426
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 76472.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.076473
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.5353
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.013891
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 6.073
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.014434
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.072413
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 3.6968
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5611.3
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 10063
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.070954
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.012716
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.032165
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 15.407
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.0047879
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.003691
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 1.0938
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 1.2884
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.52086
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.014354
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.013964
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.01426
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.070475
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.50524
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.014419
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 69455.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.069455
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.014046
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 9499

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4.002
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4.4828
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 70505.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.50517
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 73952.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.014482
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 7.397
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL

DRAFT

Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.063579
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.44505
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.014206
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 6.7514
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 3.0365
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.0781
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 2127
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.53748
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.078099
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.033887
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.032543
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.014575
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 71930.3
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 72876.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.50351
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.014225
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.071769
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.013964
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.012562
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 62808
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.069821
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.073235
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.70887
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 3.4082
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.076281
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 7311.8
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.009866
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.67677
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 11.683
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 24.438
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 92.358
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.015256
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.01479
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.014226
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.071032
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.53941
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.49722
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 2.4623
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 31.928
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.07738
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 12.136
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 20.574
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 4.6931
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 3.4898
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.055874
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 2.6715
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 1.93
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.014095
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 71298.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.013891
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.072095
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.48619
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.014419
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 70229.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.070229
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 3.3817
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 36.306
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2017/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 77058.3 ***Component Type:*** MAXIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2017/11 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 71031.8 ***Component Type:*** MINIMUM
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2017/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 15.476 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2017/03 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 2.7974 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2017/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.69173 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 250.37
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 77380.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.076783
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.54166
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 1138
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 4.849
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.064639
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.075586
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.017819
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 1.4995
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 5.447
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 16.319
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 2.1243
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 2381
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 1.4286
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4.4949
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.068824
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.014046
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.009499
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 72946.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.072946
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 72168.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.072168
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.066493
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.054103
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 20.648
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.003532
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.98833
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 3.532
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 7.425
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 5.7607
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 1.7985
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 4.4657
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 83.38
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.0080502
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 72412.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.073952
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.0089734
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.010063
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 1.3266
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.044867
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.52037
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.014868
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.035175
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 20.693
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.07063
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.10612
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.15672
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.31905
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 39.715
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2017/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.3124 ***Component Type:*** MAXIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2017/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0800 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2017/12 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.01537 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** NOT APPLICABLE
Sample Date: 2017/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 4 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2017/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 5 ***Component Type:*** NUM. IN AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 35.264
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.01281
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 75.051
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5.8309
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 3.113
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 26.69
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 22.631
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 7.5233
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 1.8477
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.059332
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 6257.1
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 9260
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 3.642
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 6929.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4787.9
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 3691
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.72524
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 9.098
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 3.691
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 2.1707
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.014386
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.49786
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.014354
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.069774
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.071299
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.072178
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.014436
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.015295
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 29.611
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.0082169
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.2396
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.014589
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.075279
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.52695
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.014434
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 74468.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.52128
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 9866
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 12.661
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.014482
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.01479
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.4979
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.014191
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 44867.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.62196
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5.025
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 62.605
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 3.406
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.042596
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 44.394
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 76782.9
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.079025
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.004849
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.0097896
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4.213
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 5.1547
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.038129
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 11655
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.97621
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.068397
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.0075233
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.009662
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.00377
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 7.267
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 9.552
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 3.77
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 2.639
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.050869
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 6169.7
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 6.1755
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 8.535

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 2.1928
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 21.37
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.003642
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 6.033
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 20.357
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 3753
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 7.388
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 13.195
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 9662
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 3.5773
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.066864
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 8535
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 4.8632
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 4.2916
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 19.892
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.034811
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.071931
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.51014
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 1.3499
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 3.77
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 4.8992
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 531
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 2.4064
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 1.0869
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.00926
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 1.6692
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 1.1097
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 8.472
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 9.26
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.059304
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.003753
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 14.982
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 4.595
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.50238
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 73235.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.48874
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.43966
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.012562
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 72177.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.49333
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.014095
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 9.662
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.02639
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.0061697
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.000531
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4.511
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4.973
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 71123.1

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.014575
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.013955
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.48176
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.014215
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 8216.9
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 5795
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 8.8295
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.015056
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.51062
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 30.499
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 2.7188
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 6.2571
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 5.8457
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 3.483
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 1.3504
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.42734
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 48.546
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 2.127 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS SULPHIDE
Sample Date: 2017/04 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.051975 ***Component Type:*** MINIMUM
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS NITROGEN
Sample Date: 2017/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS CARBON
Sample Date: 2017/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 43.883 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHENOL
Sample Date: 2017/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 0.0092581 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104 ***Result Structure:*** MISA MONTHLY REPORTING
Control Point ID: 0700 ***Param Reported As:*** AS PHOSPHORUS
Sample Date: 2017/05 ***Frequency:*** MONTHLY
Regulation: MISA COMPLIANCE ***Sector:*** PETROLEUM REFINERIES
Value: 1.1649 ***Component Type:*** AVERAGE
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 284.45
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 9.7024
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 45.239
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.011655
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.002381
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 236.93
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 2.381
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.051763
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.044826
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 26.077
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 7523.3
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 18.486
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.008535
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 8.476
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.531
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 29
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.043229
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 14.055
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.0062571
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 2.03
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.031577
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 1.5379
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 17.415
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 2.0001
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.041229
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.052437
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 5525
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.005525
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 1.8611
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.014225
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 12.394
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 3.9837
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 26.236
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 9481
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.014386
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.014882
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 71768.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 69773.9
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 69820.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.062808
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.49909
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 3770
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 1.193
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 3.753
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 4.5568
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 4.9346
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.072877
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.014882
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.015295
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 72094.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.014215
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.013765
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 68823.8
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.49754
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.013765
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 23.733
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4.767
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 6.1697
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 3.1233
Unit of Measure: KG/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.033369
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 3642
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 3.5151
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.042231
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.51265
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.4916
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 22.721
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.98751
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 7.729
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.014101
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.015056
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.061201
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 3532
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.0073118
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.51767
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.012716
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 23.888
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.0069296
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.009481
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4.841
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4.649
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 18.998
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 18.998
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 5.795
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.070505
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.014101
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 26.039
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 71128.1
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 70953.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.053267
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.064694
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.014191
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.0089734
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.014868
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.042511
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 23.844
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.003406
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.19197
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 6.0852
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.31407
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.014206
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.015411
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 65.826
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 79025.5
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.55318
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.071124
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 74408.6
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0800
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 0.013955
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8

Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.014647
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 70475.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 74338.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.074339
Unit of Measure: KG/D

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.077058
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.0080599
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.066952
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 57.229
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 4849
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 9.9335
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 9258.1
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 12810
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.69853
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 14.751
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 50.596
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 1930
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 0.50466
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 71077.4
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.071077
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 36.02
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC

Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 16.832
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/05
Regulation: MISA COMPLIANCE
Value: 121.91
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 9789.6
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 17819

Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

DRAFT

Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 45.48
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 128.38
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 0.00193
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 30
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/06
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 33.221
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 7.99
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 4.762
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE

DRAFT

Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 6.8224
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.22413
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: AMMONIUM+AMMONIA, TOTAL FILTER.REAC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS NITROGEN
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 0.005795
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 13.369
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 75279.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.49354
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Parameter Name: SULPHIDE, UNFILTERED REACTIVE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.014589
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.014894
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.015256
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 76280.7
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.074469
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

DRAFT

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/01
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 36.044
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 28
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 1.4337
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES

DRAFT

Value: 0.53397
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/08
Regulation: MISA COMPLIANCE
Value: 0.014894
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.014226
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.071128
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 0.50689
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/09
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 63579.2
Unit of Measure: M3/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 8050.2
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 2.2714
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 3.2733
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Result Structure: MISA MONTHLY REPORTING

DRAFT

Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 9.771
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE, PARTICULATE
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 24.403
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: RESIDUE,PART LOSS ON IGNIT.
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/07
Regulation: MISA COMPLIANCE
Value: 0.016667
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/02
Regulation: MISA COMPLIANCE
Value: 3.0699
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SOLVENT EXTRACTABLES
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 16.752
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: CARBON, DISSOLVED ORGANIC
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS CARBON
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 3406
Unit of Measure: M3/D
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

DRAFT

Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 31
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.0056113
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 0.49667
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/10
Regulation: MISA COMPLIANCE
Value: 4
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 0.015411
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater

DRAFT

Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/11
Regulation: MISA COMPLIANCE
Value: 5
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: NUM. IN AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/03
Regulation: MISA COMPLIANCE
Value: 0.051779
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: SULPHIDE, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS SULPHIDE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 8059.9
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 11157
Unit of Measure: M3/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: FLOW
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY

DRAFT

Regulation: MISA COMPLIANCE
Value: 0.011157
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 0.002127
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHENOLICS, UNFILTERED REACTIVE
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHENOL
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 1.4517
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0700
Sample Date: 2017/04
Regulation: MISA COMPLIANCE
Value: 2.1191
Unit of Measure: KG/D
Control Point Name: PLANT - PROCESS EFFLUENT
Parameter Name: PHOSPHORUS,UNFILTERED TOTAL
Result Structure: MISA MONTHLY REPORTING
Param Reported As: AS PHOSPHORUS
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MAXIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 0.01537
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: BENZENE C6H6
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: MINIMUM

MISA Industrial Wastewater Discharge

Company Code: 0000130104
Control Point ID: 0800
Sample Date: 2017/12
Regulation: MISA COMPLIANCE
Value: 284.51
Unit of Measure: KG/D
Control Point Name: PLANT - O.T.C.W.
Parameter Name: TOLUENE C7H8
Result Structure: MISA MONTHLY REPORTING
Param Reported As: NOT APPLICABLE
Frequency: MONTHLY
Sector: PETROLEUM REFINERIES
Component Type: AVERAGE

DRAFT

Site: **Petro-Canada Lubricants Inc.**
Clarkson Refinery Mississauga ON L5J 2Y3

Database: WDS

Approval No:	A220111	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m³):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Revoked and/or Replaced	**Transfer Cap (m³):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	
Link Source:	IDS	**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES	**Process Area (m³):**	
Application Status:		**Process Cap (m³/d):**	
Issue Date:	2015-11-10	**Process Vol (m³):**	
Input Date:		**Process Feed (m³):**	
Date Received:		**Site Concession:**	
Est Closure Date:		**Site Region/County:**	
Mobile Capacity:		**SWP Area Name:**	
Mobile Units:		**MOE District:**	
Mobile Description:		**District Office:**	
Prop City:		**Latitude:**	
Prop Postal:		**Longitude:**	
Prop Phone:		**Geometry X:**	
Serial Link:		**Geometry Y:**	

Approval Type: ECA-WASTE DISPOSAL SITES
Proponent:
Prop Address:
Proponent County/District:
Full Address: Clarkson Refinery
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/0338-8BHLH3-14.pdf
PDF Site Location:

Site: **Petro-Canada Lubricants Inc.**
Clarkson Refinery Mississauga ON L5J 2Y3

Database: WDS

Approval No:	A220111	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m³):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Revoked and/or Replaced	**Transfer Cap (m³):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	
Link Source:	IDS	**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES	**Process Area (m³):**	
Application Status:		**Process Cap (m³/d):**	
Issue Date:	2010-07-29	**Process Vol (m³):**	
Input Date:		**Process Feed (m³):**	
Date Received:		**Site Concession:**	
Est Closure Date:		**Site Region/County:**	
Mobile Capacity:		**SWP Area Name:**	
Mobile Units:		**MOE District:**	
Mobile Description:		**District Office:**	
Prop City:		**Latitude:**	
Prop Postal:		**Longitude:**	
Prop Phone:		**Geometry X:**	

DRAFT

Serial Link:	***Geometry Y:***
Approval Type:	ECA-WASTE DISPOSAL SITES
Proponent:	
Prop Address:	
Proponent County/District:	
Full Address:	Clarkson Refinery
Site Lot:	
Waste Class Code:	
Waste Class:	
Waste Type:	
Waste Type Other:	
Waste Description:	
Landfill Monitoring:	
Landfill Ctrl Type:	
Site Closing Description:	
Project Description:	
Municipalities Served:	
Approval Description:	
Other Approvals/Permits:	
PDF URL:	https://www.accessenvironment.ene.gov.on.ca/instruments/5404-838SYP-14.pdf
PDF Site Location:	

DRAFT

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Mar 2022

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-May 31, 2022

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

DRAFT

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2020

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-May 31, 2022

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Apr 2022

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Jun 2022

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Jun 30, 2022

DRAFT

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Feb 28, 2022

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011- Jun 30, 2022

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Jun 30, 2022

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Jun 30, 2022

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Mar 31, 2022

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

DRAFT

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2021

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Jun 2022

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

DRAFT

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Feb 28, 2022

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Mar 21, 2022

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

DRAFT

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2022

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2020

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

DRAFT

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-May 31, 2022

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Jun 30, 2022

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

DRAFT

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Jun 30, 2022

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Jun 30, 2022

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Jun 2022

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-May 31, 2022

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Sep 2020; Dec 2020-Mar 2021

DRAFT

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2020

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Jun 30, 2022

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Jan 31, 2022

DRAFT

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

DRAFT

APPENDIX C:
AERIAL PHOTOGRAPH SUMMARY

DRAFT

Date:	9/28/2022	File:	719033
To:	GMBP Team		
From:	Mark Ongarato		
Project:	Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule C Class Environmental Assessment		
Subject:	Aerial Photograph Review for Phase One ESA		

TECHNICAL MEMO

For the purposes of this memo, the direction "north" means the direction along Hurontario Street toward Highway 403.

Notes:

Items in Red text represent observations from aerial imagery returned by Mississauga Maps (City of Mississauga 2022) that are considered to indicate significant areas within the project Study Area and are within the immediate 100 m study area of a particular Site.

Items in Blue text represent observations from aerial imagery returned by Mississauga Maps (City of Mississauga 2022) that are considered to indicate significant areas within the project Study Area and outside of the immediate 100 m study area of a particular Site.

Rosemere Rd. - Site "ROS_1"

Year	Notes
1954	Phase 1 ESA Site Assessment Area appears as a right-of-way (Rosemere Rd) and green space. Four (4) residential dwellings appear on the north side of Rosemere Rd. A short path (or driveway) can be seen on the south side of Rosemere Rd. It is unclear whether a building is present adjacent to the path (or driveway). Areas north and west of Rosemere Rd. are developed for what appear to be residential use. A small, wooded area and additional residential lots exist to the east. To the south, a railway appears to travel in an east / west direction. A drainage ditch (Mary Fix Creek) appears to travel in an east / west direction and is located south of Rosemere Rd., but north of the train tracks. A connection to this drainage ditch (Mary Fix Creek) can be seen at the east end of Rosemere Rd.
1966	No apparent changes to the Site.
1975	No apparent changes to the Site.
1985	No apparent changes to the Site.
1997	No apparent changes to the Site.
2007	No apparent changes to the Site. A small building can clearly be seen on the south side of Rosemere Rd, near the road's south end (location of the current pumping station).
2017	No apparent changes to the Site.

DRAFT

Sandham Rd. - Site "ROS_2"

Year	Notes
1954	Phase 1 ESA Site Assessment Area (Sandham Rd right-of-way) appears to connect Mona Rd and Vesta Dr. in what appears to be a developed residential area. To the east, a rectangular plot of vacant land appears to occupy the space between Sandham Rd and Hurontario St. Beyond this plot of land are residential developments. To the south, a railway appears to travel in an east / west direction (parallel to Sandham Rd). An apparent drainage ditch (Mary Fix Creek) is also located south of Sandham Rd (running parallel) but is north of the train tracks. To the north and west, the lands consist of residential development.
1966	No apparent changes to the Site.
1975	No apparent changes to the Site. The previously vacant land to the east of Sandham Rd. has been developed into a parking lot.
1985	No apparent changes to the Site.
1997	No apparent changes to the Site.
2007	No apparent changes to the Site.
2017	No apparent changes to the Site.

DRAFT

3 Elmwood Ave. N. - Site "LAK 3"

Year	Notes
1954	Phase 1 ESA Site Assessment Area (Lakeshore Rd. E.) appears to exist as a parking lot, located on the northeast corner of Lakeshore Rd. E. and Elmwood Ave. N., with road access from Elmwood Ave. N. The Site appears to be surrounded by mixed commercial and residential properties on all sides. A large industrial facility appears to occupy a space south of Lakeshore Rd. E. to the shoreline of Lake Ontario, situated east of St. Lawrence Dr. and west of Elmwood Ave. S. (approximately 50 m southwest of the Site). Directly to the east of the Site's property boundary, appears to be a residential property.
1966	The Site appears to have very slightly increased in size (east property boundary seems to have shifted further to the east). The adjacent property to the east of the Site appears to have been redeveloped for commercial or industrial use, with two road access points from Lakeshore Rd. E.
1975	The adjacent property to the east of the Site appears to have been redeveloped again for commercial use, with road access from Woodlawn Ave. A rectangular building appears to occupy most of the western portion of this adjacent property.
1985	No apparent changes to the Site.
1997	The large industrial facility (approximately 50 m southwest of the Site) appears to have been demolished.
2007	The demolished large industrial facility (approximately 50 m) appears to have been redeveloped into a residential subdivision.
2017	No apparent changes to the Site. A nearby commercial residential development has been constructed with frontage along Hurontario St. between Lakeshore Rd. E. and Park St. E. (previously appeared to be different commercial and residential uses).

DRAFT

Elmwood Ave. S. @ Wanita Rd. - Site "ELM_4"

Year	Notes
1954	The Phase 1 ESA Site Assessment Area (Intersection at Elmwood Ave. S. & Wanita Rd.) appears to be a paved "T" intersection in a residential neighbourhood. To the west (approximately 25 m), a large industrial facility exists between Lakeshore Rd. E. and Lake Ontario. To the east, residential subdivision properties exist between Lakeshore Rd. E. and Lake Ontario.
1966	No apparent changes to the Site.
1975	No apparent changes to the Site.
1985	No apparent changes to the Site.
1997	No apparent changes to the Site. The industrial facility to the west appears to have been demolished.
2007	No apparent changes to the Site. The demolished industrial facility to the west appears to have been redeveloped into a residential subdivision.
2017	No apparent changes to the Site.

St Lawrence Park (75 St. Lawrence Dr.) - Site "ELM_5"

Year	Notes
1954	The Phase 1 ESA Site Assessment Area appears to be a portion of Lake Ontario (i.e., not land) and partially portion of a large industrial facility yard. To the north, a large industrial facility exists between Lakeshore Rd. E. and Lake Ontario between St. Lawrence Dr. and Elmwood Ave. S. To the west and south is open water (i.e., Lake Ontario). To the east are residential subdivision properties.
1966	An extended shoreline appears to have been constructed on portion of Site. The newly constructed shoreline area appears to be partially used as an outdoor industrial yard, associated with the large industrial facility to the north.
1975	The shoreline appears to have been enlarged (i.e., the Site) to approximately the size that exists today (2022). No apparent changes to property use.
1985	The shoreline area appears vacant (i.e., no longer appears as outdoor industrial yard). Immediately north of the Site, a building appears to have been demolished. The large industrial facility (north of the Site) appears to be in use.
1997	No apparent changes to the Site. The large industrial facility appears to have been demolished.
2007	A "Waterfront Trail" and grassed area have been constructed at the Site. The demolished industrial facility has been redeveloped into a residential subdivision.
2017	No apparent changes to the Site.

DRAFT

Elmwood Ave. S. @ Carlis Pl. Site - "ELM_6"

Year	Notes
1954	The Phase 1 ESA Site Assessment Area appears to be the southernmost portion of Elmwood Ave. S. To the south is Lake Ontario. To the northwest is a large industrial facility (west of Elmwood Ave. S.) and residential subdivision properties (east of Elmwood Ave. S.) To the east are more residential subdivision properties.
1966	An extended shoreline appears to have been constructed immediately south of the Site. Carlis Pl. appears to have been developed (a small residential street) immediately north of the Site.
1975	No apparent changes to the Site.
1985	No apparent changes to the Site.
1997	No apparent changes to the Site. A building (60 Elmwood Ave. S.) has been developed.
2007	No apparent changes to the Site.
2017	No apparent changes to the Site.

Hiawatha Pkwy @ Wanita Rd. - Site "HIA_7"

Year	Notes
1954	The Phase 1 ESA Site Assessment Area appears to be the intersection of Hiawatha Pwky and Wanita Rd., situated in a residential subdivision area.
1966	No apparent changes to the Site or the surrounding area.
1975	No apparent changes to the Site or the surrounding area.
1985	No apparent changes to the Site or the surrounding area.
1997	No apparent changes to the Site or the surrounding area.
2007	No apparent changes to the Site or the surrounding area.
2017	No apparent changes to the Site or the surrounding area.

Hiawatha Park (76 Cumberland Dr.) - Site "HIA_8"

Year	Notes
1954	The Phase 1 ESA Site Assessment Area appears to include the intersection at Cumberland Dr. and Hiawatha Pkwy, a portion of parkland (south of Cumberland Dr.), and a small building located on the northern portion of the parkland.
1966	No apparent changes to the Site or the surrounding area.
1975	No apparent changes to the Site or the surrounding area.
1985	No apparent changes to the Site or the surrounding area.
1997	No apparent changes to the Site or the surrounding area.
2007	No apparent changes to the Site or the surrounding area.
2017	No apparent changes to the Site or the surrounding area.

DRAFT

DRAFT

APPENDIX D:
CITY DIRECTORY

Date:	9/7/2022	File:	719033
To:	GMBP Team		
From:	Mark Ongarato		
Project:	Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule C Class Environmental Assessment		
Subject:	City Directory Summary		

TECHNICAL MEMO

For the purposes of this memo, the direction “north” means the direction along Hurontario Street toward Highway 403.

The City Directory records were requested alongside the ERIS reports either for individual Sites or groups of Sites depending on location and proximity to other project Sites.

Notes:

- 1955 – 2001 – year(s) the listing appears in the City Directory.
- Items in Blue text represent records returned by the City Directory Report that are considered to indicate the most significant records within the project Study Area and outside of the immediate 100 m study area of each Site.
- Items in Red text represent records returned by the City Directory Report that are considered to indicate the most significant records within the project Study Area and are within the immediate 100 m study area of a particular Site.

Rosemere Rd (and area)

“ROS_1”

Site Address	City Directory Records Description
Site	
182 Rosemere Rd.	Address not Listed – 1966, 1970-1971, 1976, 1981, 1986, 1991, 1996, and 2001
Neighbouring Properties	
N/a	Few nearby residential properties (per air photos)

“ROS_2”

Site Address	City Directory Records Description
Site	
Sandham Road	No Civic Address
Neighbouring Properties	
515 Oriole Ave	Address Not Listed – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000

DRAFT

Lakeshore Rd (and area)

"LAK_3"

Site Address	City Directory Records Description
Site	
3 Elmwood Ave. N.	Address Not Listed – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000
Neighbouring Properties	
20 Rosewood Ave.	Address Not Listed- 1958, 1965 Lions Club Swimming Pool – 1972-73, 1977-78, 1983 Lions Club of Credit Valley, 1977-78 Lions Hall – 1977- 78 Credit Valley Dramatic Society,1989, 1994 Lions Hall Pool – 1989 Lions Hall – 1994 Port Credit Swimming Pool - 1994 Port Credit Pool – 2000
141 Lakeshore Rd. East	St Lawrence Starch Co Ltd – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000 Cape Tileman Co Ltd – 1972-73 Steen Mechanical Contractors – 1972-73 Stone & Webster Canada Ltd. – 1977-78 Residential (1 Tenant) – 1989
150 Lakeshore Rd. East	Babcock Art Service Station – 1958, 1965 Babcock Garage – 1965 Port Credit Car Wash – 1965 Pioneer Auto Centre – 1972-73 Optometry Office – 1977-78 Multi-tenant residential – 1977-78, 1983, 1989, 1994 Pioneer Gas & Wash Centre – 1977-78, 1983 R&L Auto Glazing – 1977-78 Pioneer Petroleums – 1989, 1994, 2000 Promacon Marketing Consultants Ltd – 1989
160 Lakeshore Rd. East	Elmwood Tire Service Ltd – 1958, 1965 Address Not Listed – 1972-73, 2000 G&M Auto Service Centre – 1977-78 Perma-Shine – 1977-78 Wee Rent It Ltd – 1977-78, 1983, 1989 Auto Safety Centre – 1983, 1989 Stephenson's Rent All Centre – 1994
170 Lakeshore Rd. East	Elmwood Motors Ltd – 1958, 1965 Automotive Conversion of Canada – 1965 Credit Valley Motor Leasing Canada Ltd – 1965, 1972-73 Elmwood Motors Ltd Used Car Lot – 1972-73 Address Not Listed – 1977-78, 2000 Elmwood Fruit Market – 1983, 1989, 1994 Elmwood Meat Market – 1983, 1989 La Villa Bakery – 1989, 1997
200 Lakeshore Rd. East	Address not listed – 1966, 1970-1971, 1981, 1996, Port Credit LCBO – 1976, 1986, 1991, 2001
1 Hurontario St.	Address Not Listed – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000
29 Hurontario St.	Residential (1 Tenant) – 1958, 1965, 1977-78, 1989 Residential (2 Tenants) – 1972-73 Address Not Listed – 1983, 1994, 2000
60 Elmwood Ave N	Address Not Listed – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000

DRAFT

Elmwood Ave (and area)

"ELM_4"

Site Address	City Directory Records Description
Site	
Intersection @ Elmwood Ave S and Wanita Rd	No Civic Address
Neighbouring Properties	
141 Lakeshore Rd East	St Lawrence Starch Co Ltd – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000 Cape Tileman Co Ltd – 1972-73 Steen Mechanical Contractors – 1972-73 Stone & Webster Canada Ltd. – 1977-78 Residential (1 Tenant) – 1989
150 Lakeshore Rd East	Babcock Art Service Station – 1958, 1965 Babcock Garage – 1965 Port Credit Car Wash – 1965 Pioneer Auto Centre – 1972-73 Optometry Office – 1977-78 Multi-tenant residential – 1977-78, 1983, 1989, 1994 Pioneer Gas & Wash Centre – 1977-78, 1983 R&L Auto Glazing – 1977-78 Pioneer Petroleums – 1989, 1994, 2000 Promacon Marketing Consultants Ltd – 1989

"ELM_5"

Site Address	City Directory Records Description
Site	
St Lawrence Park (75 St Lawrence Dr.)	Street not listed: 1966, 1970-1971, 1976, 1981, 1986, 1991, 1996, and 2001
Neighbouring Properties	
60 Elmwood Ave S	Address not listed: 1966, 1970-1971, 1976, 1981, 1986, 1991, 1996, and 2001
141 Lakeshore Rd East	St Lawrence Starch Co Ltd – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000 Cape Tileman Co Ltd – 1972-73 Steen Mechanical Contractors – 1972-73 Stone & Webster Canada Ltd. – 1977-78 Residential (1 Tenant) – 1989
150 Lakeshore Rd East	Babcock Art Service Station – 1958, 1965 Babcock Garage – 1965 Port Credit Car Wash – 1965 Pioneer Auto Centre – 1972-73 Optometry Office – 1977-78 Multi-tenant residential – 1977-78, 1983, 1989, 1994 Pioneer Gas & Wash Centre – 1977-78, 1983 R&L Auto Glazing – 1977-78 Pioneer Petroleums – 1989, 1994, 2000 Promacon Marketing Consultants Ltd – 1989

DRAFT

"ELM_6"

Site Address	City Directory Records Description
Site	
Intersection @ Elmwood Ave S and Carlis Pl	No Civic Address
Neighbouring Properties	
44 Elmwood Ave S	Address not listed: 1966, 1970-1971, 1976, 1981, 1986, 1991, 1996, and 2001
60 Elmwood Ave S	Address not listed: 1966, 1970-1971, 1976, 1981, 1986, 1991, 1996, and 2001
141 Lakeshore Rd East	St Lawrence Starch Co Ltd – 1958, 1965, 1972-73, 1977-78, 1983, 1989, 1994, 2000 Cape Tileman Co Ltd – 1972-73 Steen Mechanical Contractors – 1972-73 Stone & Webster Canada Ltd. – 1977-78 Residential (1 Tenant) – 1989
150 Lakeshore Rd East	Babcock Art Service Station – 1958, 1965 Babcock Garage – 1965 Port Credit Car Wash – 1965 Pioneer Auto Centre – 1972-73 Optometry Office – 1977-78 Multi-tenant residential – 1977-78, 1983, 1989, 1994 Pioneer Gas & Wash Centre – 1977-78, 1983 R&L Auto Glazing – 1977-78 Pioneer Petroleums – 1989, 1994, 2000 Promacon Marketing Consultants Ltd – 1989

DRAFT

Hiawatha Pkwy (and area)
"HIA_7"

Site Address	City Directory Records Description
Site	
Intersection @ Hiawatha Pkwy and Wanita Rd.	No Civic Address
Neighbouring Properties	
n/a	Multiple residential properties (per air photos)

Hiawatha Pkwy (and area)
"HIA_8"

Site Address	City Directory Records Description
Site	
Hiawatha Park (76 Cumberland Dr.)	Address not listed: 1966, 1970-1971, 1976, 1981, 1986, 1991, 1996, and 2001
Neighbouring Properties	
n/a	Multiple residential properties (per air photos)

DRAFT

APPENDIX E:
TECHNICAL STANDARDS AND SAFETY AUTHORITY

DRAFT

Joanna Olesiuk - GM BluePlan

From: Public Information Services <publicinformationservices@tssa.org>
Sent: Wednesday, August 10, 2022 2:23 PM
To: Mark Ongarato - GM BluePlan
Subject: RE: 719033 - TSSA Records Check - Port Credit, Mississauga

Please refrain from sending documents to head office. The Public Information (PI) team works remotely, mailing in applications will lengthen the overall processing time.

RECORD FOUND IN CURRENT DATABASE

Hello,

Thank you for your request for confirmation of public information. TSSA has performed a preliminary search of TSSA's current database.

- We confirm that there are records in our current database of fuel storage tanks at the subject address(es).

Inventory Number	Address	City	Province	Postal Code	Status	Asset Cla
10857486	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Propar
11207073	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Liquid
11207096	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Liquid
11207111	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Liquid
11207128	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Liquid
11207142	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Liquid
11207160	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Liquid
11421513	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Liquid
11421534	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Liquid
11421544	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Liquid
11421563	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	EXPIRED	FS Liquid
64523550	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	Active	Liquid Fu
64523552	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	Active	FS Liquid
64523553	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	Active	FS Liquid
64524712	150 LAKESHORE RD E	MISSISSAUGA	ON	L5G 1E9	Active	Propane

DRAFT

This is not a confirmation that there are no records in the archives. For a further search in our archives, please submit an application for release of public information (PI Form) through TSSA's new Service Prepayment Portal. The associated fee must be paid via credit card (Visa or MasterCard) through a secure site.
Please follow the steps below to access the new application(s) and Service Prepayment Portal:

1. Click Release of Public Information - TSSA and click "need a copy of a document";
2. Select the appropriate application, download it and complete it in full; and
3. Proceed to page 3 of the application and click the link TSSA Service Prepayment Portal under payment options (the link will take you the secure site to pay for the release via credit card).

Accessing the Service Prepayment Portal:

1. Select new or existing customer (*if you are an existing customer, you will need your account # & postal code to access your account);
2. Select the program area: AD (Amusement Devices), BPV (Boilers and Pressure Vessels), ED (Elevating Devices), FS (Fuels Services), OE (Operating Engineers) or SKI (Ski Lifts) and click continue;
3. Enter the application form number (obtained from bottom left corner of application form) and click continue;
    a. When selecting the application form number from the drop-down menu, please make sure you select the application that begins with "PI" (i.e. PI-FS, PI-BPV etc.);
4. Complete the primary contact information section;
5. Complete the fees section;
6. Upload your completed application; and
7. Upload supporting documents (if required) and click continue.

Once all steps have been successfully completed, you will receive your receipt via email.
Questions? Please contact TSSA's Public Information Release team at publicinformationservices@tssa.org.
Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind Regards,
Kim

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

DRAFT

From: Mark Ongarato - GM BluePlan <Mark.Ongarato@gmblueplan.ca>
Sent: August 10, 2022 11:27 AM
To: Public Information Services <publicinformationservices@tssa.org>
Cc: Joanna Olesiuk - GM BluePlan <Joanna.Olesiuk@gmblueplan.ca>
Subject: 719033 - TSSA Records Check - Port Credit, Mississauga

[CAUTION]: This email originated outside the organisation.
Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Hello,

I am looking for any information TSSA has on file regarding aboveground or underground fuel (gasoline, diesel, oil, waste oil, etc.) storage tanks at the following addresses in **Mississauga, Ontario:**

- Oriole Ave, 515,
- Rosewood Ave, 20,
- Lakeshore Rd E, 141,
- Lakeshore Rd E, 150
- Lakeshore Rd E, 160
- Lakeshore Rd E, 170
- Hurontario ST, 29,
- Hurontario ST, 1,
- Elmwood Ave N, 3,
- Elmwood Ave N, 60

Thank you,

Mark Ongarato, B.Sc.
Technical Specialist

GM BluePlan Engineering Limited
650 Woodlawn Road West, Block C, Unit 2 | Guelph ON N1K 1B8
t: 519.824.8150 ext. 1292 | c: 226.821.3609
mark.ongarato@gmblueplan.ca | www.gmblueplan.ca

N O T I C E - This message from GM BluePlan Engineering Limited is intended only for the use of the individual or entity to which it is addressed and may contain information which is privileged, confidential or proprietary. Internet communications cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, arrive late or contain viruses. By communicating with us via e-mail, you accept such risks. When addressed to our clients, any information, drawings, opinions or advice (collectively, "information") contained in this e-mail is subject to the terms and conditions expressed in the governing agreements. Where no such agreement exists, the recipient shall neither rely upon nor disclose to others, such information without our written consent. Unless otherwise agreed, we do not assume any liability with respect to the accuracy or completeness of the information set out in this e-mail. If you have received this message in error, please notify us immediately by return e-mail and delete the message from your computer systems.

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

DRAFT

APPENDIX F:
REGION OF PEEL SPILL RECORDS

DRAFT

Environmental Control Incident Report

1

Customer Service # : 84411

Date: yyyy-mm-dd

[X] Spill [ ] Complaint [ ] Gas Alarm | 2002 | 12 | 23 | Incident # 02 - 573

Location	Rosemere Pumping Station
Material	Sanitary sewage
Reported By	Answering Service
	(905) 791 - 7800

Resource	Dispatched	Arrival	Departure	Off Duty
Kevin Parkes	18 : 57	19 : 40	23 : 15	12 : 00
System Operations	:	:	:	:
Plant Operations	:	:	:	:
	:	:	:	:
	:	:	:	:

Vehicle 1	Vehicle 2
Owner	Owner
Address	Address
Insurance Co.	Insurance Co.
Policy No. Plate No.	Policy No. Plate No.

Owner	Controller
Name Region of Peel - Elvis Oliveira	Name
Address 10 Peel Centre Drive, Brampton	Address
L6T 4B9 Telephone No.	Telephone No.

Billing [ ] No [X] Owner [ ] Controller

Reg.: _____ OT: 5 DT: _____ km: 50

Region Materials & Services: Bags of sorbant [ ] Absorb. Pads [ ] Absorb.Pillows [ ]

Lge. Booms [ ] Sml. Booms [ ] Other: _____

Contracted Services [X] No _____

DRAFT

Investigation/Action/Status

A forced main break caused the discharge of sanitary sewage onto the property of the Rosemere Pumping Station. An unknown volume had reached the Kennoli Creek, which runs into the Credit River. All appropriate Regional staff and Councillors were notified of the spill and later updated as site remediation and repairs progressed. SAC was notified at 10:54 p.m. and updated the following morning. The Credit Valley Conservation Authority was also notified. System Operations staff took all necessary action to contain the spill, remediate the site and repair the main.

Clean-up/Disposal

☐ Owner ☐ Carrier ☐ Tennant ☒ Region ☐ Other _____

Disposal Method: Vactor truck and repair of main (System Operations)

Emergency Generator No.: _____

Restoration Required: _____

Landfill Gas Levels

	Time	Total Gas	No Methane	Time	Total Gas	No Methane	Time	Total Gas	No Methane	Time	Total Gas	No Methane
Basement												
1st Level												
2nd Level												
3rd Level												
4th Level												

New Gas Alarm Installed: If yes, date:

Prepared By:

Inspector, EC: Kevin Parkes

Date: yyyy-mm-dd 2003 01 07

DRAFT

Environmental Control Incident Report

Customer Service # : 1542122

[x] Spill [ ] Complaint [ ] Alarm

Date of Incident: yyyy-mm-dd: 2011 09 01

Incident # 1 1 - 289

Location	17 Elmwood Road South, Mississauga
Material/Amount	Grout in storm drain
Reported By	Anonymous
	(905) 791 - 7800

Resource & Date	Dispatched	Arrival	Departure	Off Duty
Bill Ford	15 : 30	16 : 00	16 : 30	17 : 30
	:	:	:	:
	:	:	:	:
	:	:	:	:
	:	:	:	:
	:	:	:	:

Investigation/Action/Status

A resident complained that a contractor doing stonework on a home was dumping the material in a catchbasin. An employee of Astonia Stone facing, Paul Denison, said they had place the material in the private side drain after cleaning out a mixing drum. The material had not left the private side and was immediately cleaned up by the contractor after I informed him of the potential issues with grout having a pH of 13.

Follow Up Required Yes [ ] No [x]

Vehicle 1	Vehicle 2
Owner	Owner
Address	Address
Insurance Co.	Insurance Co.
Policy No. Plate No.	Policy No. Plate No.

Owner	Controller
Name	Name
Address	Address
Telephone No.	Telephone No.

DRAFT

Billing [x] **No** [ ] **Owner** [ ] **Controller**

Reg: 1 **OT:** _____ **DT:** _____ **km:** 30

Region Materials & Services: **Bags of sorbant** [ ] **Absorb. Pads** [ ] **Absorb.Pillows** [ ]

Lge. Booms [ ] **Sml. Booms** [ ] **Other:** _____

Contracted Services [ ] **No** _____

Agencies Notified:	**Date/Time/Initial Contact:**		**Date/Time/Initial Contact:**
[ ] **MOE**		[ ] **City of Mississauga**	
[ ] **City of Brampton**		[ ] **Town of Caledon**	
[ ] **South Peel/OCWA**		[ ] **Peel Health**	
[ ] **City of Toronto/Humber**		[ ] **Credit Valley Conservation**	
[ ] **Toronto Reg.Conser.**		[ ] **Halton Reg.Conser.**	
[ ] **Environment Canada**		[ ] **TSSA/Fuel Safety**	
[ ] **Other**			

Councillors Notified: _____ **Staff Notified:** _____

Clean-up/Disposal

[x] **Owner** [ ] **Carrier** [ ] **Tenant** [ ] **Region** **Other** _____

Disposal Method: bucket out the drain onto the private side

Emergency Generator No: _____

Restoration Required: _____

Prepared By: **Bill Ford**

Date Report Prepared: yyyy-mm-dd

2011 09 12

DRAFT

Region Of Peel
10 Peel Centre Drive
Brampton, ON L6T-4B9
(905)791-7800

No Report - Complaint - Incident # 20-194

Service Request Detail

Report Date 2020-05-19 10:21 AM **Submitted By** Page 1

Service # 3443923
Problem ECSP2 COMPLAINTS (ENVIRONMENTAL CONTROL)

Address HIAWATHA PKY
MISSISSAUGA ON

Call Date 2020-04-30 10:25
Taken By 45203 RAVINDRAN, PUVANA
Source
☐ **Customer Contact Requested**

Priority HIGH HIGH **Duration of Call** 00:00
Responsibility ESPL ENVIRONMENTAL CONTROL (PEEL) **Calls** 1
Project
Budget #

Service Request Progress

Schedule	(resolved)
Inspect	Not inspected with no due date. Assigned to 54668 TONY DI CRISTOFARO.
Resolve	Resolved at 2020-04-30 10:25 AM with code R REGION. Additional work orders are required.

Location HIAWATHA & CUMBERLAND, MISSISSAUGA

Area
District
Parcel
Template Type
Asset

Sub-Area
Map # 7
A/P #

Primary Caller

Name SAMANTHA
First,MI ,
Address

Title

City
State/Province
Country
E-Mail
Day Phone (416)896-3799 x
Call Date 2020-04-30 10:25
Comments
Gasoline spill and smell

☐ **Foreign**

ZIP/PC
Reference #

Evening Phone
Taken By 45203

Call List

There are no additional callers for this service number

Inspected					Resolution				
By		Date		Time	Code		Date	Time	

Scheduled Resources

Employee ID	Scheduled Start	Scheduled End	Work Description
No resources scheduled.			

Equipment ID	Scheduled Start	Scheduled End	Work Description
No resources scheduled.			

Vehicle ID	Scheduled Start	Scheduled End	Work Description
No resources scheduled.			

DRAFT

Environmental Control Incident Report 4

Customer Service # : 3444073 Date of Incident: yyyy-mm-dd

☐ **Spill** ☒ **Complaint** ☐ **Alarm**

2020	04	30	WARD: M 1	20-200

Location	Hiawatha Parkway (south of lakeshore Rd.) Mississauga
Material/Amount	Possible gasoline spill
Reported By	SAC-Jerome (416) 325 - 3000

Resource & Date	Dispatched	Arrival	Departure	Off Duty
Tony Di Cristofaro	17 : 47	18 : 48	19 : 05	19 : 30
	:	:	:	:
	:	:	:	:
	:	:	:	:

Investigation/Action/Status

The second complaint of the day for this road, of gasoline or an oil spill on the road. In the morning it was checked by B. Ford and the road was clear. I checked in the early evening as the rain showers had ended and the road was clear and no noticeable oil or gasoline spill on the road was evident. SAC reference # 8730-BP6LCS.

Source Water Protection Details

WHPA: ☐ YES ☐ NO **Wellfield:** **IPZ:** ☐ 1 ☐ 2 ☐ 3

Which WHPA did spill occur in: ☐ A ☐ B ☐ C ☐ D ☐ E ☐

Did the spill enter a nearby body of water, if yes which one

Cause of Spill:

Please provide sketch of spill area on supplemental form

Follow Up Required ☐ **Yes** ☒ **No**

Vehicle 1	Vehicle 2
Owner	**Owner**
Address	**Address**
Insurance Co.	**Insurance Co.**
Policy No. **Plate No.**	**Policy No.** **Plate No.**

Owner	Controller
Name City of Mississauga	**Name**
Address	**Address**
Telephone No.	**Telephone No.**

DRAFT

Billing [X] **No** [ ] **Owner** [ ] **Controller**

Reg: _____ **OT:** 1.5 **DT:** _____ **km:** 20

Region Materials & Services: **Bags of sorbant** [ ] **Absorb. Pads** [ ] **Absorb.Pillows** [ ]

Lge. Booms [ ] **Sml. Booms** [ ] **Other:** _____

Contracted Services [ ] **No** _____

Agencies Notified: **Date/Time/Initial Contact:** **Date/Time/Initial Contact:**

[X]	MOECC	April 30/20 6:20 pm Jerome	[ ] City of Mississauga	
[ ]	City of Brampton		[ ] Town of Caledon	
[ ]	South Peel/OCWA		[ ] Peel Health	
[ ]	City of Toronto/Humber		[ ] Credit Valley Conservation	
[ ]	Toronto Reg.Conser.		[ ] Halton Reg.Conser.	
[ ]	Environment Canada		[ ] TSSA/Fuel Safety	
[ ]	Other		[ ] WQ&C/SWP	

Councillors Notified: _____ **Staff Notified:** _____

Clean-up/Disposal

[ ] **Owner** [ ] **Carrier** [ ] **Tenant** [ ] **Region** [ ] **Other** _____

Disposal Method: N/A

Emergency Generator No: _____

Restoration Required: _____

Prepared By: **Tony Di Cristofaro**

Date Report Prepared: yyyy-mm-dd

2020	05	11

[ ] Check if Supplimentary Form Included

DRAFT

Incident Number	Date	Location	Mun.
99-232	1999-07-26	Hiawatha and Cumberland Drive.	M
07-266	2007-08-23	Elmwood Drive 16	M
08-327	2008-10-16	Rosewood Avenue 20	M
10-200	2010-06-18	Rosewood Avenue 20	M

DRAFT

Description
Sewage
Cement washout on road
Medical waste (needles etc.)
Underground oil tank found while digging

DRAFT

Comments	Type
Pumped out catchbasin and disposed into sanitary sewer. Left sorbent.	Spill
Called C of M to clean road cb; called SAC	Spill
C of M By-law initiated the clean up of affected cb	Spill
C of M owns the property	Complaint

DRAFT

APPENDIX G:
FREEDOM OF INFORMATION RECORDS

DRAFT

uestions, please contact Mai Tang at 437-996-8412 or Mai.Tang@ontar

Mansoor, Saima (MECP)

From: Dufresne, Tina (MECP)
Sent: September-13-22 8:55 AM
To: chris.perera@peelregion.ca; michelle.charbonneau@mississauga.ca; environmental@peelregion.ca; jennifer.dougherty@cvc.ca; kerry.mulphsingh@cvc.ca; Singh, Amanjot
Cc: Irwin, Stephanie (MECP); Morley, Andrew (MECP); Wild, Loralyn (MECP); Kaiser, Aseel (MECP); Roelofsen, Sean (MECP)
Subject: Report of Algal Mat in Lake Ontario, St Lawrence Park Shoreline, Mississauga
Attachments: Fact Sheet - Information for drinking water system owners and operators - August 2014 - PIBS 9735e.pdf; Fact Sheet - Information About Blue Green Algae - English - PIBS 9734e.pdf

cess and Privacy Office

Hello,

The Halton-Peel District Office of the Ministry of the Environment, Conservation and Parks attended at St. Lawrence Park in Mississauga on the evening of September 12, 2022 and observed what appeared to be a black algal mat along the Lake Ontario shoreline.

Ministry staff collected water samples for algal toxin analysis. It is unknown if this is blue-green algae, though it does not appear to be blue-green algae.

For general information on blue-green algae, please refer to the Ministry of the Environment, Conservation and Parks' website at Blue-green algae | ontario.ca and the fact sheets attached.

If anyone contacts you with general questions, please refer them to these fact sheets and the link above. If anyone receives health related questions, please refer them to their physician or Peel Region Public Health Unit.

The Ministry will update you once we obtain further information. If you have any questions, please do not hesitate to contact me at this email address or at 289-242-3934.

Yours truly,

Tina Dufresne (she/her)
District Manager
Halton Peel District
Ministry of the Environment, Conservation and Parks

We want to hear from you. Please tell us about the quality of your interaction with our staff. You can provide feedback at 1-888-745-8888.

DRAFT

Pages 2 to / à 13

are withheld pursuant to section

sont retenues en vertu de l'article

22

of the Freedom of Information and Protection of Privacy Act

de la Freedom of Information and Protection of Privacy Act

DRAFT

Dufresne, Tina (MECP)

From: Central Region Issues (MECP)
Sent: September 13, 2022 10:14 AM
To: Dufresne, Tina (MECP); Hetherington, Stephen (MECP); Plourde, Denise (MECP); Kaiser, Aseel (MECP)
Cc: Central Region Issues (MECP)
Subject: FW: Information Email - Environmental Response Person call-out - Black Material, Lake Ontario Shoreline, Port Credit

Thank you for the quick turn around on the item this morning. ADMO-approved Info Email for your records.

Matthew Dmytrenko · 705-305-4728 · matthew.dmytrenko@ontario.ca

---

From: Porter, Lindsay (MECP) <Lindsay.Porter@ontario.ca>
Sent: Tuesday, September 13, 2022 09:52
To: Zhao, Simon (MECP) <Simon.Zhao@ontario.ca>; @MECP-CB-ISS <ENE-CB-ISS@ene.gov.on.ca>
Cc: Thomas, Sandra (MECP) <Sandra.Thomas@ontario.ca>; Marshall, Gillianne (MECP) <Gillianne.Marshall@ontario.ca>; Central Region Issues (MECP) <Central.Region.Issues@Ontario.ca>; Gauthier, Shannon (MECP) <Shannon.Gauthier@ontario.ca>
Subject: Information Email - Environmental Response Person call-out - Black Material, Lake Ontario Shoreline, Port Credit

Hello Simon & Comms,

Please see the Information Email below for a the Environmental Response Person call-out to a report of black material on the shoreline of Lake Ontario at Port Credit, reported in to the ministry on the evening of September 12, 2022.

Ministry staff attended the site on September 12, 2022 and observed some black fibrous material, appearing to be black mat algae in water along the shoreline, approximately 80m in length. Water samples were collected at the beach area. Six dead fish were observed; the fish were heavily decayed and no specimens were collected. Analytical results from the sampling will be shared with the local public health unit once available. There was no media presence on site.

If there are any questions, please let me know.

Thank you,

Lindsay Porter
(647) 299-8595

Information Email
ERP Response to Black Material Along Lake Ontario Shoreline,
St. Lawrence Park, 75 St. Lawrence Drive, Port Credit, Mississauga
September 13, 2022

What Happened?

- On Monday, September 12, 2022, the Ministry of the Environment, Conservation and Parks (MECP) Spills Action Centre (SAC) received a complaint of black material building up along the Port Credit Marina. The complainant reported they detected a sewage odour and observed dead salmon and dead seagulls.

What Action was Taken?

- The MECP's Environmental Response Person (ERP) arrived on-site at about 7:13 pm.
- A mild musty odour was detected. Black fibrous material, appearing to be black mat algae was observed in water, along the shoreline, on the west and east edges of a sandy beach area.
- The eastern section of the beach was more impacted than the western section. The impacts located along the eastern section were approximately 80 meters in length. Further east, the lake water was clear.
- Water samples were collected at the beach area.
- Six dead fish were observed. The fish were heavily decayed and no specimens were collected. No dead birds were observed.
- No media were on-site.
- Notification of the algal mat and sampling was provided to the Region of Peel, Region of Peel Public Health Unit, City of Mississauga, and Credit Valley Conservation Area on September 13, 2022.

Who Attended?

- Ministry of the Environment, Conservation and Parks

Potential Environmental Impact?

- A material appearing to be black mat algae was observed in Lake Ontario.

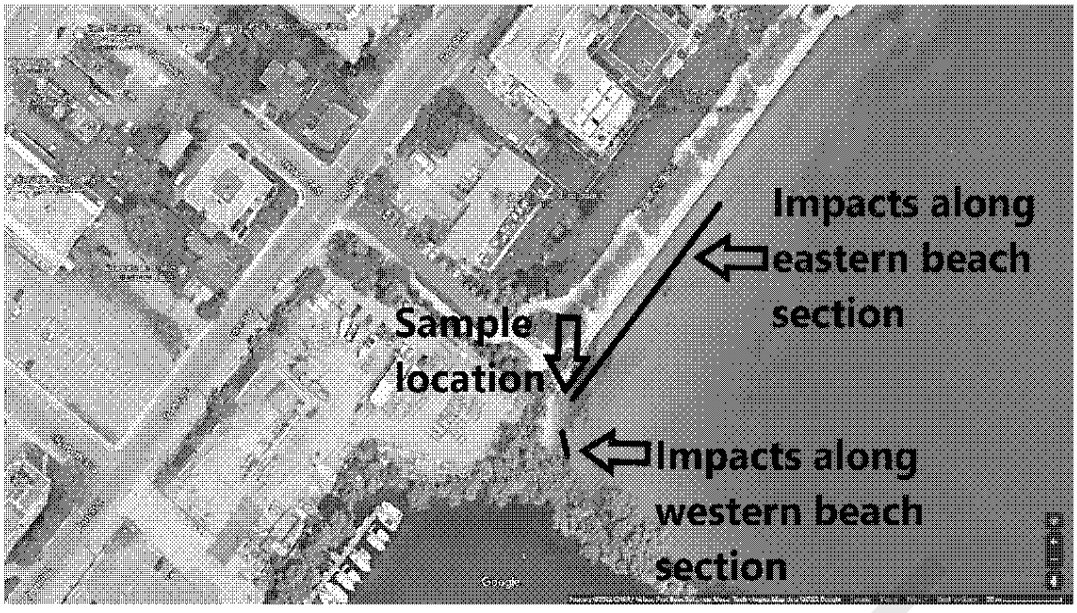
Source Water Protection

- The issue is located in the Credit Valley Source Protection Area.
- The area is not located in a Wellhead Protection Area or an Intake Protection Zone.

Next Steps:

- The samples will be delivered to the lab on September 13, 2022 and analysis results will be provided to the Region of Peel Public Health when available.

DRAFT


Impacts along eastern beach section
Sample location
Impacts along western beach section

DRAFT

Ontario

Ministry of the Environment, Conservation and Parks
Ministère de l'Environnement, de la Protection de la nature et des Parcs

INCIDENT REPORT

Reference Number:	1582-BRKMHG	**Module Type:**	Pollution Incident Report (PIR)
Status:	Closed	**File Storage Number:**	SI HP MS ST 100
Program:	Water - Ground & Surface	**Activity:**	Pollution Incident Reports

Caller or PO Reporting/Receiving Information

First Name:	**Last Name:**
Simon	Howe
Name of Company:	

MAILING ADDRESS			
Civic Address:		**Unit Identifier:**	
Delivery Designator:		**Delivery Identifier:**	
Municipality/ Unorganized Twp:	**County/District:**	**Province/State:**	**Postal Code:**
(1)		Ontario	
Postal Station:		**Country:**	Canada
Telephone Number:	**Extension:**	**Other Number:**	**Email Address:**
289-707-5685		**Fax**	

Date Reported to MOE:	2020/07/16	**Time Reported to MOE:**	12:37

Date of Incident:	2020/07/16	**Time of Incident:**	12:37
Incident Date Confirmation:	Actual		

Client(s)

Client Details

DRAFT

Site(s)

Site Details
St. Lawrence Park at Helen Street South<UNOFFICIAL> Address: Lot: , Part: , 75 St. Lawrence Drive, Mississauga, City, Regional Municipality of Peel District Office: Halton-Peel

Incident Summary:
MOE TIPS: black substance discharging to Lake Ontario

Initial Incident Description (as reported):

Created: Nicholas Lymer (Spills Action Centre) - 2020/07/16 12:37:31 PM

s.21

Caller to report [redacted] is at the St. Lawrence Park in Port Credit and sees a black substance coming out of a stone pipe (likely the stormwater outfall located at the western area of the park). It is watery, changing the color of the rocks from brown to black and the color of the water to a silver color. There is one dead fish (approx 60cm long) and one dead bird. SAC requested to know if there are any odours and the caller stated there is a sulphuric almost decaying smell, but it may be contributed to the dead wildlife. Caller advised that there are some swans swimming nearby. SAC inquired if the discharge is complete or ongoing and the caller stated that the outfall is still actively running, but [redacted] cannot confirm if it is just water running or more of the black substance. SAC provided IR#, MOE TIPS for a photo.

Caller is requesting to have follow-up from the local officer if possible. Caller gives permission for SAC to give [redacted] name and number to responding agencies.

12:48 SAC(nl) to RoP (905-791-7800 ext 3101) - Puvana; briefed. SAC provided [redacted] (original caller) contact info for responding officer Paul Theodorlis to assist finding the exact location of the outfall. SAC provided IR#, requested to be called back with Pauls assessment.

12:55 SAC(nl) to MECP HP (905-319-8292) - left vm with Nick Fowler requesting a call back.

13:05 Nick Fowler (MECP HP (905-319-8292) to SAC(nl) - briefed. SAC to update Nick after RoP provides assessment.

13:16 SAC(nl) attached photos received via MOE TIPS (see below).

13:17 SAC(nl) to ECCC (8662832333) - briefed.

13:29 SAC(nl) e-mailed report to ECCC.

15:21 SAC(nl) to RoP (905-791-7800 ext 3101) - Puvana; confirmed Paul Theodorlis is on site, requested to speak with him. Puvana tried to transfer but Paul did not answer. Puvana will instruct Paul to call SAC back as soon as she hears from him.

15:33 Paul Theodorlis to SAC(nl). Paul did find the outfall at the foot of Helen Street South. The water is clear and colorless going in to Lake Ontario. The rocks are black/silver and a bit of a small but it could be some of the debris blocking the outfall. There is one dead fish on the shoreline that appears to be a couple weeks old. Paul doesnt know what the discoloration is or how long it has been there. City of Mississauga was on site earlier but they did not find this outfall, he will speak with CoM public works Eric Cameron to see if they can investigate within the storm sewers. Paul checked upstream for staining on asphalt near catchbasins and did not see anything, but did not pop open any cbs. SAC requested that Paul ask Eric Cameron to notify SAC with their action plan after the two of them speak. SAC provided IR#.

15:40 SAC(nl) to Nick Fowler (MECP HP, 905-319-8292) - briefed.

15:47 Eric Cameron (City of Mississauga Public Works) to SAC(nl). He will have road patroller pop a couple manhole lids in the area. He knows there is some remedial work 65 Port Street E but this is likely too far away. SAC to be updated with roads assessment.

15:50 SAC(nl) to Trevor Swift (905-615-3200, ext 8358). Left vm as a precaution, left IR# and general brief.

DRAFT

17:14 SAC(nl) to City of Mississauga Works ((905) 615-3000) - requesting update. Their staff are still on route to site. SAC to be updated.

SAC(nl) handed to SAC(mp)

20:30 SACmp to Mississauga Works (905 615-3000) – SACmp requesting update. Dispatch was unaware of the incident, passed to Roland, 647-861-2945.
- The source was not found, the CB, and they found nothing. Caller checked based on a map Eric Cameron provided, at Helena and port street, checked the requested manholes. There was nothing found. The water looked black, but caller did not think it had anything to do with the incident and looked clear coming from the inlet. Caller attended at 19:20. Supervisor stated they will check again tomorrow morning, no ETA provided. SACmp requested to be updated tomorrow.

July17, 2020
08:03 Eric (Mississauga Works) to SAC(ck): As of this morning, they are on site at the outfall. The water was running clear. As there is some organics and other debris decomposing, it is causing a bit of sulfur odour and some discolouration. A pollutant is not suspected, as there is confirmed natural organic decomposition. The flow will settle out as all the water inspected during the event was running clear. No further updates expected.

SAC Action Class:	
Non-Standard Procedure:	No

Incident Description:
Last update: David M Keene (Halton-Peel District Office) - 2020/07/20 10:21:26 AM
2020/07/20 - DK - The issue was investigated by both the Region of Peel and the City of Mississauga, who determined that there is decomposing organic matter at the outfall and will not be following up further. No action required by the ministry at this time. Recommend close.

Incident Description Continuation:
Not Available

Incident Update:
Not Available

Was there an MOE field response?	No
Were there samples collected / analyzed at any time?	No
Health / Environmental Consequences at the Time of Incident	
Health / Environmental Consequences:	0 - No Impact

DRAFT

Has a Water Body been impacted?	
Receiving Environment:	
Incident Event:	
Incident Reason:	
MOE/Other Agencies Involved:	
Was there a discharge / emission / spill of a contaminant to the environment?	
No	

Attachments:	
Attachments Names:	1582-BRKMHG.msg
Links & Comments:	

Environmental Compliance Reporting (ECR)

Is this an air emission (measured or modelled) or wastewater (sewage) discharge exceedance that will become part of the Environmental Compliance Report? (legislation, certificate of approval, order, or guideline)
No

Voluntary / Mandatory Abatement

Was there Non-Compliance/Non-Conformance Identified?	○ Yes ● No

Voluntary / Mandatory Abatement Items
Not Available

Waste / EGR Information

Waste / EGR Information entries:
Not Available

Document Related Information

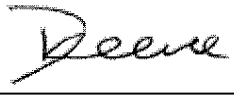
Cross Reference:	(doc link)	Task Link:	3674-BRKMQ6
Originating Document:		Created by:	Nicholas Lymer
Date Created:	2020/07/16	Date Completed:	2020/08/12
Office Receiving Incident Report:	Spills Action Centre	Incident Info Received By:	Nicholas Lymer

DRAFT

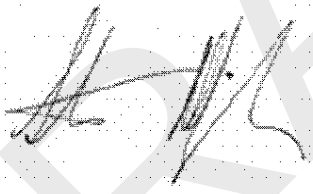
Bring Forward Date:		Bring Forward Reason:	

Signatures

Provincial Officer:

Name:	David M Keene
Badge No:	1622
Work Unit:	
District/Area Office:	Halton-Peel District Office
Date:	2020/07/20
Signature:	

Issues Project Coordinator:

Name:	Steven Allingham
Work Unit:	
District/Area Office:	
Date:	2020/08/12
Signature:	

DRAFT

Mansoor, Saima (MECP)

From: Simon Howe <simonhowe99@gmail.com>
Sent: July-16-20 12:48 PM
To: Tips, MoE (MECP)
Subject: 1582-BRKMHG
Attachments: 20200716_122354.jpg

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi
Thanks for taking the time to track this down. Hopefully nothing serious!

Regards
Simon

DRAFT

Ontario

Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

INCIDENT REPORT

Reference Number:	7231-A6HHXK	**Module Type:**	Condition of Operation
Status:	Closed	**File Storage Number:**	SI PL MI RO 421
Program:	Sewage - Municipal	**Activity:**	Notifications

Caller or PO Reporting/Receiving Information

First Name:	**Last Name:**
Robert	Daw
Name of Company:	
Region of Peel	

MAILING ADDRESS			
Civic Address:		**Unit Identifier:**	
Delivery Designator:		**Delivery Identifier:**	
Municipality/ Unorganized Twp:	**County/District:**	**Province/State:**	**Postal Code:**
(1)		Ontario	
Postal Station:		**Country:**	Canada
Telephone Number:	**Extension:**	**Other Number:**	**Email Address:**
647-621-1361			

Date Reported to MOE:	2016/01/25	**Time Reported to MOE:**	08:35

Date of Incident:	2016/01/25	**Time of Incident:**	
Incident Date Confirmation:	Actual		

Client(s)

Client Details
The Regional Municipality of Peel, Business/Facility Name: Peel Regional Police Headquarters Mailing Address: 7750 Hurontario St, Brampton, Ontario, Canada, L6V 3W6 Physical Address: 7750 Hurontario St, Brampton, City, Regional Municipality of Peel, Ontario, Canada, L6V 3W6 Telephone: (905)453-2121, Extension: 4270, email: robert.johnson@peelpolice.ca

DRAFT

Client #: 8574-4Z9NVW, Client Type: Municipal Government, NAICS: 913130

Site(s)

Site Details
G.E. Booth (Lakeview) Wastewater Treatment Plant Address: 1300 Lakeshore Rd E, Mississauga, City, Regional Municipality of Peel, L5E 1E9 District Office: Halton-Peel GeoReference: Zone: 17, UTM Easting: 617223, UTM Northing: 4825838, , LIO GeoReference: Zone: 17, UTM Easting: 617249.8, UTM Northing: 4826087.0, Latitude: 43.578526, Longitude: -79.547806 Site #: 7601-4GQQHG + + + + Rosemere PS<UNOFFICIAL> Address: Lot: , Part: , 182 Rosemere Rd, Mississauga, City, Regional Municipality of Peel District Office: Halton-Peel

Incident Summary:
DWMD Region of Peel: Rosemere PS Generator Being Replaced

Initial Incident Description (as reported): Created: Neil Hamilton (Spills Action Centre) - 2016/01/25 08:35:10 AM
Caller to SACnh reports: -They are going to be taking the back up generator down for maintenance to make a TSSA upgrade. -While this generator is down they will have a back up on stand-by as a contingency. -The PS will continue to remain in normal operation while the work is being completed so there is no threat or concern for any sewage discharge. -The time line for the work to be completed is 72h. They will commence work at 0900h. -Caller will update if there are any issues and when the work is completed. -IR# Provided.

SAC Action Class:	Notifications
Non-Standard Procedure:	No

Incident Description: Last update: Shelley Yeudall (DWMD Halton-Peel Office) - 2016/02/01 01:10:45 PM
Shelley Yeudall update, no further action required - File closed.

Incident Description Continuation:
Not Available

Incident Update:

DRAFT

Akiko Date - 2016/01/27 created; 2020/09/19 last update - Spills Action Centre
Robert Daw updates that the updgrade was completed and the generator is back on line as of 08:00 this morning.

Was there an MOE field response?	No
Were there samples collected / analyzed at any time?	No
Health / Environmental Consequences at the Time of Incident	
Health / Environmental Consequences:	1 - Administrative

Has a Water Body been impacted?	No
Receiving Environment:	
Incident Event:	
Incident Reason:	
For Sewage programs, what effluent types are being assessed?	Stormwater
MOE/Other Agencies Involved:	Province - MOE-District Office
Was there a discharge / emission / spill of a contaminant to the environment?	
No	

Environmental Compliance Reporting (ECR)

Is this an air emission (measured or modelled) or wastewater (sewage) discharge exceedance that will become part of the Environmental Compliance Report? (legislation, certificate of approval, order, or guideline)
No

Voluntary / Mandatory Abatement

Was there Non-Compliance/Non-Conformance Identified?	○ Yes ● No

Voluntary / Mandatory Abatement Items
Not Available

Waste / EGR Information

Waste / EGR Information entries:
Not Available

DRAFT

Document Related Information

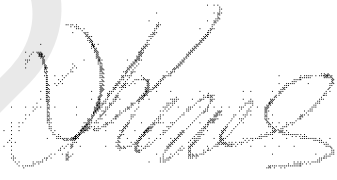
Cross Reference:	(doc link)	**Task Link:**	3655-A6HJ5R
Originating Document:		**Created by:**	Neil Hamilton
Date Created:	2016/01/25	**Date Completed:**	2016/03/01
Office Receiving Incident Report:	Spills Action Centre	**Incident Info Received By:**	Neil Hamilton
Bring Forward Date:		**Bring Forward Reason:**	

Signatures

Provincial Officer:

Name:	**Shelley Yeudall**
Badge No:	**881**
Work Unit:	**Central Region**
District/Area Office:	**DWMD Halton-Peel Office**
Date:	**2016/02/01**
Signature:	

Supervisor:

Name:	**Demetra Koros**
Work Unit:	**Central Region**
District/Area Office:	**DWMD York Durham Office**
Date:	**2016/03/01**
Signature:	

DRAFT

TECHNICAL SUPPORT PROJECT

Reference Number:	1735-B3PPAK	**File Storage Number:**	EA 01-03
Module:	Technical Support	**Project Type:**	External to the MOE
Cross Reference:			
Originating Document:		**Created by:**	Trevor Bell
Date Created:	2018/08/16	**Date Completed:**	2018/09/10
Status:	Closed		

Client(s)

Client Details
The Regional Municipality of Peel Mailing Address: 10 Peel Centre Dr Suite B, Brampton, Ontario, Canada, L6T 4B9 Physical Address: 10 Peel Centre Dr Suite B, Brampton, City, Regional Municipality of Peel, Ontario, Canada, L6T 4B9 Telephone: (905)791-7800, Extension: 7918, email: simon.hopton@peelregion.ca Client #: 8724-6UYNKH, Client Type: Municipal Government, NAICS: 913910, 237110 Additional Address Info: Suite B

Site(s)

Site Details
Rosemere Road SPS<UNOFFICIAL> Address: Lot: , Part: , 182 Rosemere Road, Mississauga, City, Regional Municipality of Peel District Office: Halton-Peel + + + + Indian Road SPS<UNOFFICIAL> Address: Lot: , Part: , 397 Temagami Crescent, Mississauga, City, Regional Municipality of Peel District Office: Halton-Peel

Review Details

Project Description:	Schedule B Municipal Class EA		
Project Name:	Indian Road and Rosemere Road Sewage Pumping Stations Replacements		
Project Type:	External to the MOE		
Due Date:	2018/09/10		

Attachment Names:	study-report-indian-road.pdf

DRAFT

DRAFT

Ontario

Ministry of the Environment, Conservation and Parks
Ministère de l'Environnement, de la Protection de la nature et des Parcs

ENVIRONMENTAL COMPLIANCE APPROVAL
NUMBER 3043-BMVPEE
Issue Date: April 14, 2020

The Regional Municipality of Peel
10 Peel Centre Drive
Brampton, Ontario
L6T 4B9

Site Location: 182 Rosemere Road
City of Mississauga, Regional Municipality of Peel

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

the following equipment and emission sources at the Rosemere Road Sewage Pumping Station:

- one carbon adsorption unit, to control odourous emissions from the wet well, having a removal efficiency of 99.5%, equipped with a total of 1.1 cubic metres of activated carbon media and activated alumina media impregnated with sodium permanganate, discharging to the air at a maximum volumetric flow rate of 0.43 cubic metre per second through a stack (ID: OCU) having an exit diameter of 0.25 metre, and extending 5.3 metres above grade;

- one (1) gooseneck vent (ID: G2), serving the wet well, discharging passively to the air, having an exit diameter of 0.15 metre, and located 0.9 metre above grade;

- one (1) gooseneck vent (ID: G3), serving the sewage overflow chamber, discharging passively to the air, having an exit diameter of 0.15 metre, and extending 0.9 metre above grade;

all in accordance with the Environmental Compliance Approval Application submitted by The Regional Municipality of Peel, dated May 14, 2019, and signed by Jimmy Chong, Project Manager, The Regional Municipality of Peel; the supporting Emission Summary and Dispersion Modelling Report prepared by Independent Environmental Consultants, dated April 8, 2019, and signed by Kim Theobald; the supporting Acoustic Assessment Report prepared by Independent Environmental Consultants, dated April 9, 2019, and signed by Nick Shinbin; and the additional information submitted by Mateusz Lewandowski, Cole Engineering Group Ltd. via email dated March 19, 2020.

For the purpose of this environmental compliance approval, the following definitions apply:

DRAFT

1. "*Acoustic Assessment Report*" means the report, prepared in accordance with *Publication NPC-233,* by Nick Shinbin of Independent Environmental Consultants and dated April 9, 2019 submitted in support of the application, that documents all sources of noise emissions and *Noise Control Measures* present at the *Facility;*

2. "*Approval*" means this Environmental Compliance Approval, including the application and supporting documentation listed above;

3. "*Company*" means The Regional Municipality of Peel, that is responsible for the construction or operation of the *Facility* and includes any successors and assigns;

4. "*District Manager*" means the District Manager of the appropriate local district office of the *Ministry,* where the *Facility* is geographically located;

5. "*EPA*" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19, as amended;

6. "*Exhausted*" means the capacity of the *Equipment* to adsorb emissions is reached and the *Equipment* is no longer able to effectively reduce emissions;

7. "*Equipment*" means the activated carbon adsorption unit described in the *Company's* application, this *Approval* and in the supporting documentation submitted with the application, to the extent approved by this *Approval;*

8. "*Facility*" means the entire operation located on the property where the *Equipment* is located;

9. "*Manual*" means a document or a set of documents that provide written instructions to staff of the *Company;*

10. "*Ministry*" means the ministry of the government of Ontario responsible for the *EPA* and includes all officials, employees or other persons acting on its behalf;

11. "*Noise Control Measures*" means measures to reduce the noise emissions from the *Facility* and/or *Equipment* including, but not limited to, silencers, acoustic louvres, enclosures, absorptive treatment, plenums and barriers, described in the *Company* 's application, and in the supporting documentation referred to herein, including the *Acoustic Assessment Report* , to the extent approved by this *Approval;*

12. "*Publication NPC-233*" means the *Ministry* Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995 as amended; and

13. "*Publication NPC-300*" means the *Ministry* Publication NPC-300, "Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning, Publication NPC-300", August, 2013, as amended.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and

DRAFT

conditions outlined below:

TERMS AND CONDITIONS

1. OPERATION AND MAINTENANCE

1. The *Company* shall ensure that the *Equipment* is properly operated and maintained at all times. The *Company* shall:

    a. prepare, before commencement of operation of the *Equipment,* and update, as necessary, a *Manual* outlining the operating procedures and a maintenance program for the *Equipment,* including:

        i. routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the *Equipment* suppliers;

        ii. emergency procedures, including spill clean-up procedures;

        iii. procedures for any record keeping activities relating to operation and maintenance of the *Equipment;*

        iv. all appropriate measures to minimize noise and odorous emissions from all potential sources; and

    b. implement the recommendations of the Manual.

2. The *Company* shall ensure that the activated carbon and activated alumina in the *Equipment* is replaced before it is *Exhausted.*

2. RECORD RETENTION

1. The *Company* shall retain, for a minimum of two (2) years from the date of their creation, all records and information related to or resulting from the recording activities required by this *Approval,* and make these records available for review by staff of the *Ministry* upon request. The *Company* shall retain:

    a. all records on the maintenance, repair and inspection of the *Equipment;* and

    b. all records of any environmental complaints, including:

        i. a description, time and date of each incident to which the complaint relates;

        ii. wind direction at the time of the incident to which the complaint relates; and

DRAFT

iii. a description of the measures taken to address the cause of the incident to which the complaint relates and to prevent a similar occurrence in the future.

3. NOTIFICATION OF COMPLAINTS

1. The *Company* shall notify the *District Manager,* in writing, of each environmental complaint within two (2) business days of the complaint. The notification shall include:

   i. a description of the nature of the complaint; and

   ii. the time and date of the incident to which the complaint relates.

4. NOISE

1. The *Company* shall:

   a. fully implement the *Noise Control Measures* specified in the *Acoustic Assessment Report,* prior to commencement of operation of the *Facility;*

   b. ensure, subsequent to the completion of the *Noise Control Measures* , that the noise emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-300;* and

   c. ensure that the *Noise Control Measures* are properly maintained and continue to provide the acoustical performance outlined in the *Acoustic Assessment Report.*

The reasons for the imposition of these terms and conditions are as follows:

1. Condition No. 1 is included to emphasize that the *Equipment* must be maintained and operated according to a procedure that will result in compliance with the *EPA,* the regulations and this *Approval.*

2. Condition No. 2 is included to require the *Company* to keep records and to provide information to staff of the *Ministry* so that compliance with the *EPA,* the regulations and this *Approval* can be verified.

3. Condition No. 3 is included to require the *Company* to notify staff of the *Ministry* so as to assist the *Ministry* with the review of the site's compliance.

4. Condition No. 4 is included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the *Facility.*

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;

DRAFT

b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 14th day of April, 2020

Rudolf Wan, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

ES/
c: District Manager, MECP Halton-Peel District Office
Paul Dagenais, Cole Engineering Group Ltd.

DRAFT

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL
NUMBER 2960-ALCLTM
Issue Date: June 22, 2017

The Regional Municipality of Peel
10 Peel Centre Drive
Brampton, Ontario
L6T 4B9

Site Location: Region of Peel's municipal sanitary sewage collection system

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

system-wide municipal sanitary sewage Works serving the Regional Municipality of Peel for the collection and transmission of sanitary sewage, connected to the G. E. Booth Lakeview Wastewater Treatment Facility, the Clarkson Wastewater Treatment Facility and the Inglewood Wastewater Treatment Facility;

The Environmental Compliance Approval includes the following:

Schedule	Contents
Schedule A	Description of Works
Schedule B	Terms and Conditions
Schedule C	Limited Operational Flexibility
Schedule D	Assumption of Ownership of Sewage Works
Schedule E	Supporting Documents

DRAFT

Schedule A: Description of Works

System Owner and Operator	**The Regional Municipality of Peel**
System Name	**Sanitary Collection System servicing the G. E. Booth Lakeview Wastewater Treatment Facility, the Clarkson Wastewater Treatment Facility and the Inglewood Wastewater Treatment Facility**

The sanitary sewage collection system serving the G. E. Booth Lakeview Wastewater Treatment Facility, the Clarkson Wastewater Treatment Facility and the Inglewood Wastewater Treatment Facility consists of approximately 3,780 kilometres (km) of sanitary sewers and sanitary forcemains, thirty-two (32) sewage pumping stations (SPS), one (1) odour/corrosion control facility and two (2) septage receiving stations. The sanitary sewage collection system also includes all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances that are essential for the proper operation of the Works. The sanitary sewage collection system serves the urban area of the Regional Municipality of Peel.

Schedule A includes:

1.0 System-Wide Approval – Sanitary Sewage Collection System

2.0 System-Wide Approval – Sewage Pumping Stations

3.0 System-Wide Approval – Odour Control and Septage Receiving Facilities

4.0 System-Wide Approval – System Overflows

DRAFT

1.0 System Wide Approval – Sanitary Sewage Collection System

The main components of the Sanitary Sewage Collection System include the Mains and Forcemains described below:

1.1. Gravity sewer Mains and Forcemains included in Table 1:

Table 1. Sanitary Sewage Collection System	
Plan / Files	Revision Date
Sanitary Infrastructure Map - The Regional Municipality of Peel (not to scale)	November 17, 2016

Classification of the Sanitary Sewage Collection System at the date of issuance of this Approval by length:

Table 2. Sanitary Sewage Collection System by Length			
System Type	Pipe Diameter (mm)	Length (km)	System Total Length (km)
Sanitary sewers	0-250	2,293.5	3,289.5
	300-500	528	
	525-1,050	337.1	
	≥1,200	130.9	
Forcemains	0-250	179.3	489.5
	300-500	142.2	
	525-1,050	168	
	≥1,200	0	
		Total length	**3,779**

DRAFT

2.0 System Wide Approval – Sewage Pumping Stations

2.1 Beach Street Sewage Pumping Station	
Location	639 Beach Street, Mississauga.
UTM Coordinates	616053.71 E, 4824733.26 N.
Description	The station contains one (1) building, one (1) wet well, one (1) dry well, three (3) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 1250 m long and 450 mm diameter ductile forcemain, one (1) approximately 30 m long 450 mm diameter ductile forcemain and one (1) approximately 1220 m long 500 mm diameter ductile forcemain.
Rated Capacity	756 L/s, equipped with three (3) pumps: two (2) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA Nos. 1-459-77-006, 3-0588-91-006 and 8-3135-91-926, issued on January 24, 1977, June 11, 1991 and February 20, 1992, respectively.
Overflow	Overflow structure for discharge to Lake Ontario. The overflow discharge to the SPS west side to Lake Ontario.
Notes	The station contains one (1) odour control unit that uses activated carbon.

2.2 Beechwood Sewage Pumping Station	
Location	503 Lakeshore Road East, Mississauga.
UTM Coordinates	615470.64 E, 4824739.1 N.
Description	The station contains one (1) building, two (2) wet wells, one (1) dry well, four (4) pumps, two (2) grinders, and all associated controls and appurtenances. The station is connected to two (2) 750 mm diameter forcemains.
Rated Capacity	1,500 L/s, equipped with four (4) pumps: three (3) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 5523-9ZBPUW issued on August 25, 2015.
Overflow	No engineered overflow.
Notes	The station contains one (1) odour control unit that uses activated carbon.

DRAFT

2.3 Ben Machree Sewage Pumping Station	
Location	67 Ben Machree Drive, Mississauga.
UTM Coordinates	613932.14 E, 4821838.87 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 370 m long 200 mm diameter asbestos cement forcemain.
Rated Capacity	30 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA Nos. 1425-7GCQJS and 1162-7GEKJ2, issued on July 11, 2008 and Sept 29, 2008, respectively.
Overflow	Overflow discharges to storm management system.
Notes	

2.4 Bolton North Hill Sewage Pumping Station	
Location	109 Castelli Court, Caledon (Bolton).
UTM Coordinates	601949.68 E, 4861285.58 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 605 m long 200 mm diameter forcemain.
Rated Capacity	26 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	No approval record.
Overflow	No engineered overflow.
Notes	

DRAFT

2.5 Bolton Sewage Pumping Station	
Location	95 Old King Road, Caledon (Bolton).
UTM Coordinates	602103.39 E, 4859690.42 N.
Description	The station contains one (1) building, one (1) wet well, one (1) dry well, three (3) pumps, one (1) submersible mixer, one (1) grinder, and all associated controls and appurtenances. The station is connected to two (2) approximately 980 m long 350 mm diameter forcemains and one (1) approximately 980 m long 450 mm diameter forcemain.
Rated Capacity	380 L/s, equipped with three (3) pumps: two (2) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA Nos. 3-0460-84-006 and 8230-6CBM2R, issued on May 11, 2000 and June 20, 2005, respectively.
Overflow	Overflow structure for discharges to Humber River.
Notes	

2.6 Caledon East Sewage Pumping Station	
Location	2 Mountcrest Road, Caledon.
UTM Coordinates	591265.13 E, 4857897.04 N.
Description	The station contains one (1) building, one (1) wet well, three (3) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 560 m long 300 mm diameter ductile iron forcemain.
Rated Capacity	110 L/s, equipped with three (3) pumps: two (2) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA Nos. 3-0294-94-006 and 8-3102-94-006, issued on April 14, 1994 and May 2, 1994, respectively.
Overflow	Overflow discharges to storm management pond.
Notes	The station can handle a reported capacity of approximately 124 L/s. The overflow discharges to the adjacent marsh.

DRAFT

2.7 Castlemore Sewage Pumping Station	
Location	45 Blaketon Court, Brampton.
UTM Coordinates	602781.62 E, 4847640.79 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 465 m long 150 mm diameter PVC forcemain.
Rated Capacity	20 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 5017-4XAP2N, issued on June 8, 2001.
Overflow	Overflow discharges to storm management system then to tributary of Humber River.
Notes	

2.8 Dougall (Mayfield West) SPS	
Location	535 Dougall Ave, Caledon
UTM Coordinates	593488.18 E, 4844793.50 N.
Description	The station contains one (1) building, one (1) wet well, one (1) dry well, three (3) pumps, and all associated controls and appurtenances. The station is connected to two (2) approximately 780 m long, 200 mm diameter forcemains.
Rated Capacity	54 L/s, equipped with three (3) pumps: two (2) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 5750-9FLTNF, issued on May,20, 2014.
Overflow	Overflow discharges to the Etobicoke Creek.
Notes	The station contains one (1) odour control unit.

DRAFT

2.9 Elmwood Sewage Pumping Station	
Location	2 Elmwood Avenue South, Mississauga.
UTM Coordinates	614927.34 E, 4823441.68 N.
Description	The station contains one (1) building, one (1) wet well, three (3) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 995 m long 450 mm diameter ductile iron forcemain.
Rated Capacity	195 L/s, equipped with three (3) pumps: two (2) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 3-0089-86-006 issued on February 25, 1986.
Overflow	Overflow structure for discharge to Lake Ontario.
Notes	

2.10 Fifeshire Sewage Pumping Station	
Location	1775 Fifeshire Court, Mississauga.
UTM Coordinates	606785.99 E, 4823398.69 N.
Description	The station contains one (1) control kiosk, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 105 m long 100 mm diameter forcemain.
Rated Capacity	28 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	None.
Previous ECA	ECA No. 3-1014-95-006 issued on August 10, 1995.
Overflow	Overflow discharges to storm management system then into Sawmill Creek.
Notes	

DRAFT

2.11 Front Street Sewage Pumping Station	
Location	1 Front Street South, Mississauga.
UTM Coordinates	614151.6 E, 4822878.75 N.
Description	The station contains one (1) building, one (1) wet well, four (4) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 1030 m long 500 mm diameter forcemain.
Rated Capacity	314 L/s, equipped with four (4) pumps: three (3) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 8960-5ACPM6 issued on May 23, 2002.
Overflow	Overflow structure for discharge to Credit River.
Notes	The station contains one (1) odour control unit that uses activated carbon.

2.12 Gore Road Sewage Pumping Station	
Location	4599 Queen Street East, Brampton.
UTM Coordinates	608512.82 E, 4846666.83 N.
Description	The station contains two (2) buildings, one (1) wet well, three (3) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 1375 m long 200 mm diameter forcemain and one (1) approximately 1320 m long 300 mm diameter forcemain.
Rated Capacity	82 L/s, equipped with three (3) pumps: two (2) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 4396-7GLPMB issued on Aug 26, 2008.
Overflow	Overflow discharges to secondary storage then to adjacent creek.
Notes	

DRAFT

2.13 Harvestview Sewage Pumping Station	
Location	10 Harvestview Avenue, Caledon (Bolton).
UTM Coordinates	603346.97 E, 4858939.35 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 370 m long 150 mm diameter forcemain.
Rated Capacity	14 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	No approval record.
Overflow	Overflow discharges to storm management system.
Notes	

2.14 Hiawatha Sewage Pumping Station	
Location	76 Cumberland Drive, Mississauga.
UTM Coordinates	615351.77 E, 4823813.47 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps and all associated controls and appurtenances. The station is connected to one (1) approximately 5 m long 150 mm diameter ductile iron forcemain.
Rated Capacity	40 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 8-3058-90-006 issued on July 20, 1990.
Overflow	Overflow structure for discharge to Lake Ontario.
Notes	The station can handle a reported capacity of approximately 16.5 L/s. The overflow discharges to Lake Ontario.

DRAFT

2.15 Indian Road Sewage Pumping Station	
Location	397 Temagami Crescent, Mississauga.
UTM Coordinates	613041.95 E, 4823138.65 N.
Description	The station contains one (1) building, one (1) wet well, one (1) dry well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 1165 m long 250 mm diameter asbestos cement forcemain.
Rated Capacity	73 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 5472-4LBLKG issued on June 15, 2000.
Overflow	Overflow structure for discharge to Credit River.
Notes	

2.16 Inglewood Sewage Pumping Station	
Location	15551, Inglewood Village, Caledon.
UTM Coordinates	586139.92 E, 4849676.02 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, one (1) grinder, and all associated controls and appurtenances. The station is connected to one (1) approximately 345 m long 100 mm diameter PVC forcemain.
Rated Capacity	7.5 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 4007-7G6Q82 issued on July 10, 2008.
Overflow	No engineered overflow.
Notes	

DRAFT

2.17 Intermodal Sewage Pumping Station	
Location	322 Intermodal Drive, Brampton.
UTM Coordinates	607012.14 E, 4843348.46 N.
Description	The station contains one (1) building, one (1) wet well, one (1) grinder, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 265 m long 400 mm diameter ductile iron forcemain.
Rated Capacity	160 L/s, equipped with two (2) pumps: two (2) duty.
Standby Power	Provided.
Previous ECA	ECA No. 5127-835SBH issued on March 10, 2010.
Overflow	No engineered overflow.
Notes	

2.18 Jack Darling Memorial Park Sewage Pumping Station No. 1	
Location	1180 Lakeshore Road West, Mississauga.
UTM Coordinates	612539.08 E, 4820491.91 N.
Description	The station contains one (1) building, one (1) wet well, one (1) dry well, one (1) grinder, four (4) pumps, and all associated controls and appurtenances. The station is connected to two (2) approximately 1785 m long 600 mm diameter concrete forcemains.
Rated Capacity	800 L/s, equipped with four (4) pumps: three (3) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA Nos. 5016-7AMSSQ and 9281-7BASN5, issued on January 9, 2008 and January 9, 2008, respectively.
Overflow	Overflow structure for discharge to Lake Ontario.
Notes	The station contains one (1) odour control unit.

DRAFT

2.19 Jack Darling Memorial Park Sewage Pumping Station No. 2	
Location	1180 Lakeshore Road West, Mississauga.
UTM Coordinates	612871.45 E, 4820238.56 N.
Description	The station contains one (1) control kiosk, one (1) wet well, three (3) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 165 m long 300 mm diameter PVC forcemain.
Rated Capacity	107 L/s, equipped with three (3) pumps: two (2) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 5016-7AMSSQ issued on January 9, 2008.
Overflow	Overflow structure for discharge to Lake Ontario.
Notes	The station contains one (1) odour control unit that uses activated carbon.

2.20 Lakelands Sewage Pumping Station	
Location	26 Stoneylake Avenue, Brampton.
UTM Coordinates	599472.37 E, 4841233.77 N.
Description	The station contains one (1) building, one (1) wet well, three (3) pumps, and all associated controls and appurtenances. The station is connected to two (2) approximately 575 m long 200 mm diameter forcemain.
Rated Capacity	64 L/s, equipped with three (3) pumps: two (2) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA Nos. 7350-5UWJXF and 9922-5RNH3Q, issued on January 7, 2004 and April 26, 2004, respectively.
Overflow	Overflow discharges to storm management system then to Turtle Creek.
Notes	The station contains one (1) odour control unit that uses activated carbon.

DRAFT

2.21 Mayfield Sewage Pumping Station	
Location	12025 Bramalea Road, Brampton.
UTM Coordinates	597988.69 E, 4847373.15 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 810 m long 150 mm diameter asbestos cement forcemain.
Rated Capacity	20 L/s, with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA Nos. 6027-5M3K5E and 8-3357-92-006, issued on April 30, 2003 and November 23, 1992, respectively.
Overflow	Overflow discharges to storm management system.
Notes	

2.22 McVean Sewage Pumping Station	
Location	3900 Ebenezer Road, Brampton.
UTM Coordinates	606519.54 E, 4846134.98 N.
Description	The station contains one (1) building, one (1) wet well, one (1) dry well, three (3) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 980 m long 500 mm forcemain and one (1) approximately 1005 m long 900 mm diameter forcemain.
Rated Capacity	1,400 L/s, equipped with three (3) pumps: two (2) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 8062-6TMHL2 and 6071-69GQ5M, issued on September 19, 2006 and February 17, 2005, respectively.
Overflow	Overflow discharges to storm management system.
Notes	The station contains one (1) odour control unit that uses a biofilter.

DRAFT

2.23 Meadowvale Sewage Pumping Station	
Location	7005 Old Mill Lane, Mississauga.
UTM Coordinates	602495.81 E, 4831091.99 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 715 m long 200 mm diameter ductile iron forcemain.
Rated Capacity	11 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	No approval record.
Overflow	Overflow discharges to storm management system.
Notes	

2.24 Mullet Creek Sewage Pumping Station	
Location	7755 Heritage Road, Brampton.
UTM Coordinates	598743.02 E, 4829741.26 N.
Description	The station contains one (1) building, one (1) wet well, one (1) dry well, four (4) pumps, one (1) grinder, and all associated controls and appurtenances. The station is connected to one (1) approximately 500 m long 500 mm diameter HDPE forcemain.
Rated Capacity	230 L/s, equipped with four (4) pumps: three (3) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA Nos. 2071-75HKBT, 0284-6Y7JS4 and 2278-75EQPT, issued on August 2, 2007, February 12, 2007 and August 3, 2007, respectively.
Overflow	No engineered overflow, with discharge to Mullet Creek.
Notes	The station contains one (1) odour control unit.

DRAFT

2.25 O'Neil Court Sewage Pumping Station	
Location	1839 O'Neil Court, Mississauga.
UTM Coordinates	607233.19 E, 4823183.25 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 335 m long 100 mm diameter PVC forcemain.
Rated Capacity	7.1 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	No approval record.
Overflow	Overflow discharges to storm management system draining to Mullet Creek.
Notes	

2.26 Pinetree Sewage Pumping Station	
Location	1487 Pinetree Crescent, Mississauga.
UTM Coordinates	612706.94 E, 4823515.93 N.
Description	The station contains one (1) control kiosk, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 100 m long 100 mm diameter PVC forcemain.
Rated Capacity	6.5 L/s equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	None.
Previous ECA	ECA No. 7910-7T9JUA issued on June 22, 2009.
Overflow	Overflow structure for discharge to nearby creek.
Notes	

DRAFT

2.27 Richard's Memorial Sewage Pumping Station	
Location	870 Lakeshore Road West, Mississauga.
UTM Coordinates	612968.72 E, 4821298.78 N.
Description	The station contains one (1) building, one (1) wet well, three (3) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 740 m long 400 mm diameter asbestos cement forcemain.
Rated Capacity	195 L/s, equipped with three (3) pumps: two (2) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 3-0414-87-006 issued on September 2, 1987.
Overflow	Overflow discharges to storm management system
Notes	

2.28 Rosemere Sewage Pumping Station	
Location	182 Rosemere Road, Mississauga.
UTM Coordinates	613891.58 E, 4823330.86 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 310 m long 200 mm diameter asbestos cement forcemain.
Rated Capacity	25 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 3-1313-94-006 issued on October 31, 1994.
Overflow	Overflow discharges to storm management system.
Notes	

DRAFT

2.29 Shardawn Mews Sewage Pumping Station	
Location	2206 Shardawn Mews, Mississauga.
UTM Coordinates	611041.58 E, 4823270.34 N.
Description	The station contains one (1) control kiosk, one (1) wet well, two (2) pumps, and all associated control and appurtenances. The station is connected to one (1) approximately 285 m long 100 mm PVC forcemain.
Rated Capacity	9.4 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	None.
Previous ECA	No approval record.
Overflow	Overflow discharges to storm management system draining to the Credit River.
Notes	

2.30 Silverbirch Trail Sewage Pumping Station	
Location	777 Silverbirch Trail, Mississauga.
UTM Coordinates	612274.58 E, 4819400.61 N.
Description	The station contains one (1) building, one (1) wet well, one (1) dry well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 310 m long 200 mm diameter forcemain.
Rated Capacity	48 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 7003-4LKNQE issued on June 23, 2000.
Overflow	Overflow discharges to storm management system then to Turtle Creek.
Notes	

DRAFT

2.31 Stonehaven Sewage Pumping Station	
Location	1570 Stonehaven Drive, Mississauga.
UTM Coordinates	611956.83 E, 4819266.97 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 390 m long 100 mm diameter forcemain.
Rated Capacity	12.9 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	No approval record.
Overflow	Overflow discharges to storm sewer.
Notes	

2.32 Watersedge Sewage Pumping Station	
Location	1650 Watersedge Road, Mississauga.
UTM Coordinates	612890.71 E, 4817931.05 N.
Description	The station contains one (1) building, one (1) wet well, two (2) pumps, and all associated controls and appurtenances. The station is connected to one (1) approximately 1455 m long 200 mm diameter asbestos cement and PVC forcemain.
Rated Capacity	13.5 L/s, equipped with two (2) pumps: one (1) duty and one (1) standby.
Standby Power	Provided.
Previous ECA	ECA No. 3-1014-95-006 issued on August 10, 1995.
Overflow	Overflow structure for discharge to Lake Ontario.
Notes	

DRAFT

3.0 System Wide Approval – Odour Control and Septage Receiving Facilities

3.1 Torbram Septage Receiving Station	
Location	7795 Torbram Road, Brampton.
UTM Coordinates	607069.28 E, 4840597.25 N.
Description	The station contains one (1) septage receiving building, one (1) septage unloading bay, and all associated controls and appurtenances.
Previous ECA	ECA No. 9656-AB4QAM issued on July 12, 2016.
Notes	The station was designed to handle a peak flow rate of approximately 33.3 L/s and a maximum daily flow rate of 169 cubic metres per day.

3.2 York-Peel Forcemain Odour Control	
Location	2625 Steeles Avenue East, Brampton.
UTM Coordinates	606862.65 E, 4841531.39 N.
Description	The station contains one (1) building, one (1) outfall chamber, one (1) scrubber system, two (2) chemical injection systems and all associated controls and appurtenances.
Previous ECA	ECA Nos. 0703-62FKHD and 3945-5ZLKNA, issued on July 5, 2004 and July 6, 2004, respectively.

3.3 Mullet Creek Septage Receiving Station	
Location	7755 Heritage Road, Brampton.
UTM Coordinates	598743.02 E, 4829741.26 N.
Description	The station contains one (1) septage receiving area, one (1) septage unloading bay, and all associated controls and appurtenances.
Previous ECA	ECA Nos. 2071-75HKBT, 0284-6Y7JS4 and 2278-75EQPT, issued on August 2, 2007, February 12, 2007 and August 3, 2007, respectively.

DRAFT

4.0 System Wide Approval – System Overflows

	Location	Municipality	Diameter (mm)	Comments	Discharge
1	Cavendish Cr & Crawley Dr	Brampton	200	Sanitary Relief	To Storm
2	Sir Richards Rd & Courrier Ln	Mississauga	100	Overflow for siphon	To Storm
3	Tyandaga Cr & Indian Rd	Mississauga	150	Sanitary Relief	To Storm
4	Bromsgrove Rd & Southdown Rd	Mississauga	400	Sanitary Relief	To Storm
5	Dapnhe Ave & Arbordale Dr	Mississauga	250	Sanitary Relief	To Storm
6	Chriseden Dr & Penfield Rd	Mississauga	250	Sanitary Relief	To Storm
7	Springhill Dr & Tecumseh Park Dr	Mississauga	250	Sanitary Relief	To Storm

DRAFT

Schedule B: Terms and Conditions

System Owner and Operator	**The Regional Municipality of Peel**
System Name	**Sanitary Collection System servicing the G. E. Booth Lakeview Wastewater Treatment Facility, the Clarkson Wastewater Treatment Facility and the Inglewood Wastewater Treatment Facility**

Schedule B includes:

1.0 Definitions

2.0 Terms and Conditions

3.0 Reasons

DRAFT

1.0 Definitions

For the purpose of this environmental compliance approval, the following definitions apply:

"Approval" means this entire document and any schedules attached to it, and the application;

"Assumed Works" means those portions of the sewage works whose ownership has been assumed by the Owner from a different previous owner;

"BOD5" (also known as $TBOD_5$) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;

"Class Environmental Assessment Project" means an Undertaking that does not require any further approval under the EAA if the planning process set out in the class environmental assessment document is followed and successfully completed.

"CWA" means the Clean Water Act, R.S.O. 2006, c.22, as amended;

"Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;

"Duty to Consult" pertains to the Crown's legal obligation to consult with Aboriginal peoples where it contemplates decisions or actions that may adversely impact asserted or established Aboriginal or treaty rights;

"*E. coli*" refers to the thermally tolerant forms of Escherichia that can survive at 44.5 degrees Celsius;

"EAA" means the Environmental Assessment Act, R.S.O. 1990, c. E.18, as amended;

"Emergency Situation" means a structural, mechanical or electrical failure that causes a temporary reduction in the capacity of the Sewage Pumping Station or an unforeseen flow condition that may result in:

a) danger to the health or safety of any person; or
b) injury or damage to any property, or serious risk of injury or damage to any property;

"EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;

"Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of a named equipment;

"Event" means an action or occurrence at the Sewage Pumping Station that causes a Sewage Pumping Station Overflow. An Event ends when there is no recurrence of a Sewage Pumping Station Overflow in the 12-hour period following the last Sewage Pumping Station Overflow. Two Events are separated by at least 12 hours during which there has been no recurrence of a Sewage Pumping Station Overflow;

"Limited Operational Flexibility" (LOF) means any modifications that the Owner is permitted to make to the Works under this Approval;

DRAFT

"Minister" means the Minister of the Environment and Climate Change;

"Ministry" means the ministry of the government of Ontario responsible for the EPA, CWA and OWRA and includes all officials, employees or other persons acting on its behalf;

"Notice of Assumption" means the form entitled "Notice of Assumption of Sewage Works";

"Notice of Modifications" means the form entitled "Notice of Modification to Sewage Works";

"Owner" means the Regional Municipality of Peel, and includes its successors and assignees;

"OWRA" means the Ontario Water Resources Act, R.S.O. 1990, c. O.40, as amended;

"Part II Order" means an order issued by the Minister that makes a Class Environmental Assessment Project an Undertaking that is subject to Part II of the EAA;

"Professional Engineer" means a person entitled to practice as a Professional Engineer in the Province of Ontario under a licence issued under the Professional Engineers Act;

"Proposed Works" means those portions of the sewage works under Limited Operational Flexibility proposed as part of a Notice of Modifications;

"Rated Capacity" means the Average Daily Flow which the Works are approved to handle;

"Sewage Pumping Station Overflow" means any discharge from a Sewage Pumping Station to the environment that does not undergo any treatment or only receives partial treatment before it is discharged to the environment;

"Significant Drinking Water Threat" has the same meaning as in the CWA;

"Significant Threat Policy(ies)" has the same meaning as in the CWA;

"Source Protection Plan" means a drinking water source protection plan prepared under the CWA;

"Substantial Completion" has the same meaning as "substantial performance" in the Construction Lien Act;

"Undertaking" has the same meaning as in the EAA;

"Water Supervisor" means the Water Supervisor of the appropriate local office of the Safe Drinking Water Branch of the Ministry, where the Works are geographically located; and

"Works" means the sewage works described in the Owner's application, this Approval, Proposed Works and the modifications made under Limited Operational Flexibility.

DRAFT

2.0 Terms and Conditions

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

2.1 GENERAL CONDITIONS

(1) The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Except as otherwise provided by these conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, and the application for approval of the Works.

(3) Where there is a conflict between a provision of any document in the schedule referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence, and where there is a conflict between the documents in the schedule, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the documents listed in Schedule 'A' and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The conditions of this Approval are severable. If any condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

2.2 CHANGE OF OWNER

(1) The Owner shall notify the Water Supervisor and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of Owner;

(b) change of address of the Owner;

(c) change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the Water Supervisor; or

(d) change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations

DRAFT

Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the Water Supervisor.

(2) In the event of any change in ownership of the Works, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the Water Supervisor and the Director.

(3) The Owner shall ensure that all communications made pursuant to this condition refer to the number at the top of this Approval.

2.3 SEWAGE PUMPING STATION OVERFLOW

(1) Any Sewage Pumping Station Overflow is prohibited, except:

(a) in an Emergency Situation; and

(b) where the Sewage Pumping Station Overflow is a direct and unavoidable result of a planned maintenance procedure, the Owner having notified the Water Supervisor at least fifteen (15) days prior to the occurrence of the Sewage Pumping Station Overflow and the Water Supervisor having given written consent of the Sewage Pumping Station Overflow.

(2) The Owner shall forthwith notify the Spills Action Centre (SAC) and the Medical Officer of Health of all Events as soon as possible. This notice shall include, at a minimum, the following information:

(a) the date, time, and duration of the Event;

(b) the location of the Sewage Pumping Station Overflow and the receiver;

(c) the measured or estimated volume of the Event (unless the Event is ongoing); and

(d) the reason for the Event.

(3) The Owner shall submit a summary report of the Sewage Pumping Station Overflow Events to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 14, May 15, August 14, and November 15. The summary reports shall be in a format specified by the Ministry, which shall include, at a minimum, the following information on any Events that occurred during the preceding quarter:

(a) the date of the Event(s);

(b) the measured or estimated volume of the Event(s);

(c) the duration of the Event(s);

(d) the location of the Sewage Pumping Station Overflow and the receiver;

DRAFT

(e) the reason for the Event(s); and

(f) the impact of the Event(s) on the receiver(s).

(4) The Owner shall use best efforts to collect a representative sample consisting of a minimum of two (2) grab samples of the Sewage Pumping Station Overflow and have it analyzed for the parameters outlined in Condition 2.5 using the protocols specified in Condition 2.5, one at the beginning of the Event and the second approximately near the end of the Event, to best reflect the effluent quality of the Sewage Pumping Station Overflow.

(5) The Owner shall maintain a logbook of all Sewage Pumping Station Overflows, which shall contain, at a minimum, the types of information set out in sub-conditions 2(a) to 2(d) in respect of each Sewage Pumping Station Overflow.

2.4 OPERATION AND MAINTENANCE

(1) The Owner shall exercise due diligence in ensuring that, at all times, the Works and the related equipment and appurtenances used to achieve compliance with this Approval are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this Approval and the EPA and regulations, adequate laboratory services, process controls and alarms and the use of process chemicals and other substances used in the Works.

(2) The Owner shall prepare an operations manual for facilities within twelve (12) months of the issuance date of this Approval, that includes or references, but is not necessarily limited to, the following information:

(a) operating and maintenance procedures for routine operation of the Works;

(b) inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the Works;

(d) procedures for the inspection and calibration of monitoring equipment;

(e) Emergency Response, Spill Reporting and Contingency Plans and Procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification to the Spills Action Centre (SAC), the Medical Officer of Health, and the Water Supervisor; and

(f) procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

DRAFT

(3) The Owner shall maintain the operations manual current and have access to a copy for each sewage pumping station for the operational life of the station. Upon request, the Owner shall make the manual available to Ministry staff.

(4) The Owner shall provide for the overall operation of the sanitary sewage collection system an operator who holds a licence that is applicable to that type of facility and that is of the same class as or higher than the class of the facility in accordance with Ontario Regulation 129/04.

2.5 MONITORING AND RECORDING

The Owner shall carry out the following monitoring program as outlined in this Approval:

(1) All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the Sewage Pumping Station Overflow stream over the time period being monitored.

(2) Samples shall be collected at the following sampling points, at the frequency specified, by means of the specified sample type and analyzed for each parameter listed and all results recorded:

Table 3. Monitoring during a Sewage Pumping Station Overflow Event (Samples to be collected from the Sewage Pumping Station Overflow stream)	
Sample Type	Grab
Frequency	One sample at the beginning of the Event and the second sample approximately near the end of the Event
Parameters	BOD5, Total Suspended Solids, Total Phosphorus, Total Ammonia Nitrogen, *E. coli*[1], and pH

Note 1: Sampling and analysis shall be performed only for Events that occur between April 1 and October 31 inclusive

(3) The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:

(a) the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only)", as amended from time to time by more recently published editions;

(b) the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions; and

(c) the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.

2.6 REPORTING

(1) The Owner shall, upon request, make all manuals, plans, records, data, procedures and

supporting documentation available to Ministry staff.

(2) The Owner shall prepare and submit a performance report to the Water Supervisor on an annual basis, within ninety (90) days following the end of the period being reported upon. The first such report shall cover the first calendar year following the issuance of this Approval and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

(a) a summary and interpretation of all monitoring data, including an overview of the success and adequacy of the Works;

(b) a description of any operating problems encountered and corrective actions taken;

(c) a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;

(d) a summary of the calibration and maintenance carried out on all monitoring equipment;

(e) a summary of any complaints received during the reporting period and any steps taken to address the complaints;

(f) a summary of all Sewage Pumping Station Overflows, spill or abnormal discharge events;

(g) a copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule C, Section 1(1), with a status report on the implementation of each modification;

(h) a report summarizing all modifications completed as a result of Schedule C, Section 1(3);

(i) a copy of all Notice of Assumptions submitted to the Water Supervisor as a result of Condition 2.8; and

(j) any other information the Water Supervisor requires from time to time.

(3) The Owner shall, within thirty (30) calendar days of issuance of this Approval, submit a Municipal Wastewater System Profile Information Form, and shall resubmit the updated document every time a notification is provided to the Water Supervisor in compliance with requirements of change of ownership under this Approval.

(4) The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation, maintenance and monitoring activities required by this Approval.

2.7 LIMITED OPERATIONAL FLEXIBILITY

(1) The Owner may make modifications to the Works in accordance with the terms and conditions of this Approval and subject to the Ministry's "Limited Operational Flexibility Criteria for Modifications to Municipal Sewage Works", included under Schedule C of this Approval, as

DRAFT

amended.

(2) Sewage works proposed under Limited Operational Flexibility shall adhere to the design guidelines contained within the Ministry's publication "Design Guidelines for Sewage Works 2008", as amended.

(3) The Owner shall ensure at all times, that the Works, related equipment and appurtenances which are installed or used to achieve compliance are operated in accordance with all terms and conditions of this Approval.

(4) For greater certainty, the following are not permitted as part of Limited Operational Flexibility:

(a) modifications to the Works that result in an increase of the approved Rated Capacity of the sewage treatment plants;

(b) modifications to the Works that may adversely affect the approved effluent quality criteria or the location of the discharge/outfall;

(c) modifications to the treatment process technology of the Works, or modifications that involve construction of new reactors (tanks) or alter the treatment train process design;

(d) modifications to activities mentioned in sub-section 9(1) of the EPA;

(e) modifications to the Works pursuant to an order issued by the Ministry;

(f) modifications to Works that are part of an Undertaking for which a request to issue a Part II Order has been submitted to the Ministry;

(g) modifications to Works that are part of an Undertaking for which a Part II Order has been issued by the Minister; and

(h) modifications to Works that will trigger the Duty to Consult.

(5) Implementation of Limited Operational Flexibility is not intended to be used for piecemeal measures that result in major alterations or expansions.

(6) If the implementation of Limited Operational Flexibility requires changes to be made to the Emergency Response, Spill Reporting and Contingency Plan, the Owner shall, as deemed necessary in consultation with the Water Supervisor, provide a revised copy of this plan to the local fire services authority prior to implementing Limited Operational Flexibility.

(7) For greater certainty, any modification made under the Limited Operational Flexibility may only be carried out after other legal obligations have been complied with, including those arising from the Environmental Protection Act, Environmental Assessment Act, Niagara Escarpment Planning and Development Act, Oak Ridges Moraine Conservation Act, Lake Simcoe Protection Act and Greenbelt Act.

DRAFT

(8) At least thirty (30) days prior to implementing Limited Operational Flexibility, the Owner shall complete a Notice of Modifications describing any proposed modifications to the Works and submit it to the Water Supervisor.

(9) The Owner shall ensure that an engineering assessment is completed for each Notice of Modifications prior to submitting the Notice of Modifications to the Water Supervisor. The engineering assessment shall be prepared by a Professional Engineer. The Owner shall abide by the recommendations made under the engineering assessment for the Proposed Works. The engineering assessment shall include, at minimum, the following:

(a) description of the Proposed Works;

(b) the documentation and drawings that were reviewed;

(c) regulatory requirements applicable to the Proposed Works;

(d) technical criteria used to assess the Proposed Works;

(e) any issues that were identified during the engineering review of the Proposed Works;

(f) source water protection considerations; and

(g) recommendations.

(10) Upon the Substantial Completion of Proposed Works, the Owner shall prepare a statement, certified by a Professional Engineer, that the works are constructed in accordance with the Notice of Modifications, and upon request, shall make the written statement available for inspection by Ministry personnel.

(11) Within twelve (12) months of the Substantial Completion of Proposed Works, a set of as-built drawings showing the Proposed Works "as constructed" shall be prepared. These drawings shall be kept up to date through revisions undertaken from time to time, and be made available upon Ministry request.

2.8 ASSUMPTION OF OWNERSHIP OF SEWAGE WORKS

(1) The Owner may make modifications to the Works in accordance with the terms and conditions of this Approval and subject to sub-sections (2), (3) and (4) of this condition.

(2) The Owner may add Assumed Works to this Approval, provided that:

(a) the transfer of the ownership of the sewage works to the Owner is complete;

(b) the previous owner of the sewage works has notified the Director of the change in ownership; and

(c) the Assumed Works are part of the municipal sanitary sewage Works utilized for the

DRAFT

collection and transmission of sanitary sewage in the Regional Municipality of Peel that are connected to the G. E. Booth Lakeview Wastewater Treatment Facility, Clarkson Wastewater Treatment Facility and Inglewood Wastewater Treatment Facility.

(3) To add Assumed Works to this Approval, the Owner shall complete a Notice of Assumption and submit it to the Water Supervisor, along with a copy of the approval issued to the sewage works prior to the transfer of ownership.

(4) Upon submission of the Notice of Assumption to the Water Supervisor, the terms and conditions of this Approval apply to the Assumed Works for which the Notice of Assumption has been submitted.

2.9 REVIEW OF APPROVAL

(1) No later than six (6) months past the fifth anniversary of the date of issuance of this Approval, the Owner shall submit to the Director an application to have the Approval reviewed. The application shall include, at minimum, the following information:

(a) an updated description of the Works, including any modifications to the Works that were made during the five (5) year period in accordance with the terms and conditions of this Approval and subject to the Ministry's "Limited Operational Flexibility Criteria for Modifications to Municipal Sewage Works", included under Schedule C of this Approval, as amended;

(b) a copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule C, Section 1(1), with the engineering assessment for each Notice of Modifications;

(c) a status report on the implementation of each modification;

(d) a copy of all Notice of Assumptions submitted to the Water Supervisor as a result of Condition 2.8, along with a copy of the approval issued to each sewage works that were assumed;

(e) a performance report on the operation and maintenance of the Works; and

(f) the application form.

DRAFT

3.0 Reasons

The reasons for the imposition of these terms and conditions are as follows:

3.1 Condition 2.1 is imposed to ensure that the Works are constructed and operated in the manner in which they were described and upon which approval was granted. This condition is also included to emphasize the precedence of conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.

3.2 Condition 2.2 is included to ensure that the Ministry records are kept accurate and current with respect to approved Works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.

3.3 Condition 2.3 is included to indicate that Sewage Pumping Station Overflows are prohibited, except in circumstances where the failure to overflow could result in greater injury to the public interest than the Sewage Pumping Station Overflow itself. The notification and documentation requirements allow the Ministry to take action in an informed manner and ensure that the Owner is aware of the extent and frequency of Events.

3.4 Condition 2.4 is included to ensure that the Works are properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. The Condition also ensures that a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner and is made available to the Ministry. Such a manual is an integral part of the operation of the Works. Its compilation and use should assist the Owner in staff training, proper plant operation, and identification and planning for contingencies during abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the operation of the Works.

3.5 Condition 2.5 is included to provide additional details on the monitoring of Sewage Pumping Station Overflows.

3.6 Condition 2.6 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.

3.7 Condition 2.7 is included to ensure that the Works are operated in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider. These conditions are also included to ensure that a Professional Engineer has reviewed the proposed modifications and attests that the modifications are in line with that of Limited Operational Flexibility, and provide assurance that the proposed modifications comply with the Ministry's requirements stipulated in the terms and conditions of this Approval, Ministry policies, guidelines, and industry engineering standards and best management practices.

3.8 Condition 2.8 is included to specify the requirements that need to be met by the Owner to add Assumed Works to this Approval.

DRAFT

3.9 Condition 2.9 is included to ensure that the Approval is updated on a regular basis by the Owner.

DRAFT

Schedule C: Limited Operational Flexibility

System Owner and Operator	**The Regional Municipality of Peel**
System Name	**Sanitary Collection System servicing the G. E. Booth Lakeview Wastewater Treatment Facility, the Clarkson Wastewater Treatment Facility and the Inglewood Wastewater Treatment Facility**

Schedule C includes:

1.0 Limited Operational Flexibility Criteria for Modifications to Municipal Sewage Works

2.0 Notice of Modification to Sewage Works

DRAFT

1.0 Limited Operational Flexibility Criteria for Modifications to Municipal Sewage Works

1. The modifications to sewage works approved under an Environmental Compliance Approval (Approval) that are permitted under the Limited Operational Flexibility (LOF), are outlined below and are subject to the LOF conditions in the Approval, and require the submission of the Notice of Modifications. If there is a conflict between the sewage works listed below and the Terms and Conditions in the Approval, the Terms and Conditions in the Approval shall take precedence.

1.1 Sanitary Sewers and Sanitary Forcemains

a. Alteration, extension, enlargement or replacement of new or existing sanitary sewers and sanitary forcemains, provided that:

i. the nominal pipe diameter is not greater than 1,200 millimetres;

ii. the sewers and mains are not combined sewers;

iii. the sewers and mains do not discharge directly to a sewage treatment plant;

iv. the design of the modification to or establishment of the sewers and mains has been prepared by a Professional Engineer; and

v. the consent of the property owner has been obtained for the establishment of new sewers and mains.

1.2 Sewage Pumping Stations

a. Altering pumping station capacity by adding or replacing equipment within an existing sanitary sewage pumping station site, provided that the modifications do not result in an increase in the Rated Capacity of the sewage treatment plants and the existing flow processes are maintained, as applicable.

1.3 Flow Regulators, Storage Tanks and Pressure Release Valves

a. Alteration of capacity by adding or replacing equipment, structures or instrumentation in the sanitary sewage collection system, provided that the modifications do not result in an increase in the Rated Capacity of the sewage treatment plants and that the existing flow processes are maintained.

1.4 Pilot Systems

a. Installation of pilot systems for new or existing technologies provided that:

i. any effluent from the pilot system is discharged to the inlet of the sewage pumping station or hauled off-site for proper disposal;

ii. any effluent from the pilot system discharged to the inlet of the sewage pumping station or sewage conveyance system does not significantly alter the composition/concentration of the influent sewage

DRAFT

to be treated in the downstream process; and that it does not add any inhibiting substances to the downstream process; and

iii. the pilot system's duration does not exceed a maximum of two (2) years; and a report with results is submitted to the Director and Water Supervisor three (3) months after the completion of the pilot project.

2. Sewage works that are exempt from section 53 of the OWRA by O. Reg. 525/98 continue to be exempt and are not required to follow the notification process under this Limited Operational Flexibility.

3. Normal or emergency operational modifications, such as repairs, reconstructions, or other improvements that are part of maintenance activities, including cleaning, renovations to existing approved sewage works equipment, provided that the modification is made with Equivalent Equipment, are considered pre-approved.

4. The modifications noted in sub-section (3) above are not required to follow the notification protocols under Limited Operational Flexibility, provided that the number of pieces and description of the equipment as described in the Approval does not change.

DRAFT

2.0 Notice of Modification to Sewage Works

Ontario
Ministry of
the Environment

Notice of Modification to Sewage Works

RETAIN COPY OF COMPLETED FORM AS PART OF THE ECA AND SEND A COPY TO THE WATER SUPERVISOR (FOR MUNICIPAL) OR DISTRICT MANAGER (FOR NON-MUNICIPAL SYSTEMS)

Part 1 – Environmental Compliance Approval (ECA) with Limited Operational Flexibility

(Insert the ECA's owner, number, issuance date and notice number, which should start with "01" and consecutive numbers thereafter)

ECA Number	Issuance Date (mm/dd/yy)	Notice number (if applicable)

ECA Owner	Municipality

Part 2: Description of the modifications as part of the Limited Operational Flexibility

(Attach a detailed description of the sewage works)

Description shall include:
1. A detail description of the modifications and/or operations to the sewage works (e.g. sewage work component, location, size, equipment type/model, material, process name, etc.)
2. Confirmation that the anticipated environmental effects are negligible.
3. List of updated versions of, or amendments to, all relevant technical documents that are affected by the modifications as applicable, i.e. submission of documentation is not required, but the listing of updated documents is (design brief, drawings, emergency plan, etc.)

Part 3 – Declaration by Professional Engineer

I hereby declare that I have verified the scope and technical aspects of this modification and confirm that the design:
1. Has been prepared or reviewed by a Professional Engineer who is licensed to practice in the Province of Ontario;
2. Conforms with the Limited Operational Flexibility as per the ECA;
3. Has been designed consistent with Ministry's Design Guidelines, adhering to engineering standards, industry's best management practices, and demonstrating ongoing compliance with s.53 of the Ontario Water Resources Act; and other appropriate regulations.

I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate.

Name (Print)	PEO License Number

Signature	Date (mm/dd/yy)

Name of Employer

Part 4 – Declaration by Owner

I hereby declare that:
1. I am authorized by the Owner to complete this Declaration;
2. The Owner consents to the modification; and
3. These modifications to the sewage works are proposed in accordance with the Limited Operational Flexibility as described in the ECA.
4. The Owner has fulfilled all applicable requirements of the *Environmental Assessment Act*.

I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate.

Name of Owner Representative (Print)	Owner representative's title (Print)

Owner Representative's Signature	Date (mm/dd/yy)

DRAFT

Schedule D: Assumption of Sewage Works

System Owner and Operator	**The Regional Municipality of Peel**
System Name	**Sanitary Collection System servicing the G. E. Booth Lakeview Wastewater Treatment Facility, the Clarkson Wastewater Treatment Facility and the Inglewood Wastewater Treatment Facility**

Schedule D includes:

1.0 Notice of Assumption of Sewage Works

DRAFT

1.0 Notice of Assumption of Sewage Works

Ontario
Ministry of
the Environment

Notice of Assumption of Sewage Works

RETAIN COPY OF COMPLETED FORM AS PART OF THE ECA AND SEND A COPY TO THE WATER SUPERVISOR (FOR MUNICIPAL) OR DISTRICT MANAGER (FOR NON-MUNICIPAL SYSTEMS)

Part 1 – System-Wide Environmental Compliance Approval (ECA)

(Insert the ECA's owner, number, issuance date and notice number, which should start with "01" and consecutive numbers thereafter)

ECA Number	Issuance Date (mm/dd/yy)	Notice number (if applicable)

ECA Owner	Municipality

Part 2: Transfer of Ownership of Sewage Works

Name of Previous Owner (Print)	ECA Number and Issuance Date of Sewage Works whose Ownership has been Transferred
Date of the Transfer of Ownership of Sewage Works (mm/dd/yy)	**Confirmation that the Transfer of Ownership of Sewage Works is Complete (y/n)**

Part 3: Description of the Assumed Works

(Attach a detailed description of the sewage works, e.g. sewage work component, location, size, equipment type/model, material, process name, etc.)

Part 4 – Declaration by Owner

I hereby declare that:
1. I am authorized by the Owner to complete this Declaration;
2. The Owner consents to the addition of the Assumed Works to the System-Wide ECA; and
3. The Owner has fulfilled all applicable requirements of the *Environmental Assessment Act*.

I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate.

Name of Owner Representative (Print)	Owner representative's title (Print)
Owner Representative's Signature	**Date (mm/dd/yy)**

DRAFT

Schedule E: Supporting Documents

System Owner and Operator	**The Regional Municipality of Peel**
System Name	**Sanitary Collection System servicing the G. E. Booth Lakeview Wastewater Treatment Facility, the Clarkson Wastewater Treatment Facility and the Inglewood Wastewater Treatment Facility**

Schedule E includes:

1.0 Supporting Documents

2.0 Sanitary Infrastructure Map for the Regional Municipality of Peel

DRAFT

1.0 Supporting Documents

1. Application for Environmental Compliance Approval for System-wide Municipal and Private Sewage Works, dated December 14, 2016, submitted by the Regional Municipality of Peel;

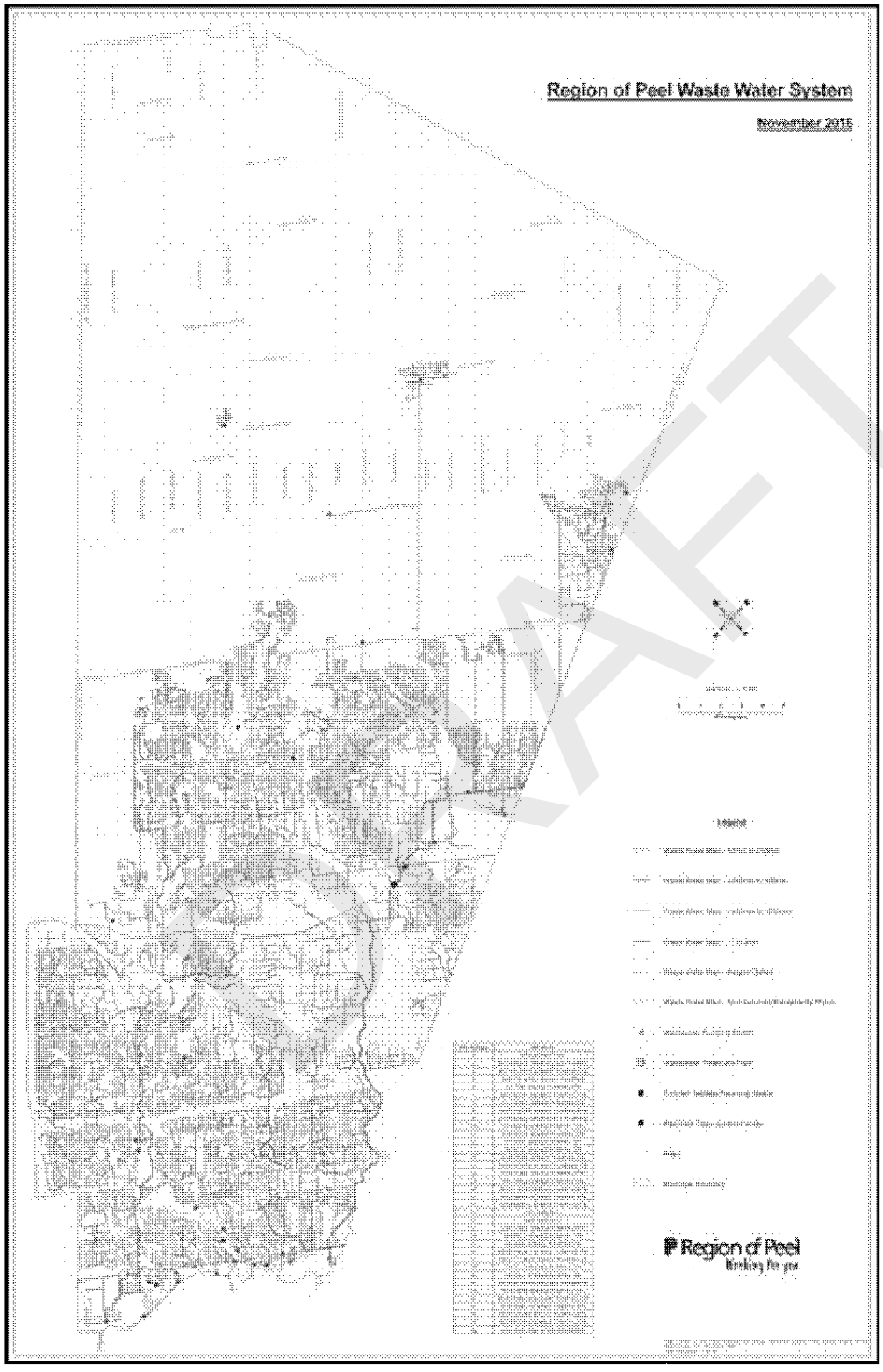
2. Schedule A: Description of Works, dated January 30, 2017; and

3. Emails from Edgardo Tovilla, P.Eng. of the Regional Municipality of Peel to the Ministry, dated December 15, 2016, February 3, 2017 and June 16, 2017.

DRAFT

BEST AVAILABLE COPY

2.0 Sanitary Infrastructure Map for the Regional Municipality of Peel



DRAFT

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 5523-9ZBPUW, 5127-835SBH, 7910-7T9JUA, 0000-53FPQY, 4396-7GLPMB, 1425-7GCQJS, 4007-7G6Q82, 5016-7AMSSQ, 2278-75EQPT, 0284-6Y7JS4, 8062-6TMHL2, 8230-6CBM2R, 6071-69GQ5M, 9922-5RNH3Q, 7350-5UWJXF, 6027-5M3K5E, 8960-5ACPM6, 5017-4XAP2N, 7003-4LKNQE, 5472-4LBLKG, 8-3102-94-006, 3-0588-91-006, 9656-AB4QAM, 3945-5ZLKNA, 4767-8ESSM7, 9128-9G3L5X, 5800-9AKMXQ, 9821-7BASN5, 4-0145-89-916, 3-1014-95-006, 3-1313-94-006, 8-3357-92-006, 8-3135-91-926, 8-3058-90-006, 3-0414-87-006, 3-0089-86-006 and 1-459-77-006 issued on August 25, 2015, October 3, 2010, November 7, 2008, October 7, 2008, September 1, 2008, March 8, 2007, December 2, 2007, July 1, 2004, August 6, 2001, February 5, 1994, December 6, 1991, December 7, 2016, June 7, 2004, June 3, 1991, October 8, 1995, January 11, 1994, April 9, 1987 and April 3, 1986.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of the Environmental Protection Act
Ministry of the Environment and Climate Change
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 22nd day of June, 2017

DRAFT

Gregory Zimmer, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

RU/

c: DWMD Supervisor, MOECC Halton-Peel Office.
Edgardo Tovilla, P.Eng., The Regional Municipality of Peel.

DRAFT

DRAFT

APPENDIX H:
MECP WELL RECORDS

Ontario — Ministry of the Environment

Well Tag Number A025747 / A025747

Well Record

Regulation 903 Ontario Water Resources Act

page 1 of 1

Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.
- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

MUN | CON | LOT

Well Owner's Information and Location of Well Information

First Name	Last Name	Mailing Address (Street Number/Name, RR, Lot, Concession)
Region of Peel		P.O. Box 2219

County/District/Municipality	Township/City/Town/Village	Province	Postal Code	Telephone Number (include area code)
	Brampton	Ontario	L6T 3S4	

Address of Well Location (County/District/Municipality)	Township	Lot	Concession
Port Credit Memorial Park			

RR#/Street Number/Name	City/Town/Village	Site/Compartment/Block/Tract etc.
	Port Credit	

GPS Reading — NAD: 83 | Zone: 17 | Easting: 619016 | Northing: 4823262

Unit Make/Model:

Mode of Operation: ☐ Undifferentiated ☐ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
Brown	SAND	silt, gravel, wood chips		0	0.49
Brown	SILT	sand	fine grained, moist	0.49	3.54
Grey	SILT	clay, sand	wet, fine sand	3.54	7.87

Hole Diameter

Depth From	Metres To	Diameter Centimetres
0	7.87	20

Water Record

Water found at ~~None~~ metres / Kind of Water

- ____ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
- ____ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
- ____ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

After test of well yield, water was
☐ Clear and sediment free
☐ Other, specify

Chlorinated ☐ Yes ☒ No

Construction Record

Casing

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
5.0	☐ Steel ☐ Fibreglass ☒ Plastic ☐ Concrete ☐ Galvanized	.4	0	4.82
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			

Screen

Outside diam	Material	Slot No.	Depth From	Depth To (Metres)
6.1	☐ Steel ☐ Fibreglass ☒ Plastic ☐ Concrete ☐ Galvanized	010	4.82	7.87

No Casing or Screen

☐ Open hole

Test of Well Yield

Pumping test method	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping ____hrs + ____ min	2		2	
Final water level end of pumping ____metres	3		3	
Recommended pump type. ☐ Shallow ☐ Deep	4		4	
Recommended pump depth. ____metres	5		5	
Recommended pump rate. (litres/min)	10		10	
If flowing give rate - (litres/min)	15		15	
If pumping discontinued, give reason.	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
	60		60	

Plugging and Sealing Record

☒ Annular space ☐ Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	0.3	Concrete	
0.3	4.45	Bentonite	
4.45	7.87	Sand	

Method of Construction

☐ Cable Tool ☐ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☐ Air percussion ☐ Jetting ☒ Other H.S.A
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☐ Domestic ☐ Industrial ☐ Public Supply ☒ Other MONITORING
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☐ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☒ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor	Well Contractor's Licence No.
All-Terrain Drilling Ltd.	1129

Business Address (street name, number, city etc.): 3-661 Colby Dr. Waterloo, ON N2V 1C2

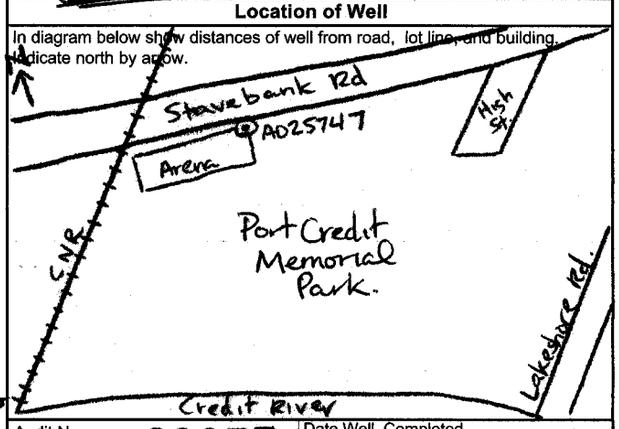
Name of Well Technician (last name, first name)	Well Technician's Licence No.
Girard, Jody Pollice, Michael	268

Signature of Technician/Contractor: X

Date Submitted: 2005 / 05 / 16

Location of Well

In diagram below show distances of well from road, lot line and building. Indicate north by arrow.



Audit No. Z 26277

Date Well Completed: YYYY 2005 / MM 03 / DD 16

Was the well owner's information package delivered? ☐ Yes ☒ No

Date Delivered: YYYY / MM / DD

Ministry Use Only

Data Source | Contractor 1129

Date Received: MAY 20 2005 | Date of Inspection: YYYY / MM / DD

Remarks | Well Record Number

0506E (09/03)

Contractor's Copy ☐ Ministry's Copy ☒ Well Owner's Copy ☐

Cette formule est disponible en français

DRAFT

Ontario Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)
A 061596
A061596

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

Well Owner's Information

First Name	Last Name	E-mail Address	
	DECOMMISSIONING CONSULTING SERVICES		☐ Well Constructed by Well Owner

Mailing Address (Street Number/Name, RR)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
11-212 GRANTON DR.	RICHMOND HILL	ON	L4B3N4	

Part A Construction and/or Major Alteration of a Well

Address of Well Location (Street Number/Name, RR)	Township	Lot	Concession
30 Stavebank Rd N			

County/District/Municipality	City/Town/Village	Province	Postal Code
PEEL	Mississauga	Ontario	

UTM Coordinates	Zone	Easting	Northing	GPS Unit Make	Model	Mode of Operation
NAD 83	17	613967	4823168	Garmin	GPS72	☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Overburden and Bedrock Materials *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
0.	0.3	Cement	
0.3	1.86	Bentonite	
1.86	4.96	Sand	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☒ Rotary (Reverse) ☐ Driving
☐ Rotary (Air) ☐ Digging
☐ Air percussion ☐ Boring
☐ Other, *specify* _____

Water Use

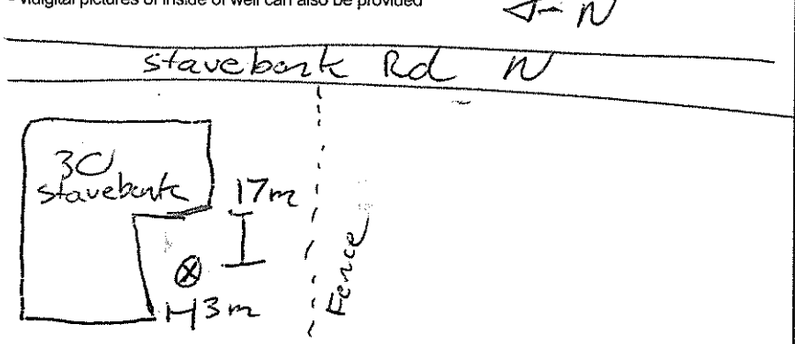
☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☒ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Status of Well

☐ Water Supply ☐ Dewatering Well ☒ Observation and/or Monitoring Hole
☐ Replacement Well ☐ Abandoned, Insufficient Supply ☐ Alteration (Construction)
☐ Test Hole ☐ Abandoned, Poor Water Quality ☐ Other, *specify* _____
☐ Recharge Well ☐ Abandoned, other, *specify* _____

Location of Well

Please provide a map below showing:
- all property boundaries, and measurements sufficient to locate the well in relation to fixed points,
- an arrow indicating the North direction
- detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
- vidigital pictures of inside of well can also be provided



Date Well Completed (yyyy/mm/dd)	Was the well owner's information package delivered?	Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd)
2007/11/02	☐ Yes ☒ No	

Results of Well Yield Testing

Check box if after test of well yield, water was:
☐ Clear and sand free
☐ Cannot develop to sand-free state

If pumping discontinued, give reason:

Pumping test method

Pump intake set at *(Metres)*

Pumping rate *(Litres/min)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(Metres)*

Recommended pump type ☐ Shallow ☐ Deep

Recommended pump depth ____ Metres

Recommended pump rate *(Litres/min)*

If flowing give rate *(Litres/min)*

	Draw Down Time (Min)	Draw Down Water Level (Metres)	Recovery Time (Min)	Recovery Water Level (Metres)
Static Level			Static Level	
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Water Details

Water found at Depth	Kind of Water
____ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
____ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
____ Metres ☐ Gas	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals

Casing Used

☐ Galvanized
☐ Steel
☐ Fibreglass
☒ Plastic
☐ Concrete

Screen Used

☐ Galvanized
☐ Steel
☐ Fibreglass
☒ Plastic
☐ Concrete

No Casing and Screen Used

☐ Open Hole

Disinfected? ☐ Yes ☐ No

Casing and Well Details

Diameter of the Hole *(Centimetres)* 20.5 cm
Depth of the Hole *(Metres)* 4.96 m
Wall Thickness *(Metres)* 0.25 cm
Inside Diameter of the Casing *(Metres)* 5 cm
Depth of the Casing *(Metres)* 1.85 m

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Soil Sampling	7241

Business Address (Street No./Name, number, RR)	Municipality
147 West Beaver Creek	Richmond Hill

Province	Postal Code	Business E-mail Address
ON	L4B1C6	jaudeau@stratasoil.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
9057649304	FENELUS JOHN

Well Technician's Licence No.	Signature of Technician	Date Submitted (yyyy/mm/dd)
30609		2007/11/02

Ministry Use Only

Audit No.	Well Contractor No.
Z63689	
Date Received (yyyy/mm/dd)	**Date of Inspection (yyyy/mm/dd)**
NOV 16 2007	
Remarks	

DRAFT

© Queen's Printer for Ontario, 2006

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*
Tag#: A145615

Well Record
Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
REGION OF PEEL	(C/O STANTEC CONSULTING LIMITED)		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
WASTE OPERATIONS, 7795 TORBRAM RD.	BRAMPTON	ONTARIO	L6T0B6	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
MEMORIAL PARK, PARK ST. E. & STAVEBANK RD.			

County/District/Municipality	City/Town/Village	Province	Postal Code
PEEL	PORT CREDIT	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614009	4823206		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BROWN	FILL			0	12'
BROWN	TILL			12'	15'
GREY	TILL			12'	22'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed (m^3/ft^3)
0	1'	CEMENT	
1'	11'	BENTONITE HOLEPLUG	
11'	17.5'	SILICA SAND	
17.5'	22'	BENTONITE HOLEPLUG.	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, *specify* AUGER

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☑ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
2"	PVC	Sch. 40	0	12'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
2"	PVC	0.010	12'	17'

Status of Well

☐ Water Supply
☐ Replacement Well
☑ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water	
12'	☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*	
(m/ft)	☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*	
(m/ft)	☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	22'	8"

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☑ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
LANTECH DRILLING SERVICES INC.	6809

Business Address (Street Number/Name)	Municipality
3661 MOUNT ALBERT ROAD	SHARON

Province	Postal Code	Business E-mail Address
ONTARIO	L0G1V0	

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9054782243	MIKE SOKOLOW

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2381		2013/11/18

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☑ No		2013/10/16

Ministry Use Only
Audit No. Z175941
APR 10 2014

0506E (2007/12) © Queen's Printer for Ontario, 2007

Ministry's Copy

DRAFT

APR 1 0 2014

C-10809 ZA5941

Ontario 13094 Ministry of the Environment

Measurements recorded in: [x] Metric [ ] Imperial

Well Tag No. (Place Sticker and/or Print Below) A175784 Tag#: A175784

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	[ ] Well Constructed by Well Owner
	c/o AMEC ENVIRONMENTAL		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
10 d CRECKFORD BOULEVARD	TORONTO	ONTARIO	M1R3C3	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
PORT CREDIT GO STATION	TORONTO	4	RANGE 1

County/District/Municipality	City/Town/Village	Province	Postal Code
MISSISSAUGA	PORT CREDIT	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614141	4827359		

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
GRAY	CONCRETE			0.0	0.2
BROWN	FILL			0.2	3.3
BROWN	SAND TILL			3.3	6.1
	EOH			6.1	
		-FLUSHMOUNT ADJECTIVE CASING			

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0.0	0.3	CONCRETE	
0.3	2.8	BENTONITE	
2.8	6.1	SAND	
	6.1	EOH	

Method of Construction

[ ] Cable Tool [ ] Diamond
[ ] Rotary (Conventional) [ ] Jetting
[ ] Rotary (Reverse) [ ] Driving
[x] Boring [ ] Digging
[ ] Air percussion
[ ] Other, specify

Well Use

[ ] Public [ ] Commercial [ ] Not used
[ ] Domestic [ ] Municipal [ ] Dewatering
[ ] Livestock [ ] Test Hole [x] Monitoring
[ ] Irrigation [ ] Cooling & Air Conditioning
[ ] Industrial
[ ] Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.0	PVC		0.0	3.1

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.3	PVC	0.010"	3.1	6.1

Status of Well

[ ] Water Supply
[ ] Replacement Well
[ ] Test Hole
[ ] Recharge Well
[ ] Dewatering Well
[x] Observation and/or Monitoring Hole
[ ] Alteration (Construction)
[ ] Abandoned, Insufficient Supply
[ ] Abandoned, Poor Water Quality
[ ] Abandoned, other, specify
[ ] Other, specify

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: Fresh	Untested	Other, specify
3.1	[ ]	[ ]	[x]	
	[ ]	[ ]	[ ]	
	[ ]	[ ]	[ ]	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0.0	6.1	11.4

Results of Well Yield Testing

After test of well yield, water was:
[ ] Clear and sand free
[ ] Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

Well production (l/min / GPM)

Disinfected? [ ] Yes [ ] No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.

MAP ATTACHED

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
SONIC SOIL SAMPLING INC.	7147

Business Address (Street Number/Name)	Municipality
338 MILLWAY AVENUE	YORK

Province	Postal Code	Business E-mail Address
ONTARIO	L4K 3V2	sonic@sonicsoil.com

Business Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
9056600501	ARCHIBALD, ALAN

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2881		2015 06 06

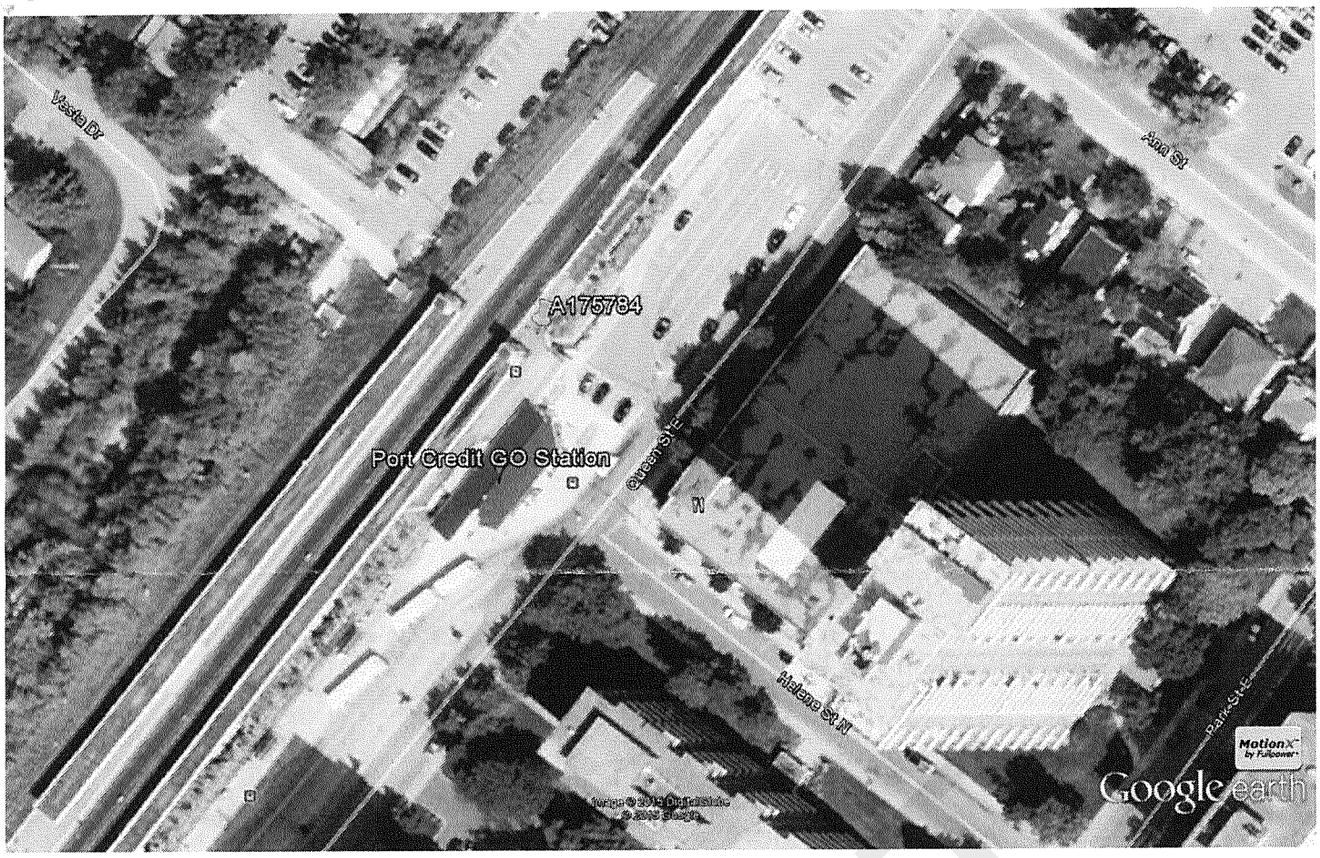
Well owner's information package delivered	Date Package Delivered	Date Work Completed
[ ] Yes [x] No		2015 06 06

Ministry Use Only

Audit No. Z 203315

JUN 25 2015

DRAFT



Google earth

feet 400
meters 100

DRAFT

C-7147
JUN 25 2015
Z 203315

16-0791-00

Ontario — Ministry of the Environment and Climate Change

Well Tag No. *(Place Sticker and/or Print Below)* A213503

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Measurements recorded in: ☐ Metric ☒ Imperial

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
21 Park St E.	Toronto		

County/District/Municipality	City/Town/Village	Province	Postal Code
Peel	Port Credit	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614135	4823255		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	Topsoil			0	5
Grey	Clay		Soft	5	15
Grey	Clay			15	20
	Clay with Gravel			20	30
	Limestone			30	49

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	1	Concrete	
1	37	Holeplug	
37	49		

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☒ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☒ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
1	PVC		0	39

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
	PVC	10	39	49

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☒ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify* _____
☐ Other, *specify* _____

Water Details

Water found at Depth (m/ft)	Kind of Water	
☐ Gas	☐ Fresh ☐ Untested	☐ Other, *specify*
☐ Gas	☐ Fresh ☐ Untested	☐ Other, *specify*
☐ Gas	☐ Fresh ☐ Untested	☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	30	6 1/4
30	35	4 1/2
35	49	3 1/2

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.

Comments: See Attached Map

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Aardvark Drilling Inc.	7238

Business Address (Street Number/Name)	Municipality
25-C Lewis Road	Guelph

Province	Postal Code	Business E-mail Address
ON	N1H1E9	www.aardvarkdrillinginc.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
5198269340	Stokes-Jackson, Kyle

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3875	[signature]	2016/12/20

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No		2016/12/06

Ministry Use Only

Audit No. Z232728

Received DEC 28 2016

0506E (2014/11) Ministry's Copy

© Queen's Printer for Ontario, 2014

C-7238 Z-232728

DEC 2 6 2016

16-0191-00

Ontario — Ministry of the Environment and Climate Change

Well Tag No. *(Place Sticker and/or Print Below)* A213501

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Measurements recorded in: ☐ Metric ☐ Imperial

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
27 Park St E.	Toronto		

County/District/Municipality	City/Town/Village	Province	Postal Code
Peel	Port Credit	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	611411	4812774		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Topsoil			0	2.5
Brown	Clay		Soft	2.5	10
Grey	Clay	Trace silt		10	15
	Clay	Trace gravel		15	24
				24	24.5

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	1	Concrete	
1	12	Hole Plug	
12	24	Sand	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☑ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
2	PVC		0	14

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
	PVC	10	14	24

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	24.5	6¼

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.

Comments:

See Attached map

Well Contractor and Well Technician Information

Business Name of Well Contractor: Aardvark Drilling Inc.

Well Contractor's Licence No.: 7238

Business Address (Street Number/Name): 15-C Lewis Road

Municipality: Guelph

Province: ON

Postal Code: N1H1E9

Business E-mail Address: www.aardvarkdrillinginc.com

Bus. Telephone No. *(inc. area code)*: 1982693400

Name of Well Technician (Last Name, First Name): Stokes, Kyle

Well Technician's Licence No.: 3875

Signature of Technician and/or Contractor: [signature]

Date Submitted: 2016/12/20

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: YYYY/MM/DD

Date Work Completed: 2016/12/06

Ministry Use Only

Audit No. Z232729

DEC 28 2016

Received

06E (2014/11)

Ministry's Copy

© Queen's Printer for Ontario, 2014

DRAFT

C-7238 Z-232729

DEC 2 8 2016

16-0191-00

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* A213502

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
21 Park St E	Toronto		

County/District/Municipality	City/Town/Village	Province	Postal Code
Peel	Port Credit	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614141	4823252		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Topsoil			0	2.5
Brown	Clay			2.5	7.5
Grey	Clay	trace silt	soft	7.5	15
Grey	Clay	trace gravel		15	25
Grey	Clay	trace gravel	hard	25	30

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	1	Concrete	
1	8	Hole Plug	
8	21	Sand	
21	30	Hole Plug	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☒ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☒ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
2	PVC		0	10

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
	PVC	10	10	20

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☒ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping _____ hrs + _____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

Water Details

Water found at Depth (m/ft)	Kind of Water	
	☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify* _____
	☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify* _____
	☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify* _____

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	30	6 1/4

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Aardvark Drilling Inc.	7238

Business Address (Street Number/Name)	Municipality
25-C Lewis Road	Guelph

Province	Postal Code	Business E-mail Address
ON	N1H1E9	www.aardvarkdrillinginc.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
5198269340	Stokes Kyle

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
31858		2016/12/20

Comments: See Attached Map

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: YYYY MM DD

Date Work Completed: 2016/12/02

Ministry Use Only

Audit No. Z232730

DEC 28 2016

Received

506E (2014/11)

Ministry's Copy

© Queen's Printer for Ontario, 2014

DRAFT

C-7238 Z-232730

DEC 2 8 2016

Ontario

Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*

Tag#: A 222975

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 2

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	Region of Peel		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
10 Peel Centre Drive, Suite B 4th Floor	Brampton	ON	L6T4B9	9055791178 x7886

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Rosemere Rd.			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Mississauga	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	613904	4823317		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	fill	sand	soft	0	4'
Brown	silt	clay	soft	4'	10'
Grey	silt	clay	Dense	10'	20'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed *(m³/ft³)*
0	9'	Bentonite	
9'	20	Sand pack	

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☑ Boring ☐ Digging ☐ Air percussion ☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☑ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, *specify*

Construction Record - Casing

Inside Diameter *(cm/in)*	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness *(cm/in)*	Depth (m/ft) From	Depth (m/ft) To
2"	plastic	0.2"	0	10'

Construction Record - Screen

Outside Diameter *(cm/in)*	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
2.5"	plastic	10	10'	20'

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, *specify* ☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter *(cm/in)*
0	20'	6.0"

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Davis Drilling Ltd.	7172

Business Address (Street Number/Name)	Municipality
873 Nipissing Rd.	Milton

Province	Postal Code	Business E-mail Address
ON	L9T4Z4	davisdrilling@bellnet.ca

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9052969115	Doucette, Jacob

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3912		2017/04/27

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time *(min)*	Draw Down Water Level *(m/ft)*	Recovery Time *(min)*	Recovery Water Level *(m/ft)*
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

See Map Attached labelled "A222975"

Comments:

Well owner's information package delivered ☐ Yes ☑ No

Date Package Delivered

Date Work Completed 2017/04/28

Ministry Use Only

Audit No. Z259485

Received MAY 29 2017

DRAFT

© Queen's Printer for Ontario, 2014

Google Earth

feet 400
meters 100

DRAFT

MAY 29 2017 G-7472
Z-259485

Ontario

Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*

Tag#: A 222974

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 2

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	Region of Peel		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
10 Peel Centre Drive, Suite B 4th Floor	Brampton	ON	L6T4B9	9057911 x7886

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Rosemere Rd.			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Mississauga	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	613899	4821316		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	fill	sand	Soft	0	4'
Brown	silt	clay	soft	4'	10'
Grey	silt	clay	Dense	10'	20'
Grey	silt	clay	wet	20'	45'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed *(m³/ft³)*
0	34'	Bentonite	
34'	45'	Sand pack	

Method of Construction

☐ Cable Tool ☑ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☑ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter *(cm/in)*	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness *(cm/in)*	Depth (m/ft) From	Depth (m/ft) To
2"	plastic	0.2"	0	35'

Construction Record - Screen

Outside Diameter *(cm/in)*	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
2.5"	plastic	10	35'	45'

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter *(cm/in)*
0	25'	6.0"
25'	45'	4.0"

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

See Map Attached labelled "A222974"

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Davis Drilling Ltd.	7172

Business Address (Street Number/Name)	Municipality
873 Nipissing Rd.	Milton

Province	Postal Code	Business E-mail Address
ON	L9T4Z4	davisdrilling@bellnet.ca

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9052996915	Doucette, Jacob

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3912		2017/04/24

Well owner's information package delivered ☐ Yes ☑ No

Date Package Delivered: YYYY MM DD

Date Work Completed: 2017/04/12

Ministry Use Only

Audit No. Z259484

MAY 29 2017

Received

© Queen's Printer for Ontario, 2014

DRAFT

Google Earth

feet 400
meters 100

DRAFT

MAY 29 2017 C-7472
Z-259484

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No. Tag#: A241261 — A241261

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	Well Constructed by Well Owner
Metrolinx	—	—	[ ]

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
97 Front st. W	Toronto	ON	M5J 1E6	4168745900

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1155 vesta dr.	—	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
Peel	Port Credit	Ontario	L5G3B9

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	610606	4823607	—	—

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	sand	Gravel	soft	0	3
Grey	silt	sand, Gravel	dense	3	9.4
Grey	Shale	limestone	layered	9.4	12.5

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	0.3	Concrete	0.0114
0.3	9.1	Bentonite chips	0.3345

Method of Construction

[ ] Cable Tool [X] Diamond
[ ] Rotary (Conventional) [ ] Jetting
[ ] Rotary (Reverse) [ ] Driving
[X] Boring [ ] Digging
[ ] Air percussion
[ ] Other, specify

Well Use

[ ] Public [ ] Commercial [ ] Not used
[ ] Domestic [ ] Municipal [ ] Dewatering
[ ] Livestock [ ] Test Hole [X] Monitoring
[ ] Irrigation [ ] Cooling & Air Conditioning
[ ] Industrial
[ ] Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.1	plastic	0.65	0	9.4

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.4	plastic	10	9.4	12.5

Status of Well

[ ] Water Supply
[ ] Replacement Well
[ ] Test Hole
[ ] Recharge Well
[ ] Dewatering Well
[X] Observation and/or Monitoring Hole
[ ] Alteration (Construction)
[ ] Abandoned, Insufficient Supply
[ ] Abandoned, Poor Water Quality
[ ] Abandoned, other, specify
[ ] Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water	Water found at Depth (m/ft)	Kind of Water
7 [ ] Gas	[X] Untested [ ] Other, specify		[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify
	[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify		[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	9.4	21
9.4	12.5	9.6

Results of Well Yield Testing

After test of well yield, water was:
[ ] Clear and sand free
[ ] Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

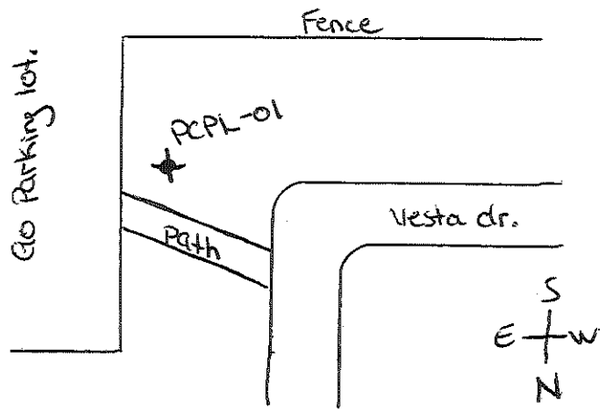
Well production (l/min / GPM)

Disinfected? [ ] Yes [ ] No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments: 2m north of fence line at 1155. 6m east of vesta dr.

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
GEO - ENVIRONMENTAL DRILLING	6607

Business Address (Street Number/Name)	Municipality
1 MANSEWOOD COURT	Halton Hills

Province	Postal Code	Business E-mail Address
ON	L7J0A1	estimates@geo-environmentaldrilling.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
9058763388	Collins Tim

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T3694		2017/12/20

Well owner's information package delivered: [ ] Yes [ ] No

Date Package Delivered: YYYY MM DD

Date Work Completed: 2017/12/18

Ministry Use Only

Audit No. Z255682

Received MAR 08 2018

DRAFT

© Queen's Printer for Ontario, 2014

Ontario

Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*

Tag#: A 241364

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
METROLINX		—	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
97 FRONT ST, WEST	TORONTO	ON	M5J1E6	4168774300

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
GO Station Parking Lot (PZ)	—	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
—	~~Pt~~ Port Credit	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614139	4823585	—	—

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand	Gravel	Soft	0	1.5
Grey	~~Sand~~ Silt clay	Sand/Silt	Soft	1.5	4.5
Grey	Silt	Gravel	Hard	4.5	5.3
		DT-2			

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	.3	Concrete	10kg.
.3	1.5	Bentonite Chips	40kg.

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☒ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☒ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.1	PVC	.64	0	1.5

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.41	PVC	10	1.5	5.3

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☒ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water	
☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	
Water found at Depth (m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	
Water found at Depth (m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	5.3	21

Well Contractor and Well Technician Information

Business Name of Well Contractor: GEO - ENVIRONMENTAL DRILLING

Well Contractor's Licence No.: 6860

Business Address (Street Number/Name): 1 MANSEWOOD COURT

Municipality: Halton Hills

Province: ON

Postal Code: L7J0A1

Business E-mail Address: estimates@geo-environmentaldrilling.com

Bus. Telephone No. *(inc. area code)*: 9058763388

Name of Well Technician (Last Name, First Name): Cvr. Shea Cvr.

Well Technician's Licence No.: 2410

Signature of Technician and/or Contractor:

Date Submitted: 2018/01/10

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

PLEASE SEE ATTACHED.

Comments:

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: 2018/01/10

Date Work Completed: 2018/01/10

Ministry Use Only

Audit No. Z266884

Received MAR 15 2018

0506E (2014/11)

Ministry's Copy

© Queen's Printer for Ontario, 2014

DRAFT

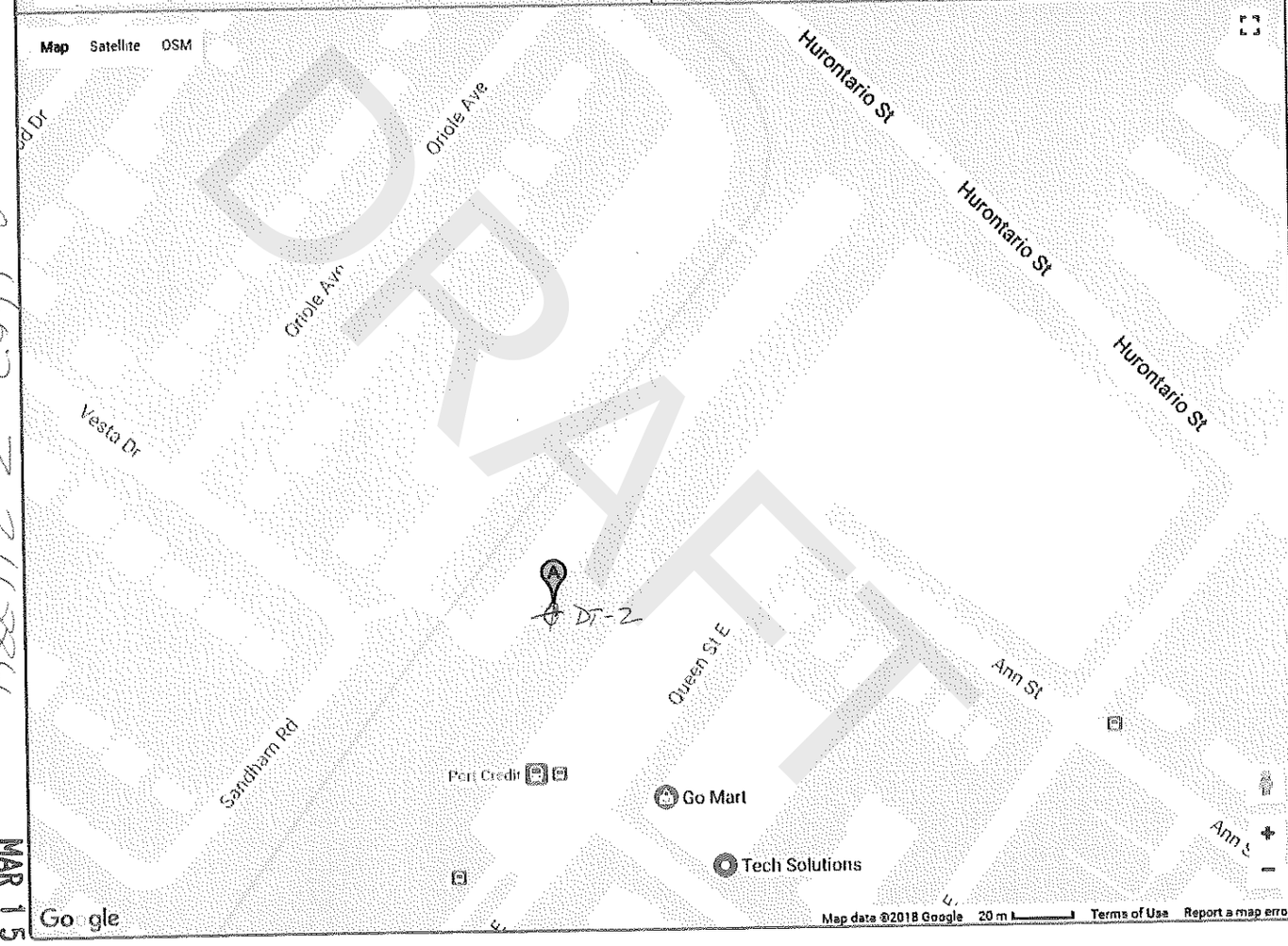
UTM N Hemis.	dd.ddddd°	dd° mm.mmm'	dd° mm' ss.s"
17 T 614139 x-ea.	Latitude: 43.55649 °N	43 ° 33.389 ' N	43 ° 33 ' 23.4 " N
4823585 y-no.	Longitude: -79.58685 °E	79 ° 35.211 ' W	79 ° 35 ' 12.7 " W
ok	ok	ok	ok

postal address or point of interest (poi) --> ok

elevation in m

WP01-A edit

<< < 01-A > >>



POI / WPT / Waypoints

*01-A "WP01-A" added
17 T 614139 4823585
43.55649°N -79.58685°E
Elevation= (quota exceeded)

**all waypoints removed...

remove 01-A | remove all WPTs
download WPTs | download Route
Browse... No file selected.
upload WPTs | upload Route

C-6607 Z-266884

MAR 1 5 2018

DRAFT

Ontario

Ministry of the Environment and Climate Change

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* A232662 PCPL-3

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
—	METROLINX		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
97 FRONT ST. WEST	TORONTO	ON	M5J1E6	4168714159 06

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Port Credit Go Station	—	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
—	Port Credit	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614119	4812315	—	—

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand	gravel	Fill	0	.7
Brown	Sand	silt	soft	.7	3.2
Brown/Red	silt	Shale	Dense / layered	3.2	7.6
Red/Grey	Shale	limestone	Bedrock	7.6	12.2

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed (m^3/ft^3)
0	.3	Concrete	
.3	7.6	Bentonite chips.	
7.6	8.9	Bentonite Pellets.	

Method of Construction

☐ Cable Tool ☑ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☑ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter *(cm/in)*	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness *(cm/in)*	Depth (m/ft) From	Depth (m/ft) To
5.1	Plastic	.65	0	9.2

Construction Record - Screen

Outside Diameter *(cm/in)*	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.4	Plastic	10	9.2	12.2

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: Fresh	Untested	Other, *specify*
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐

Hole Diameter

Depth (m/ft) From	To	Diameter *(cm/in)*
0	7.6	21
7.6	12.2	9.6

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☑ Yes ☐ No

	Draw Down Time *(min)*	Draw Down Water Level *(m/ft)*	Recovery Time *(min)*	Recovery Water Level *(m/ft)*
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

* Map attached

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
GEO - ENVIRONMENTAL DRILLING	6607

Business Address (Street Number/Name)	Municipality
1 MANSEWOOD COURT	Halton Hills

Province	Postal Code	Business E-mail Address
ON	L7J0A1	estimates@geo-environmentaldrilling.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9058763388	King, Kyle

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
31605		2018 02 03

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	YYYY MM DD	2018 02 03

Ministry Use Only

Audit No. Z266994

APR 17 2018

Received

DRAFT

© Queen's Printer for Ontario, 2014

Geoplaner V2.8 - [in English | auf deutsch]

UTM	N ▼ Hemis.	dd.ddddd°	dd° mm.mmm'	dd° mm' ss.s"	POI / WPT / Waypoints
17 T	614119 x-ea.	Latitude: 43.55649 °N	43 ° 33.389 ' N ▼	43 ° 33 ' 23.4 " N ▼	
	4823585 y-no.	Longitude: -79.58710 °E	79 ° 35.226 ' W ▼	79 ° 35 ' 13.6 " W ▼	
	ok	ok	ok	ok	

*02-B "WP02-B" added
17 T 614119 4823585
43.55649°N -79.58710°E
Elevation= 83.8m

*01-A "WP01-A" added
17 T 614137 4823528
43.55598°N -79.58689°E
Elevation= 85.7m

*"Port Credit Go Station, Port Credit, ON Canada" ->
30 Queen St E, Mississauga, ON L5G 3B7, Canada

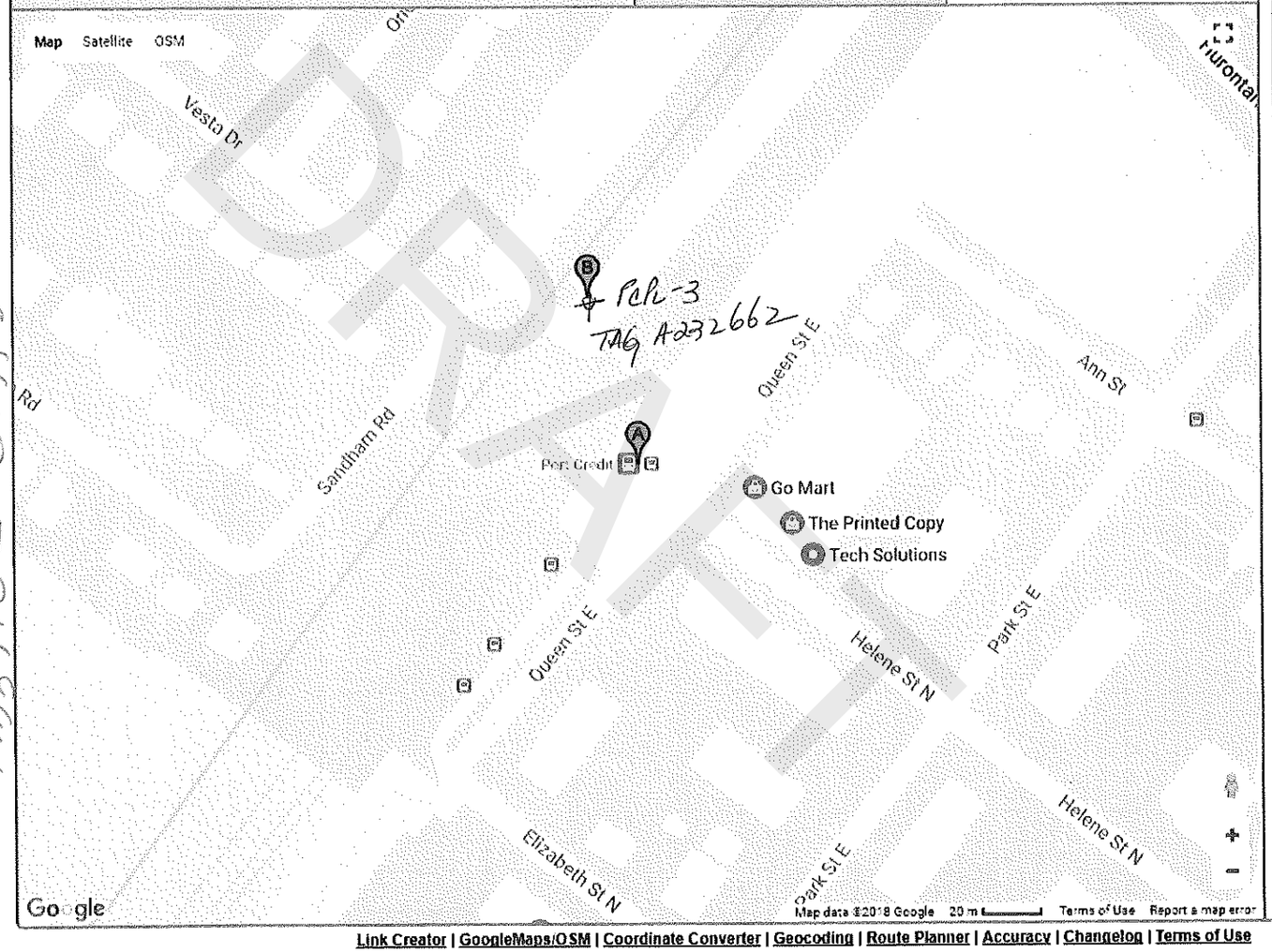
**all waypoints removed...

remove 02-B | remove all WPTs
download WPTs | download Route
Choose File | No file chosen
upload WPTs | upload Route

postal address or point of interest (poi) -->
Port Credit Go Station, Port Credit, ON Canada | ok

elevation in m ▼
83.8

WP02-B edit
<< < 02-B > >>



Link Creator | GoogleMaps/OSM | Coordinate Converter | Geocoding | Route Planner | Accuracy | Changelog | Terms of Use

Park-3
TAG A232662

APR 17 2018

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No. *(Place Sticker and/or Print Below)*: Tag#: A 232817

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	[ ] Well Constructed by Well Owner
—	Metrolinx	—	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
277 FRONT ST., W	TORONTO	ON	M5V2Y4	—

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Port Credit Go Station	—	—	

County/District/Municipality	City/Town/Village	Province	Postal Code
—	Port Credit	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	617412	4823590	—	—

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand	Gravel	Soft	0	1.5
Grey	~~Silt~~ Clay	Silt	Soft	1.5	6.0
Grey	Silt	Gravel	Hard	6.0	9.1
Grey	Limestone	Bed rock	Hard	9.1	15.2

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	.3	Concrete	10kg.
.3	11.8	BENTONITE CHIPS	280kg

Method of Construction

[ ] Cable Tool [X] Diamond
[ ] Rotary (Conventional) [ ] Jetting
[ ] Rotary (Reverse) [ ] Driving
[X] Boring [ ] Digging
[ ] Air percussion
[ ] Other, *specify*

Well Use

[ ] Public [ ] Commercial [ ] Not used
[ ] Domestic [ ] Municipal [ ] Dewatering
[ ] Livestock [ ] Test Hole [X] Monitoring
[ ] Irrigation [ ] Cooling & Air Conditioning
[ ] Industrial
[ ] Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.1	PVC	.65	0	12.1

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.4	PVC	10	12.1	15.2

Status of Well

[ ] Water Supply
[ ] Replacement Well
[ ] Test Hole
[ ] Recharge Well
[ ] Dewatering Well
[X] Observation and/or Monitoring Hole
[ ] Alteration (Construction)
[ ] Abandoned, Insufficient Supply
[ ] Abandoned, Poor Water Quality
[ ] Abandoned, other, *specify*
[ ] Other, *specify*

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: Fresh / Untested / Other, specify
N/A	[ ]	[ ] [ ] [ ]
	[ ]	[ ] [ ] [ ]
	[ ]	[ ] [ ] [ ]

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	9.1	21
9.1	15.2	9.6

Results of Well Yield Testing

After test of well yield, water was: [ ] Clear and sand free [ ] Other, *specify*

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

Well production (l/min / GPM)

Disinfected? [ ] Yes [ ] No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.

See map.

Comments: BH 1

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
GEO - ENVIRONMENTAL DRILLING	6607

Business Address (Street Number/Name)	Municipality
1 MANSEWOOD COURT	Halton Hills

Province	Postal Code	Business E-mail Address
ON	L7J0A1	estimates@geo-environmentaldrilling.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9058763388	Creighton, Ryan

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2461		2018/11/30

Well owner's information package delivered: [ ] Yes [ ] No

Date Package Delivered: YYYY MM DD

Date Work Completed: 2018/11/19

Ministry Use Only

Audit No. Z266906

Received NOV 07 2018

0506E (2014/11)

Ministry's Copy

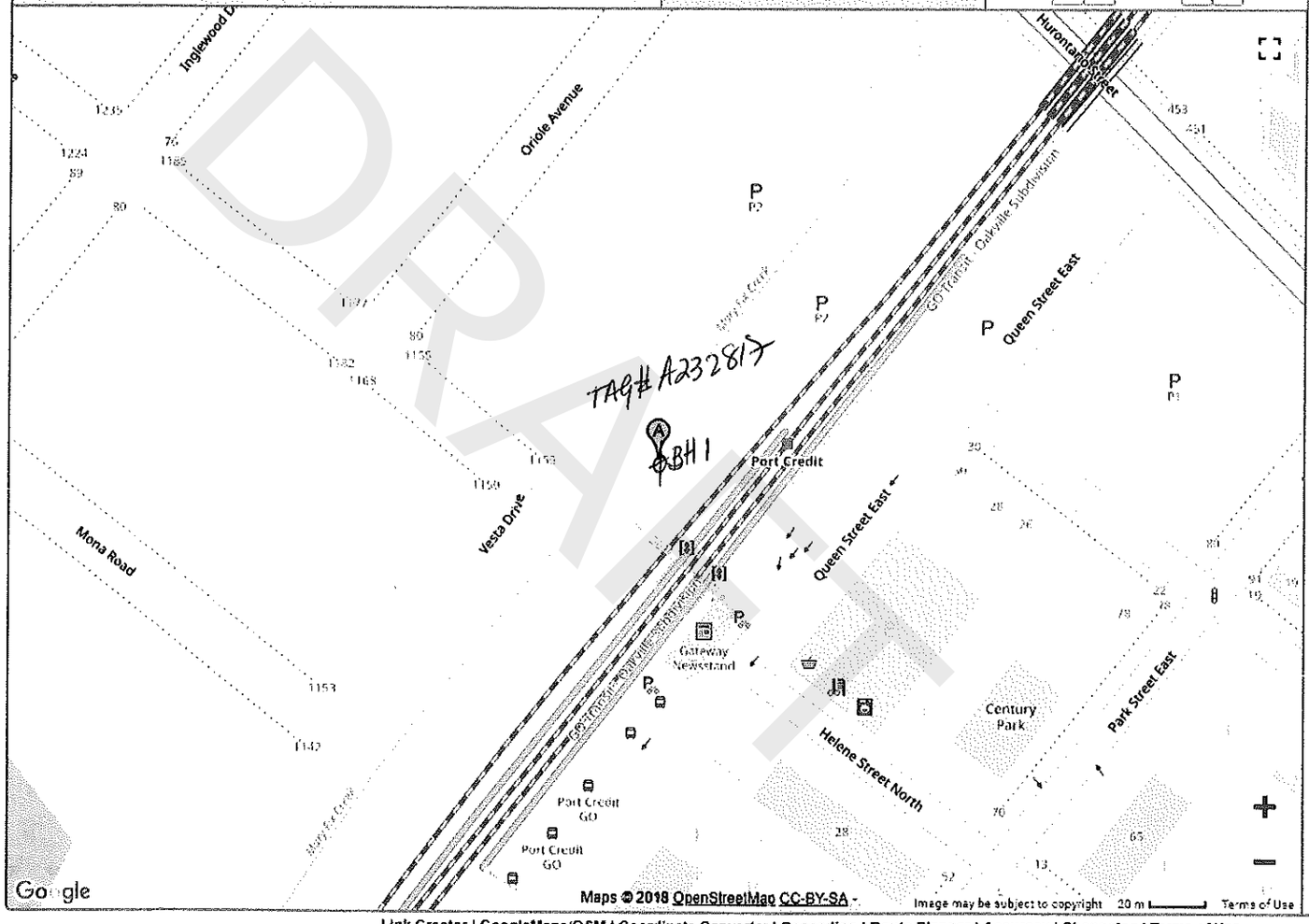
© Queen's Printer for Ontario, 2014

DRAFT

Geoplaner V2.8 - [in English | auf deutsch]

UTM N ▼ Hemis.	dd.ddddd°	dd° mm.mmm'	dd° mm' ss.s"
17 T 614120 x-ea.	Latitude: 43.55654 °N	43 ° 33.392 ' N ▼	43 ° 33 ' 23.5 " N ▼
4823590 y-no.	Longitude: -79.58709 °E	79 ° 35.225 ' W ▼	79 ° 35 ' 13.5 " W ▼
ok	ok	ok	ok

postal address or point of interest (poi) -->	elevation in m ▼	WP01-A edit
ok	83.6	<< < 01-A > >>



TAG# A232817

BH1

POI / WPT / Waypoints

*01-A "WP01-A" added
17 T 614120 4823590
43.55654°N -79.58709°E
Elevation= 83.6m

**all waypoints removed...

remove 01-A | remove all WPTs
download WPTs | download Route
Choose File No file chosen
upload WPTs | upload Route

Link Creator | GoogleMaps/OSM | Coordinate Converter | Geocoding | Route Planner | Accuracy | Changelog | Terms of Use

DRAFT

NOV 07 2018

C-6607 2266906

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No. *(Place Sticker and/or Print Below)*: Tag#: A 232825

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	[ ] Well Constructed by Well Owner
—	Metrolinx	—	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
277 FRONT ST, W	TORONTO	ON	M5V 2X4	—

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Port Credit GO station	—	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
—	Port Credit	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614162	4823577	—	—

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand	Gravel	Soft	0	1.5
Grey	Clay	Silt	Soft	1.5	6.0
Grey	Silt	Gravel	Hard	6.0	9.1
Grey	Limestone	Bedrock	Hard	9.1	15.2

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	.3	Concrete	10kg
.3	11.8	Bentonite Chips	280kg

Method of Construction

[ ] Cable Tool [X] Diamond
[ ] Rotary (Conventional) [ ] Jetting
[ ] Rotary (Reverse) [ ] Driving
[X] Boring [ ] Digging
[ ] Air percussion
[ ] Other, specify

Well Use

[ ] Public [ ] Commercial [ ] Not used
[ ] Domestic [ ] Municipal [ ] Dewatering
[ ] Livestock [ ] Test Hole [X] Monitoring
[ ] Irrigation [ ] Cooling & Air Conditioning
[ ] Industrial
[ ] Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.1	PVC	.65	0	12.1

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.4	PVC	10	12.1	15.2

Status of Well

[ ] Water Supply
[ ] Replacement Well
[ ] Test Hole
[ ] Recharge Well
[ ] Dewatering Well
[X] Observation and/or Monitoring Hole
[ ] Alteration (Construction)
[ ] Abandoned, Insufficient Supply
[ ] Abandoned, Poor Water Quality
[ ] Abandoned, other, specify
[ ] Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water	Hole Diameter Depth From (m/ft)	Depth To (m/ft)	Diameter (cm/in)
N/A [ ] Gas	[ ] Fresh [ ] Untested [ ] Other, specify	0	9.1	21
(m/ft) [ ] Gas	[ ] Fresh [ ] Untested [ ] Other, specify	9.1	15.2	9.6
(m/ft) [ ] Gas	[ ] Fresh [ ] Untested [ ] Other, specify			

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
GEO - ENVIRONMENTAL DRILLING	6607

Business Address (Street Number/Name)	Municipality
1 MANSEWOOD COURT	Halton Hills

Province	Postal Code	Business E-mail Address
ON	L7J0A1	estimates@geo-environmentaldrilling.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
9058763388	Creighton, Ryan

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
24617		2018 / 10 / 31

Results of Well Yield Testing

After test of well yield, water was:
[ ] Clear and sand free
[ ] Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

Well production (l/min / GPM)

Disinfected? [ ] Yes [ ] No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

See map

Comments: BH3

Well owner's information package delivered: [X] Yes [ ] No

Date Package Delivered: 2018 / 10 / 31

Date Work Completed: 2018 / 10 / 18

Ministry Use Only

Audit No. Z 266905

Received NOV 07 2018

DRAFT

Ministry's Copy

© Queen's Printer for Ontario, 2014

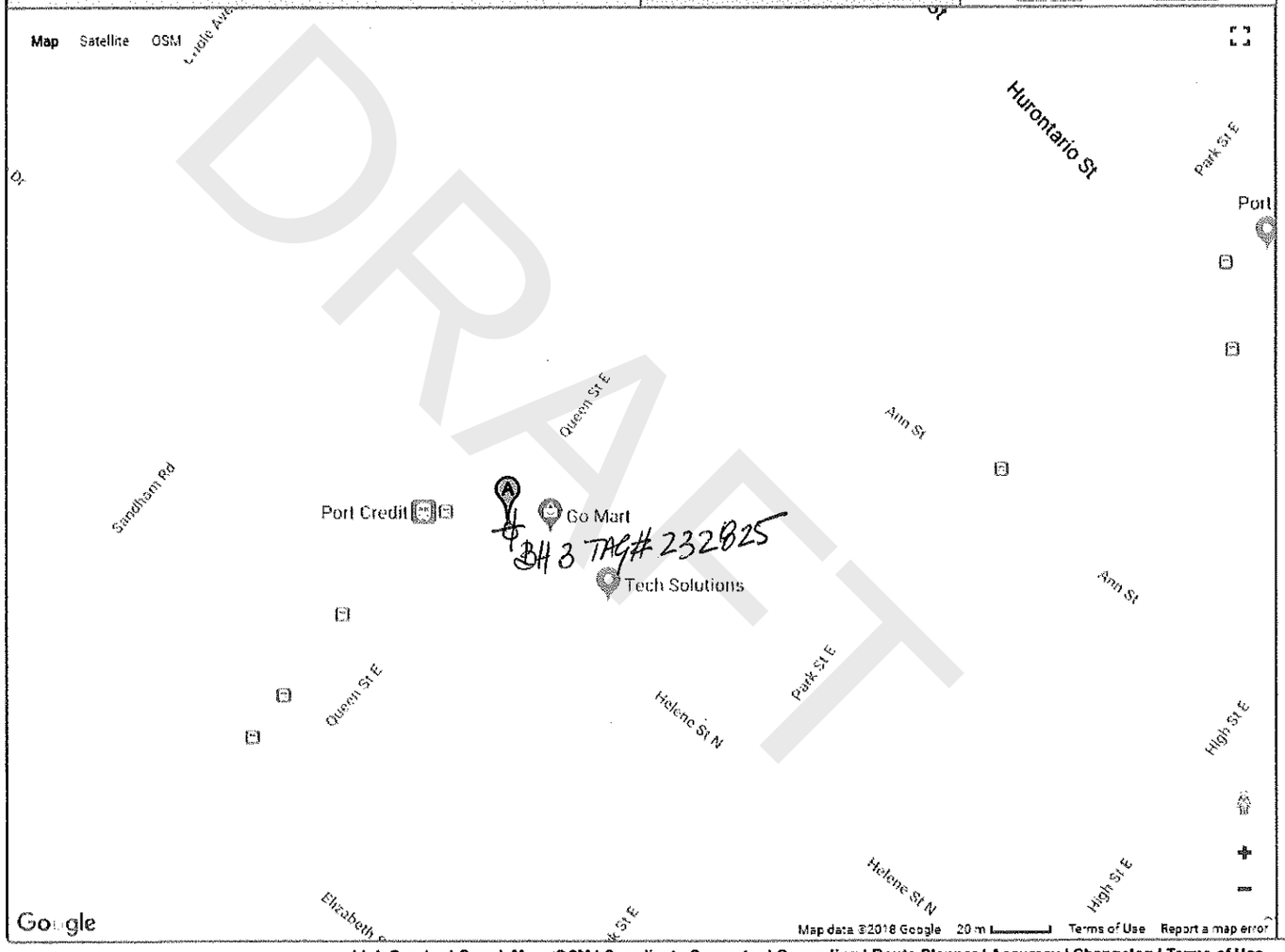
Geoplaner V2.8 - [in English | auf deutsch]

UTM	N ▾ Hemis.	dd.ddddd°	dd° mm.mmm'	dd° mm' ss.s"
17 T	614162 x-ea.	Latitude 43.55596 °N	43 ° 33.358 ' N ▾	43 ° 33 ' 21.5 " N ▾
	4823527 y-no.	Longitude -79.58658 °E	79 ° 35.195 ' W ▾	79 ° 35 ' 11.7 " W ▾
	ok	ok	ok	ok

postal address or point of interest (poi) --> ok

elevation in m ▾ **82.1**

WP01-A edit << < **01-A** > >>



POI / WPT / Waypoints

*01-A "WP01-A" added
17 T 614162 4823527
43.55596°N -79.58658°E
Elevation= 82.1m

**all waypoints removed...

remove 01-A | remove all WPTs
download WPTs | download Route
Choose File | No file chosen
upload WPTs | upload Route

Link Creator | GoogleMaps/OSM | Coordinate Converter | Geocoding | Route Planner | Accuracy | Changelog | Terms of Use

DRAFT

NOV 0 7 2018 C-6607 2764905

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No. *(Place Sticker and/or Print Below)*: Tag#: A 232747

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	[ ] Well Constructed by Well Owner
–	Metrolinx	–	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
277 FRONT ST. W	TORONTO	ON	M5V 2X4	–

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Port Credit GO Station	–	–	–

County/District/Municipality	City/Town/Village	Province	Postal Code
–	Port Credit	Ontario	–

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614073	4823449	–	–

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand	Gravel	Soft	0	1.5
Grey	Clay	Silt	Soft	1.5	3.0
Brown	Sand	Silt	Soft	3.0	4.5

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	.3	Concrete	10 kg.
.3	1.5	Bentonite Chip.	20 kg.

Method of Construction

[ ] Cable Tool [ ] Diamond
[ ] Rotary (Conventional) [ ] Jetting
[ ] Rotary (Reverse) [ ] Driving
[X] Boring [ ] Digging
[ ] Air percussion
[ ] Other, *specify* _____

Well Use

[ ] Public [ ] Commercial [ ] Not used
[ ] Domestic [ ] Municipal [ ] Dewatering
[ ] Livestock [ ] Test Hole [ ] Monitoring
[ ] Irrigation [ ] Cooling & Air Conditioning
[ ] Industrial
[ ] Other, *specify* _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.1	PVC	.65	0	1.5

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.4	PVC	10	1.5	4.5

Status of Well

[ ] Water Supply
[ ] Replacement Well
[ ] Test Hole
[ ] Recharge Well
[ ] Dewatering Well
[X] Observation and/or Monitoring Hole
[ ] Alteration (Construction)
[ ] Abandoned, Insufficient Supply
[ ] Abandoned, Poor Water Quality
[ ] Abandoned, other, *specify*
[ ] Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water	
	[ ] Gas	[ ] Fresh [ ] Untested [ ] Other, *specify*
	[ ] Gas	[ ] Fresh [ ] Untested [ ] Other, *specify*
	[ ] Gas	[ ] Fresh [ ] Untested [ ] Other, *specify*

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	4.5	15

Results of Well Yield Testing

After test of well yield, water was:
[ ] Clear and sand free
[ ] Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping _____ hrs + _____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

Well production (l/min / GPM)

Disinfected? [ ] Yes [ ] No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.

See map.

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
GEO - ENVIRONMENTAL DRILLING	6607

Business Address (Street Number/Name)	Municipality
1 MANSEWOOD COURT	Halton Hills

Province	Postal Code	Business E-mail Address
ON	L7J0A1	estimates@geo-environmentaldrilling.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
9058763388	Creighton, Ryan

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2461		2018 11 03

Comments: BH4

Well owner's information package delivered: [ ] Yes [ ] No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2018 11 09

Ministry Use Only

Audit No. Z266907

Received NOV 07 2018

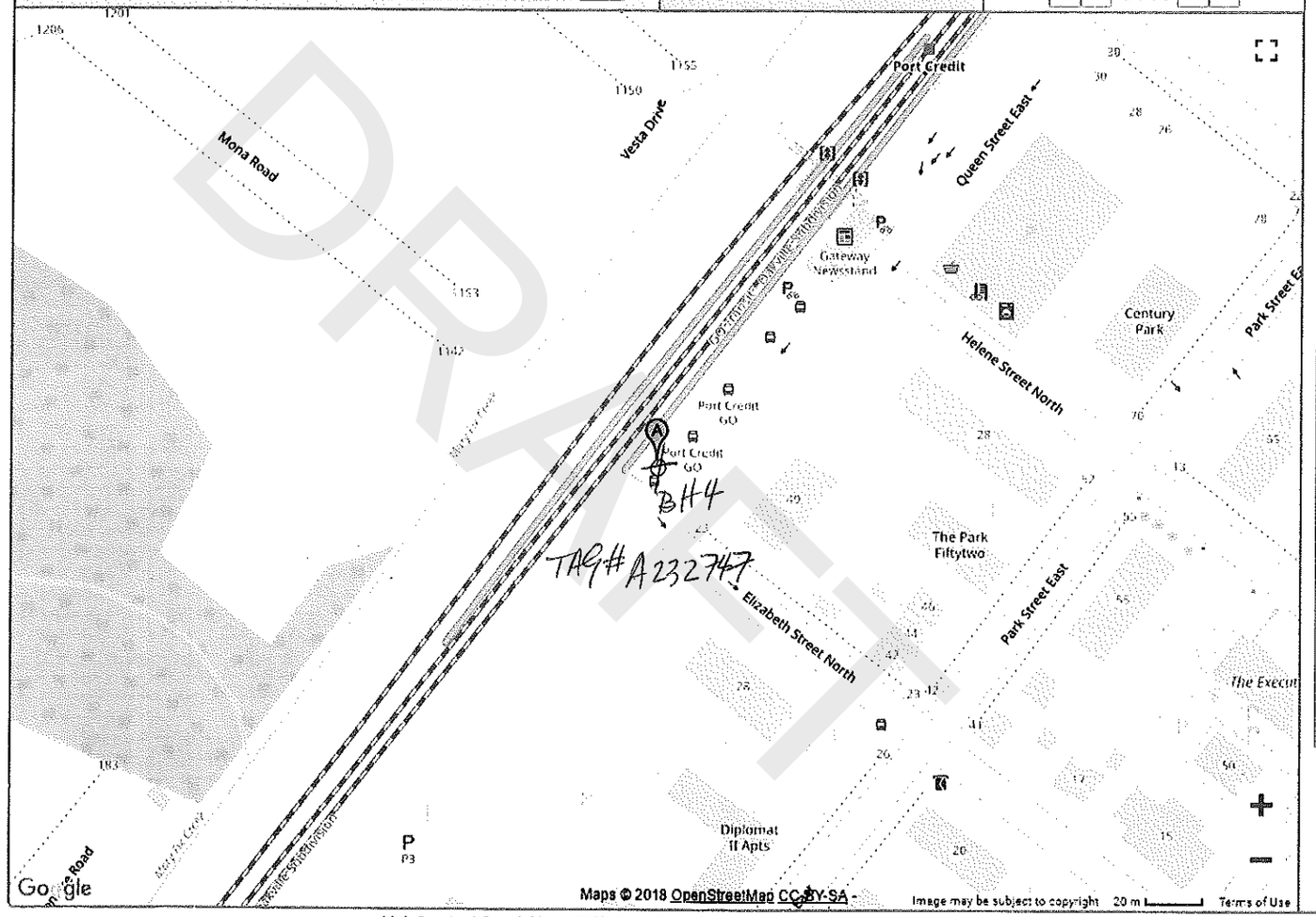
DRAFT

© Queen's Printer for Ontario, 2014

Geoplaner V2.8 - [in English | auf deutsch]

UTM N ▼ Hemis.	dd.ddddd°	dd° mm.mmm'	dd° mm' ss.s"
17 T 614073 x-ea.	Latitude: 43.55528 °N	43 ° 33.317 ' N ▼	43 ° 33 ' 19.0 " N ▼
4823449 y-no.	Longitude: -79.58770 °E	79 ° 35.262 ' W ▼	79 ° 35 ' 15.7 " W ▼
ok	ok	ok	ok

postal address or point of interest (poi) -->	elevation in m ▼	WP01-A edit
ok	86.0	<< < 01-A > >>



POI / WPT / Waypoints

*01-A "WP01-A" added
17 T 614073 4823449
43.55528°N -79.58770°E
Elevation= 86.0m

**all waypoints removed...

remove 01-A | remove all WPTs
download WPTs | download Route
Choose File No file chosen
upload WPTs | upload Route

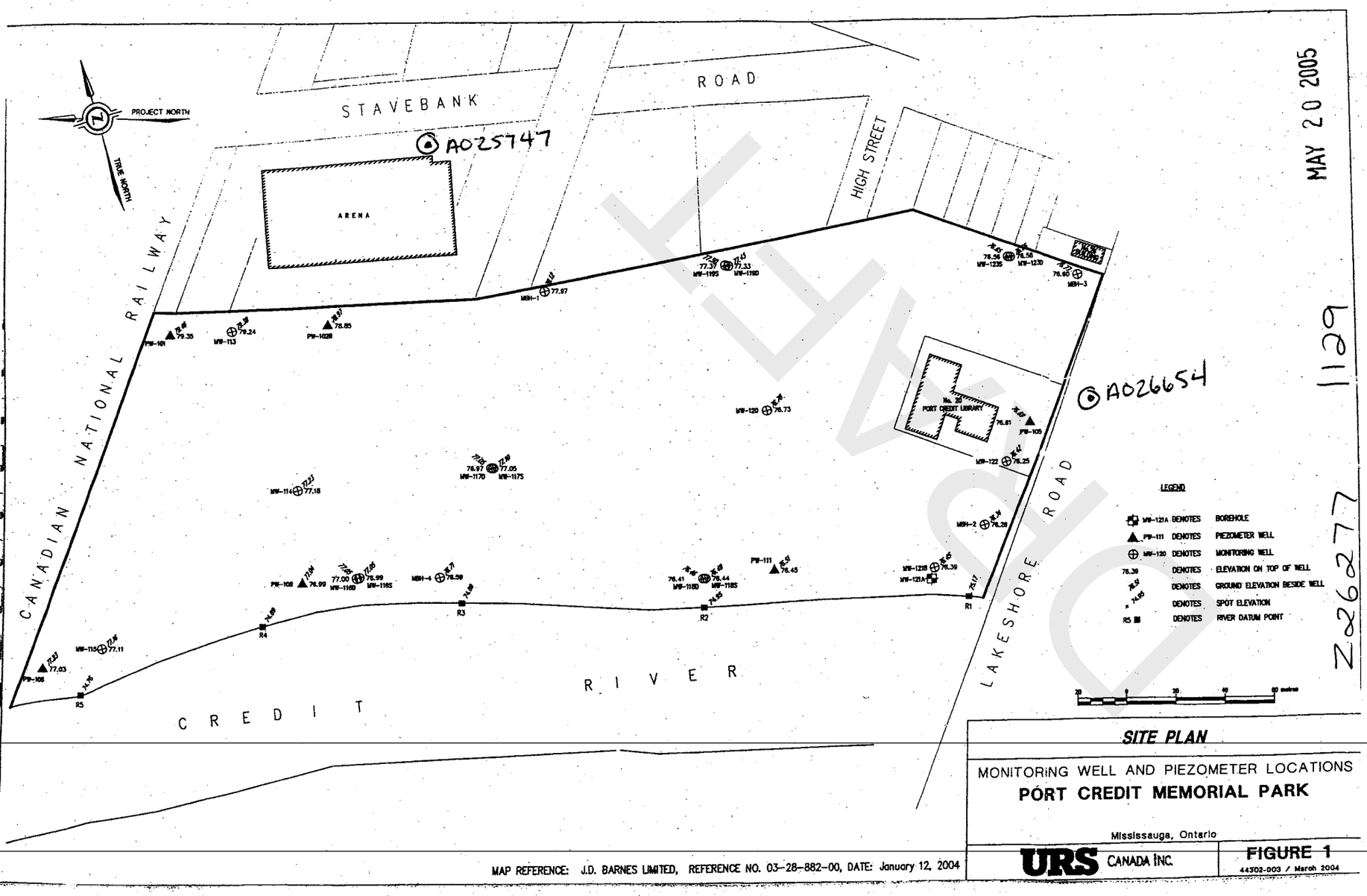
Link Creator | GoogleMaps/OSM | Coordinate Converter | Geocoding | Route Planner | Accuracy | Changelog | Terms of Use

DRAFT

NOV 07 2018

C-6607
Z266907

Appendix F-6 195



MAY 20 2005

1129

Z262777

SITE PLAN

MONITORING WELL AND PIEZOMETER LOCATIONS

PORT CREDIT MEMORIAL PARK

Mississauga, Ontario

URS CANADA INC.

FIGURE 1

44302-003 / March 2004

MAP REFERENCE: J.D. BARNES LIMITED, REFERENCE NO. 03-28-882-00, DATE: January 12, 2004

94-10-05 #2

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 4907920 | MUNICIP. 49604 | CON. C I R | R | 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON, BLOCK, TRACT, SURVEY, ETC	LOT
PEEL	MISSISSAUGA	2 SDS	14 or 15

OWNER (SURNAME FIRST)	ADDRESS	DATE COMPLETED
KAL DIXON CONSTRUCTION	160 LAKESHORE RD MISS. EAST	DAY 7 MO OCT YR 94

21 | UTM ZONE | EASTING | NORTHING | RC | ELEVATION | RC | BASIN CODE | II | III | IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
BROWN	TILL	SILT	DENSE	0	17.5
BROWN	SAND	GRAVEL	DENSE	17.5	19

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
17	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
SCHEDULE 40	2 INCHES	5 FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN
PVC	14 12.5 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
12	13	HOLE PLUG
2	3	HOLE PLUG
0	2	CEMENT

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
NA 1 ☐ PUMP 2 ☐ BAILER	GPM	HOURS MINS

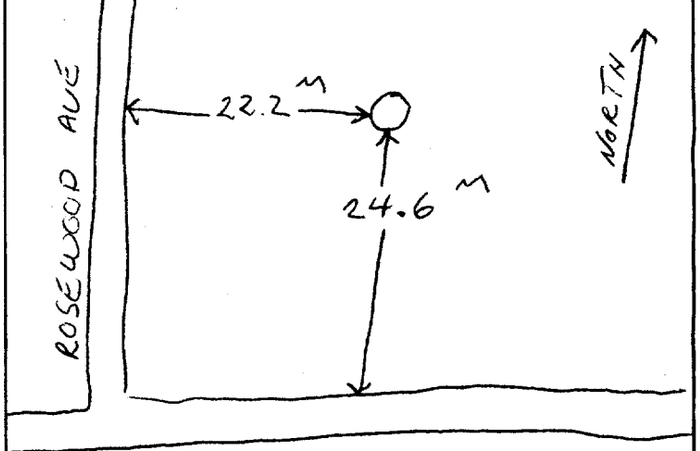
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
FEET	FEET	1 ☐ PUMPING 2 ☐ RECOVERY	FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☐ DEEP	FEET	GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS: 148110

FINAL STATUS OF WELL	1 ☐ WATER SUPPLY 2 ☑ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED ☐ DEWATERING
WATER USE	1 ☐ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☑ NOT USED
METHOD OF CONSTRUCTION	1 ☐ CABLE TOOL 2 ☑ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR	WELL CONTRACTOR'S LICENCE NUMBER
DSIL DRILLING	1839

ADDRESS
104 CROCKFORD BLVD SCARBOROUGH

NAME OF WELL TECHNICIAN	WELL TECHNICIAN'S LICENCE NUMBER
L SEDDON	T-2201

SIGNATURE OF TECHNICIAN/CONTRACTOR	SUBMISSION DATE
L Seddon	DAY 04 MO 11 YR 94

OFFICE USE ONLY

DATA SOURCE	CONTRACTOR	DATE RECEIVED
	1839	NOV 10 1994

DATE OF INSPECTION	INSPECTOR

REMARKS:

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

DRAFT

14-10-DS #4

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 4907922 | MUNICIP 49604 | CON. CIR R 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON BLOCK TRACT SURVEY ETC	LOT
PEEL	MISSISSAUGA	2 SDS	~~11~~ or 15

OWNER (SURNAME FIRST)	ADDRESS	DATE COMPLETED
KAL DIXON CONSTRUCTION	160 LAKESHORE RD MISS. EAST	DAY 7 MO OCT YR 94

21 | UTM ZONE | EASTING | NORTHING | RC | ELEVATION | RC | BASIN CODE I II III IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
BROWN	TILL	CLAY	DENSE	0	2
BROWN	TILL	SILT	DENSE	2	12
GREY	TILL	SILT	DENSE	12	14

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
13	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

N/A

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
SCHEDULE 40	2 INCHES	10 FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN
PVC	4 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC)
2	3	HOLE PLUG
0	2	CEMENT

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
N/A 1 ☐ PUMP 2 ☐ BAILER	GPM	HOURS MINS

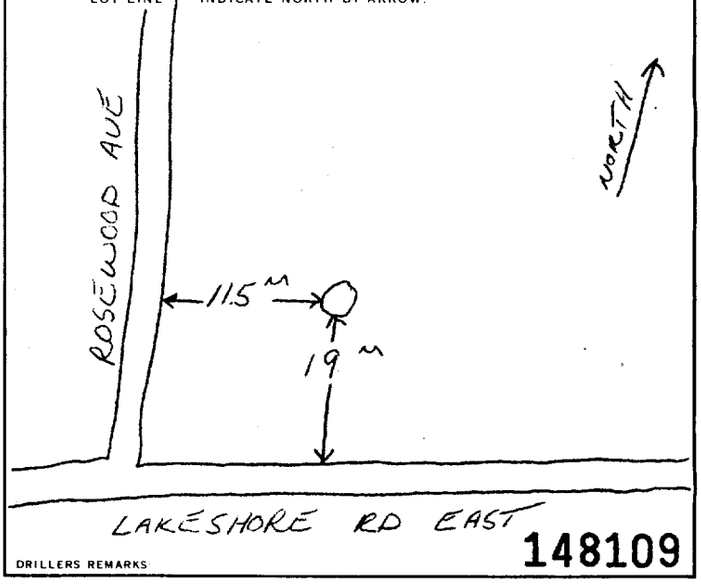
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING 1 ☐ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
FEET	FEET		FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☐ DEEP	FEET	GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS 148109

FINAL STATUS OF WELL	1 ☐ WATER SUPPLY 2 ☑ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED ☐ DEWATERING
WATER USE	1 ☐ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☑ NOT USED
METHOD OF CONSTRUCTION	1 ☐ CABLE TOOL 2 ☑ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR	WELL CONTRACTOR'S LICENCE NUMBER
DSIC DRILLING	1839

ADDRESS	NAME OF WELL TECHNICIAN	WELL TECHNICIAN'S LICENCE NUMBER
104 CROCKFORD BLVD SCARBOROUGH	L. SEDDON	T-2201

SIGNATURE OF TECHNICIAN/CONTRACTOR	SUBMISSION DATE
L. Seddon	DAY 04 MO 11 YR 94

OFFICE USE ONLY

DATA SOURCE	CONTRACTOR	DATE RECEIVED
	1839	NOV 10 1994

DATE OF INSPECTION	INSPECTOR

REMARKS

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

DRAFT

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 — 4907923 — MUNICIP. 49604 — CON. C I R — R 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
PEEL	MISSISSAUGA	2 SDS	14 or 15

OWNER (SURNAME FIRST)	ADDRESS	DATE COMPLETED
KAL DIXON CONSTR.	160 LAKE SHORE RD EAST	DAY 7 MO OCT YR 94

21 — UTM ZONE — EASTING — NORTHING — RC — ELEVATION — RC — BASIN CODE — II — III — IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
BROWN	TILL	SILT	DENSE	0	14
GREY	SAND	GRAVEL	DENSE	14	22.5

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
22	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 N/A CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
SCHEDULE 40	2 INCHES	5 FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN
PVC	17.5 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
15	16	HOLE PLUG
2	3	HOLE PLUG
0	2	CEMENT.

71 PUMPING TEST

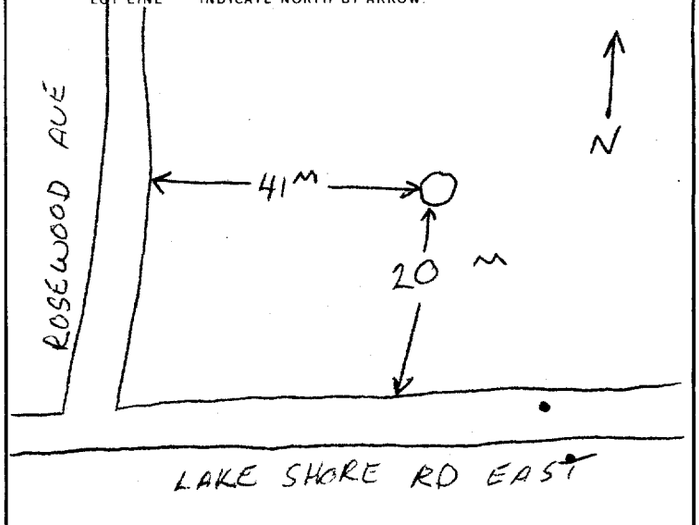
PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
N/A 1 ☐ PUMP 2 ☐ BAILER	GPM	HOURS MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING 1 ☐ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
FEET	FEET		FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST	RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
GPM	FEET	1 ☐ CLEAR 2 ☐ CLOUDY	☐ SHALLOW ☐ DEEP	FEET	GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS: 148124

FINAL STATUS OF WELL

1 ☐ WATER SUPPLY 2 ☑ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED ☐ DEWATERING

WATER USE

1 ☐ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☑ NOT USED

METHOD OF CONSTRUCTION

1 ☐ CABLE TOOL 2 ☑ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR	WELL CONTRACTOR'S LICENCE NUMBER
DSIL DRILLING	1839

ADDRESS	
104 CROCKFORD BLVD	

NAME OF WELL TECHNICIAN	WELL TECHNICIAN'S LICENCE NUMBER
L SEDDON	T2201

SIGNATURE OF TECHNICIAN/CONTRACTOR	SUBMISSION DATE
L Seddon	DAY 04 MO 11 YR 94

OFFICE USE ONLY

DATA SOURCE	CONTRACTOR	DATE RECEIVED
	1839	NOV 10 1994

DATE OF INSPECTION	INSPECTOR

REMARKS

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

DRAFT

14699

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. (Place Sticker and/or Print Below): DECOMMISSION A195287

Well Record

Regulation 903 Ontario Water Resources Act

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	SCOTIABANK REAL ESTATE		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
44 KING STREET WEST	TORONTO	ON	M5H1H1	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
158 LAKESHORE RD E	Toronto	A	Range 1

County/District/Municipality	City/Town/Village	Province	Postal Code
PEEL (Mississauga)	MISSISSAUGA	Ontario	L5G1E9

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614608	4823609		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	DECOMMISSIONED	PER MOE 903.21			
	ALL WELL MATERIALS REMOVED				
	SEALED ENTIRE DEPTH				

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0.0	2.4	BENTONITE	
	2.4	EOH	

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.0	PVC		0.0	0.9

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.3	PVC	0.010"	0.9	2.4

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☒ Abandoned, other, *specify* CLIENT REQUEST ☐ Other, *specify*

Water Details

Water found at Depth	Kind of Water	
1.5 (m/ft) ☐ Gas	☐ Fresh ☑ Untested ☐ Other, *specify*	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

MAP ATTACHED

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
SONIC SOIL SAMPLING INC.	7147

Business Address (Street Number/Name)	Municipality
668 MILLWAY AVENUE	YORK

Province	Postal Code	Business E-mail Address
ONTARIO	L4K 3V2	sonic@sonicsoil.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
9056600501	ARCHIBALD, ALAN

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2881		2017/03/28

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No		2017/03/28

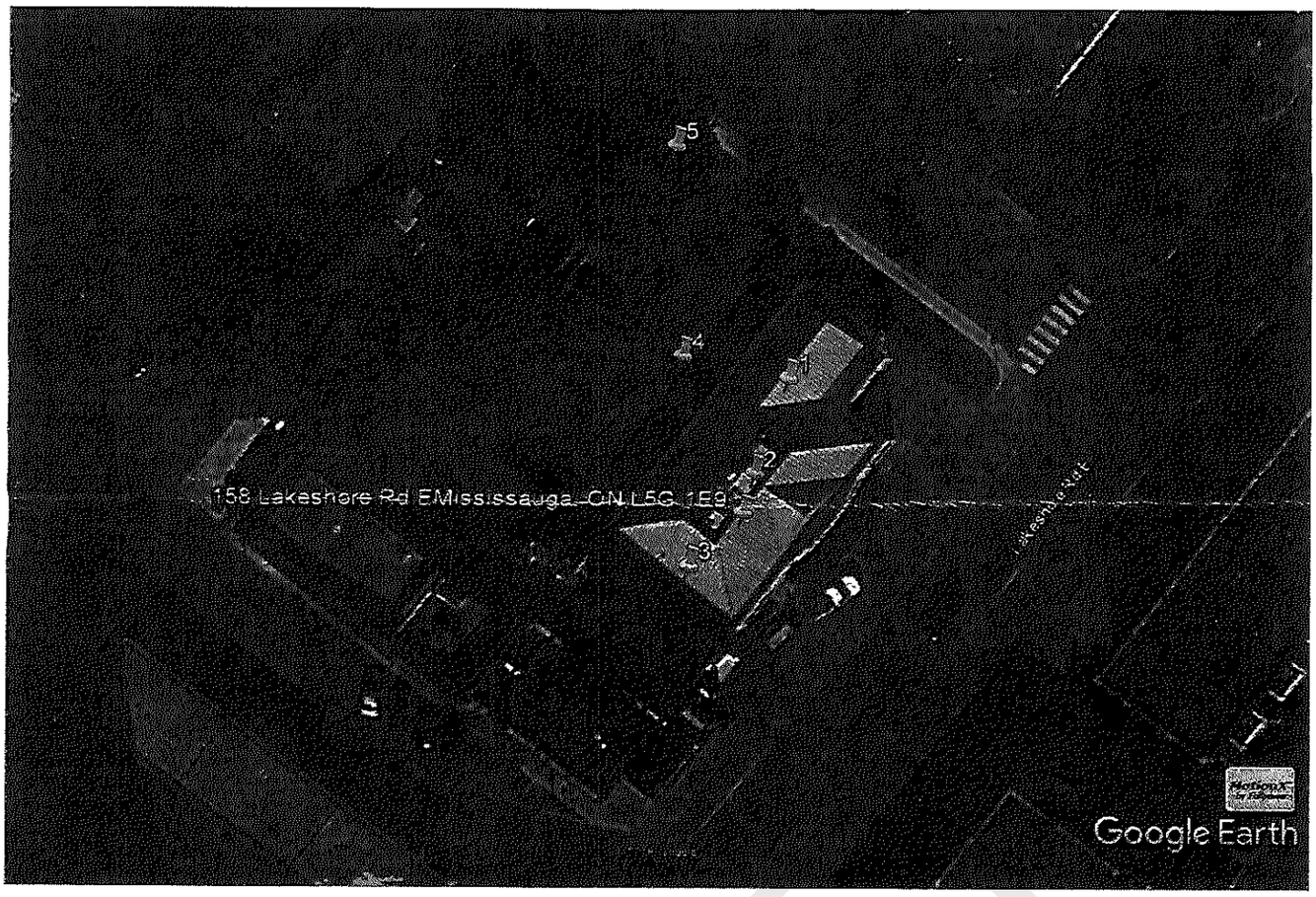
Ministry Use Only

Audit No. Z246111

RECEIVED APR 07 2017

DRAFT

© Queen's Printer for Ontario, 2014



Google Earth

feet 200
meters 60

DRAFT

APR 07 2017

C-747
2246111

Ontario 14679

Ministry of the Environment and Climate Change

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* DECOMMISSION

Well Record

Regulation 903 Ontario Water Resources Act

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	SCOTIABANK REAL ESTATE		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
44 KING STREET WEST	TORONTO	ON	M5H 1H1	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
158 LAKESHORE ROAD EAST	Toronto	A	Range 1

County/District/Municipality	City/Town/Village	Province	Postal Code
PEEL (Mississauga)	MISSISSAUGA	Ontario	L5G 1E9

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614689	4827589		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	- DECOMMISSIONED, PER MOE REG 903-21				
	- ALL WELL MATERIALS REMOVED				
	- SEALED ENTIRE DEPTH				

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0.0	4.2	BENTONITE	
	4.2	EOH	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.0	PVC		0.0	3.0

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.3	PVC	0.010"	3.0	4.2

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☑ Abandoned, other, *specify* COST REQUEST
☐ Other, *specify*

Water Details

Water found at Depth	Kind of Water	Hole Diameter Depth From	Hole Diameter Depth To	Hole Diameter (cm/in)
1.5 (m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

Comments: MAP ATTACHED.

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
SONIC SOIL SAMPLING INC.	7147

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
668 MILLWAY AVENUE	YORK	ONTARIO	L4K 3V2	sonic@sonicsoil.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
9056600501	ARCHIBALD, ALAN	2881		2017/03/28

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No		2017/03/28

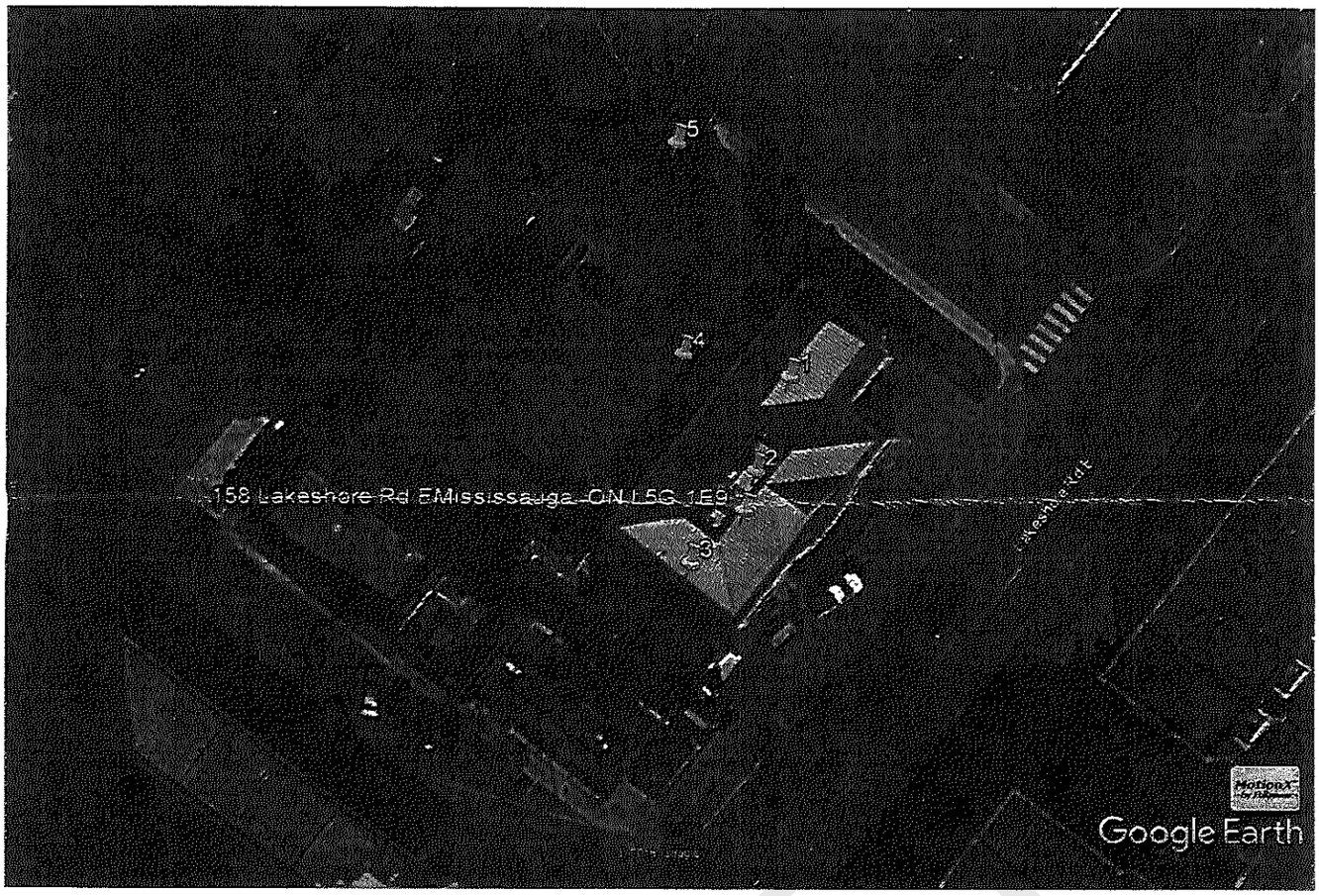
Ministry Use Only

Audit No. Z246113

Received APR 07 2017

DRAFT

© Queen's Printer for Ontario, 2014



Google Earth

feet 200
meters 60

DRAFT

APR 07 2017

C-747
Z246113

14679

Ontario Ministry of the Environment and Climate Change

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* DECOMMISSION A217251

Well Record

Regulation 903 Ontario Water Resources Act

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	SCOTIA BANK REAL ESTATE		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
44 KING STREET WEST	TORONTO	ONTARIO	M5H 1H1	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
158 LAKESHORE RD E	Toronto	A	Range 1

County/District/Municipality	City/Town/Village	Province	Postal Code
PEEL (Mississauga)	MISSISSAUGA	Ontario	L5G 1E9

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614616	4823578		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	DECOMMISSIONED PER MOE REG 903.21				
	ALL WELL MATERIALS REMOVED				
	SEALED ENTIRE DEPTH				

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed (m^3/ft^3)
0.0	0.2	CONCRETE	
0.2	2.1	BENTONITE	
	2.1	EOH	

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, *specify*

Construction Record - Casing

Inside Diameter *(cm/in)*	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness *(cm/in)*	Depth (m/ft) From	Depth (m/ft) To
3.2	PVC		0.0	0.6

Construction Record - Screen

Outside Diameter *(cm/in)*	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
4.3	PVC	0.010"	0.6	2.1

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☑ Abandoned, other, *specify* CUST. REQUEST ☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water	Other, *specify*
1.5 (m/ft) ☐ Gas	☐ Fresh ☑ Untested	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested	

Hole Diameter

Depth (m/ft) From	To	Diameter *(cm/in)*

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time *(min)*	Draw Down Water Level *(m/ft)*	Recovery Time *(min)*	Recovery Water Level *(m/ft)*
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
SONIC SOIL SAMPLING INC.	7147

Business Address (Street Number/Name)	Municipality
668 MILLWAY AVENUE	YORK

Province	Postal Code	Business E-mail Address
ONTARIO	L4K 3V2	sonic@sonicsoil.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9056600501	ARCHIBALD, ALAN

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2881		2017 03 28

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2017 03 28

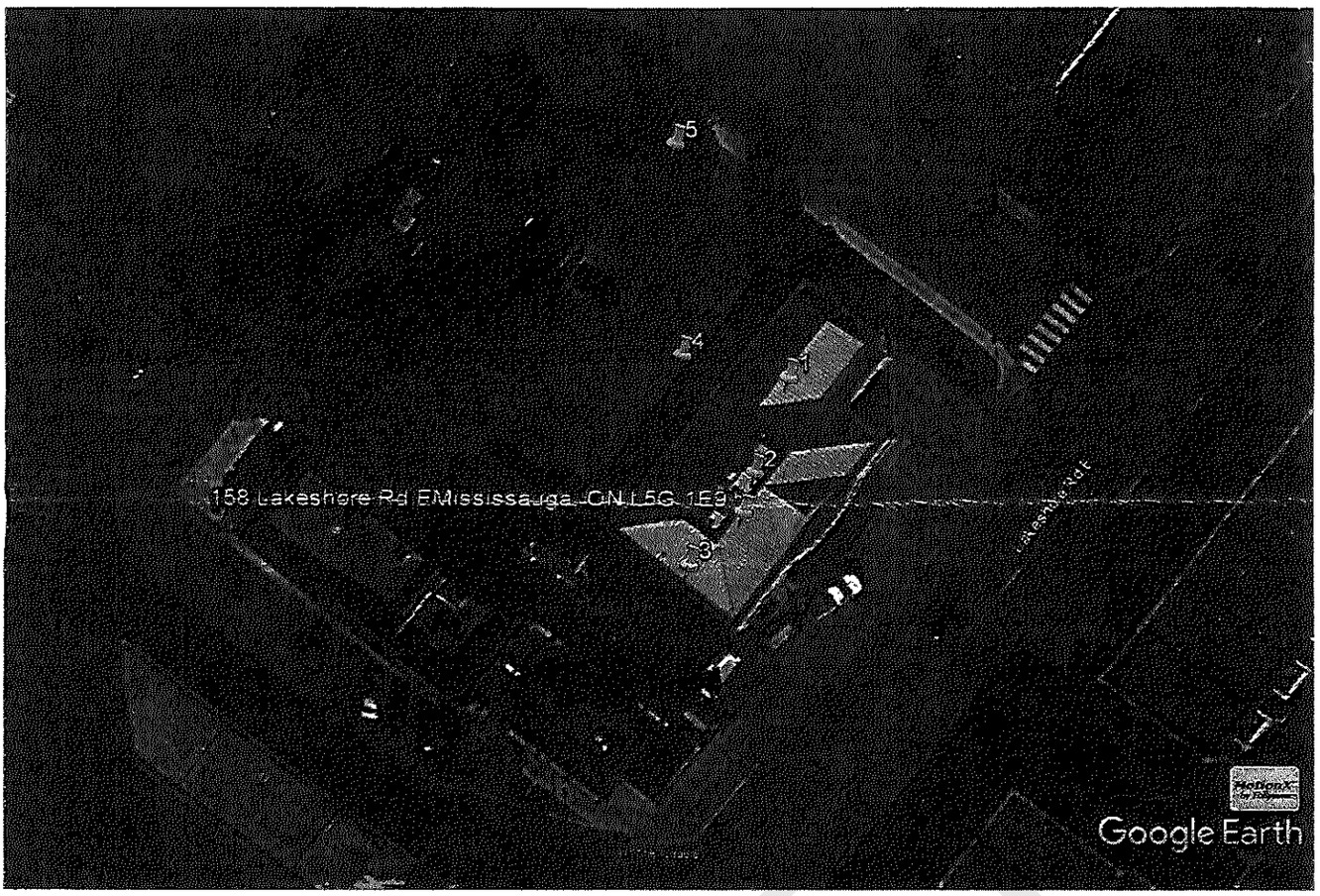
Ministry Use Only

Audit No. Z246109

APR 07 2017 Received

DRAFT

© Queen's Printer for Ontario, 2014



DRAFT

APR 0 7 2017

C-7147
Z246109

Ontario 246T9 Ministry of the Environment and Climate Change

Measurements recorded in: Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* DECOMMISSION A217243

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 5

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	ROYAL BANK REAL ESTATE		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
44 KING STREET WEST	TORONTO	ON	M5H 1H1	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
158 LAKESHORE RD E	Toronto	A	Range 1

County/District/Municipality	City/Town/Village	Province	Postal Code
PEEL ~~Toronto~~	MISSISSAUGA	Ontario	L5G 1E9

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	619619	4823587		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	DECOMMISSIONED PER MOE REG 903.21				
	ALL WELL MATERIALS REMOVED				
	SEALED ENTIRE DEPTH				

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0.0	0.2	CONCRETE	
0.2	2.1	BENTONITE	
	2.1	SOIL	

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
3.2	PVC	SCH	0.0	0.6

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
4.3	PVC	0.010"	0.6	2.1

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☒ Abandoned, other, *specify* CUST REQUEST ☐ Other, *specify*

Water Details

Water found at Depth	Kind of Water	
0.15 (m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
SONIC SOIL SAMPLING INC.	7147

Business Address (Street Number/Name)	Municipality
668 MILLWAY AVENUE	YORK

Province	Postal Code	Business E-mail Address
ONTARIO	L4K 3V2	sonic@sonicsoil.com

Bus.Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9056600501	ARCHIBALD, ALAN

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2881		2017/03/28

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: YYYY MM DD

Date Work Completed: 2017/03/28

Ministry Use Only

Audit No. Z246108

Received APR 07 2017

© Queen's Printer for Ontario, 2014

DRAFT

Google Earth feet 200 meters 60

DRAFT

APR 0 7 2017

C-7147
Z246/05

Ontario (https://www.ontario.ca/page/government-ontario)

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (https://data.ontario.ca/dataset/well-records) .

DRAFT

Go Back to Map

Well ID

Well ID Number: 7287213
Well Audit Number: *Z234258*
Well Tag Number: *A222349*
This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	170 LAKESHORE ROAD EAST
Township	MISSISSAUGA CITY (PORT CREDIT)
Lot	
Concession	

County/District/Municipality	PEEL
City/Town/Village	Oakville
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 614695.00 Northing: 4823639.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FILL		LOOS	0 ft	3 ft
BRWN	SILT	CLAY	PCKD	3 ft	10 ft
GREY	SILT	CLAY	PCKD	10 ft	20 ft

Annular Space/Abandonment Sealing Record

DRAFT

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	6 ft	CONCRETE	
6 ft	8 ft	BENTONITE	
8 ft	20 ft	#2 SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Boring	
	Monitoring

Status of Well

Observation Wells

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC	0 ft	10 ft

DRAFT

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
2.2 inch	PLASTIC	10 ft	20 ft

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7464

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	

DRAFT

Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	

DRAFT

25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 ft	20 ft	6 inch

DRAFT

Audit Number: Z234258

Date Well Completed: April 12, 2017

Date Well Record Received by MOE: May 26, 2017

Related

How to use a Ministry of the Environment map (https://www.ontario.ca/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

DRAFT

Updated: October 18, 2021
Published: March 20, 2014

7290466

1705 42 TERRAPROBE MAY 15/2017 (ETEN FORTUNA

Ontario

Ministry of the Environment and Climate Change

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*

A224506

Well Record

Regulation 903 Ontario Water Resources Act

Tag#: A 224506 Page 1 of 1

PORT CREDIT PROPERTIES INC. C/O THE EFFORT TRUST COMPANY

Address of Well Location (Street Number/Name)	Township	Lot	Concession
3 Elmwood Ave. N.	—	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
—	Mississauga	Ontario	L5G3J8

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	611471	4812377	—	—

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand / Gravel	Silt	Fill	0	0.9
Brown / Grey	Silt Till	—	Dense	0.9	5.1
Grey	Sand	Silt	Dense	5.1	6.9
		BH/MW 4			

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	0.3	Concrete	0.01
0.3	3.3	Bentonite	0.1

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☑ Boring ☐ Digging ☐ Air percussion ☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☑ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
5.1	PVC	0.65	0	3.9

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
6.4	PVC	10	3.9	6.9

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, *specify* _____ ☐ Other, *specify* _____

Water Details

Water found at Depth (m/ft)	Kind of Water	
☐ Gas	☑ Other, *specify* _____	☐ Fresh ☐ Untested
Water found at Depth (m/ft) ☐ Gas	Kind of Water: ☐ Other, *specify* _____	☐ Fresh ☐ Untested
Water found at Depth (m/ft) ☐ Gas	Kind of Water: ☐ Other, *specify* _____	☐ Fresh ☐ Untested

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	6.9	21

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Geo-Environmental Drilling	6 6 0 1 7

Business Address (Street Number/Name)	Municipality
1 Morsewood Court	Halton Hills

Province	Postal Code	Business E-mail Address
ON	L7J0A1	—

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
9058763588	Coles, Dave

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3606		2017/07/05/19

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

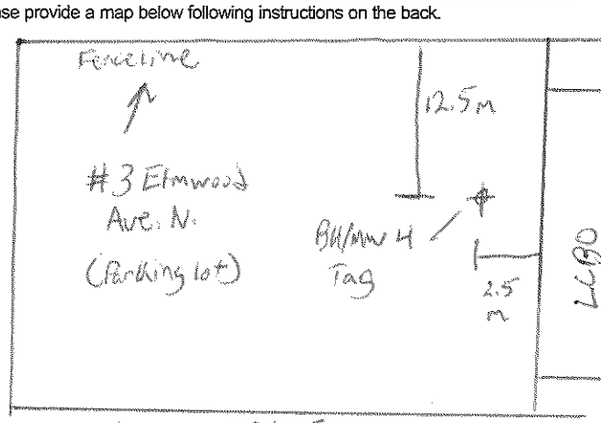
Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☐ Yes ☐ No	Y Y Y Y M M D D	Audit No. Z248368
	Date Work Completed	JUL 18 2017
	2017/07/05/19	Received

DRAFT

© Queen's Printer for Ontario, 2014

7290467

170542 TEKKAKOSE MAY 18/2017 PETEK FORTUNA

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. (Place Sticker and/or Print Below) A224507 Tag#: A 224507

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

PORT CREDIT PROPERTIES INC. C/O THE EFFORT TRUST COMPANY

Address of Well Location (Street Number/Name)	Township	Lot	Concession
3 Elmwood Ave. N.	—	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
—	Mississauga	Ontario	L5G3J8

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614703	4823692	—	—

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand/Gravel	Silt	Fill	0	0.9
Brown/Grey	Silt Till	—	Dense	0.9	5.1
Grey	Sand	Silt	Dense	5.1	6.9
		BH/MW 1			

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	0.3	Concrete	0.01
0.3	3.3	Bentonite	0.1

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☑ Boring ☐ Digging
☐ Air percussion
☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.1	PVC	0.65	0	3.9

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.4	PVC	10	3.9	6.9

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water	Hole Diameter Depth From (m/ft)	Depth To (m/ft)	Diameter (cm/in)
☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify	0	6.9	21
☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify			
☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify			

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

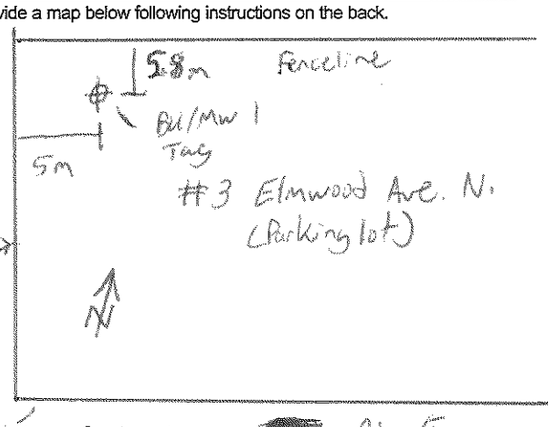
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Geo-Environmental Drilling	6017

Business Address (Street Number/Name)	Municipality
7 Marsewood Court	Halton Hills

Province	Postal Code	Business E-mail Address
ON	L7S0A1	—

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
9058763388	Cules, Dave

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3606		2017/06/19

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: YYYY MM DD

Date Work Completed: 2017/06/18

Ministry Use Only

Audit No. Z248369

JUL 18 2017

Received

DRAFT

© Queen's Printer for Ontario, 2014

7290468

170542 TEXNATKSGS MAY 19/2017 (ETEK) TOXNUM

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* A224505

Tag#: A 224505

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

PORT CREDIT PROPERTIES INC. C/O THE EFFORT TRUST COMPANY

Address of Well Location (Street Number/Name)	Township	Lot	Concession
3 Elmwood Ave. N.	—	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
—	Mississauga	Ontario	L5G3S8

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	614703	4823692	—	—

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand/Gravel	Silt	Fill	0	0.9
Brown/Grey	silt till	—	Dense	0.9	5.1
Grey	Sand	silt	Dense	5.1	5.7
		BH/MW 2			

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	0.3	Concrete	0.01
0.3	2.1	Bentonite	0.06

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☑ Boring ☐ Digging
☐ Air percussion
☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
5.1	PVC	0.65	0	2.7

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.4	PVC	10	2.7	5.7

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☑ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water	Hole Diameter Depth (m/ft) From	To	Diameter (cm/in)
☐ Gas	☑ Fresh ☐ Untested ☐ Other, specify	0	5.7	21
☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify			
☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify			

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

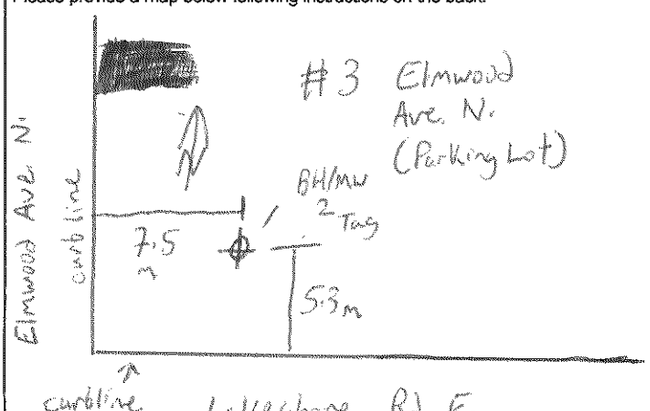
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Geo-Environmental Drilling	6017

Business Address (Street Number/Name)	Municipality
1 Mansewood Court	Halton Hills

Province	Postal Code	Business E-mail Address
ON	L7J0A1	—

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
9058176388	Coles, Dave

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3106		20170619

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	YYYY MM DD	20170618

Ministry Use Only

Audit No. 2248370

JUL 18 2017

Received

DRAFT

© Queen's Printer for Ontario, 2014

Ontario (https://www.ontario.ca/page/government-ontario)

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (https://data.ontario.ca/dataset/well-records) .

DRAFT

Go Back to Map

Well ID

Well ID Number: 7290465
Well Audit Number: *Z248350*
Well Tag Number: *A202716*
This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	76 CUMBERLAND DR
Township	MISSISSAUGA CITY
Lot	
Concession	

County/District/Municipality	PEEL
City/Town/Village	Mississauga
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 615349.00 Northing: 4823814.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	SILT	CLAY	0 m	1.5 m
GREY	SILT	CLAY	GRVL	1.5 m	4.5 m
BRWN	SILT	SAND	DNSE	4.5 m	6.5 m
BRWN	SAND	SAND	DNSE	6.5 m	9.1 m

DRAFT

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.3 m	CONCRETE	
.3 m	7.3 m	I	

Method of Construction & Well Use

Method of Construction	Well Use
Boring	
	Monitoring

Status of Well

Observation Wells

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.1 cm	PLASTIC	0 m	7.6 m

DRAFT

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.4 cm	PLASTIC	7.6 m	9.1 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 6607

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	

DRAFT

Recommended pump rate		
Well Production		
Disinfected?		

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	

DRAFT

30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 m	9.1 m	21 cm

DRAFT

Audit Number: Z248350

Date Well Completed: May 11, 2017

Date Well Record Received by MOE: July 18, 2017

Related

How to use a Ministry of the Environment map (https://www.ontario.ca/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

DRAFT

Updated: October 18, 2021
Published: March 20, 2014

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☐ Imperial

Well Tag No. (Place Sticker and/or Print Below) **A 073010**

Well Record

Regulation 903 Ontario Water Resources Act

4881 Page 5 of 5

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
107-113 LAKESHORE BLVD E.	MISS		

County/District/Municipality	City/Town/Village	Province	Postal Code
	MISS.	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17T	0614601 UTM	4823710		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
BLK.	ORGANICS.	FILL.	LOOSE.	0	[illegible]
BRWN.	SAND.	SILT	LOOSE.	[illegible].22	3.1
GRY	SAND.	SILT/CLAY.	WET.	3.1	4.88

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	0.3	CONCRETE	
0.3	1.5	BENTONITE.	
1.5	4.88	SILICA SAND.	

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☑ Other, specify GEOPROBE

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☑ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☑ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
3.81	P.V.C	.25	0	1.83

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
3.81	P.V.C	10	1.83	4.88

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ☐ Other, specify

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: Fresh	Untested	Other, specify
	☐	☐	☐	
	☐	☐	☐	
	☐	☐	☐	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

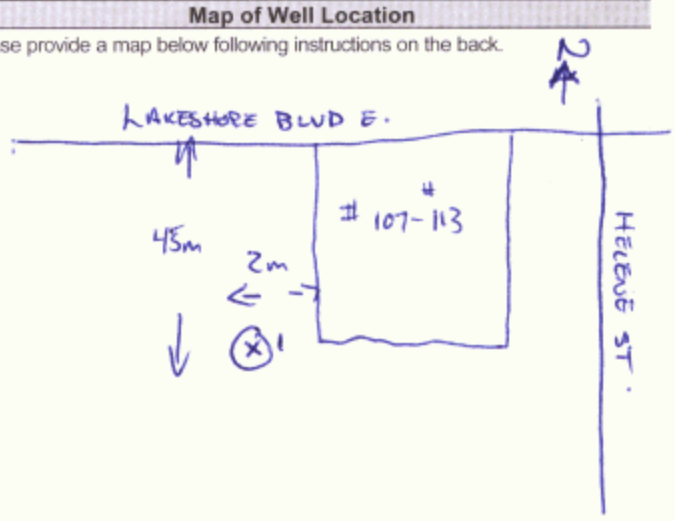
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
STRATA SOIL	7241

Business Address (Street Number/Name)	Municipality
UNIT 147 WEST BEAVER CREEK.	RICHMOND HILL

Province	Postal Code	Business E-mail Address
ON.	L4B 1C6	WWW.STRATASOIL.COM.

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
905-764-9304	MIKE BROWN

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T-2977	[signature]	2008/07/10

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered Y Y Y Y M M D D

Date Work Completed Y Y Y Y M M D D

Ministry Use Only

Audit No. Z 81870

Received JUL 31 2008

0506E (12/2007)

Ministry's Copy

© Queen's Printer for Ontario, 2007

DRAFT

Ontario (https://www.ontario.ca/page/government-ontario)

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (https://data.ontario.ca/dataset/well-records) .

DRAFT

Go Back to Map

Well ID

Well ID Number: 7315579
Well Audit Number: *C37776*
Well Tag Number: *A241874*
This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	MISSISSAUGA CITY (PORT CREDIT)
Lot	
Concession	

County/District/Municipality	PEEL
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 614552.00 Northing: 4823233.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

DRAFT

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

DRAFT

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 6988

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

DRAFT

Draw Down & Recovery

Draw Down	Draw Down	Recovery	Recovery

Time(min)	Water level	Time(min)	Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	

DRAFT

60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: C37776

Date Well Completed: March 23, 2018

Date Well Record Received by MOE: July 30, 2018

DRAFT

Related

How to use a Ministry of the Environment map (https://www.ontario.ca/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

Updated: October 18, 2021
Published: March 20, 2014

DRAFT

Ontario (https://www.ontario.ca/page/government-ontario)

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (https://data.ontario.ca/dataset/well-records) .

DRAFT

Go Back to Map

Well ID

Well ID Number: 7378123
Well Audit Number: *C51435*
Well Tag Number: *A223769*
This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	MISSISSAUGA CITY (PORT CREDIT)
Lot	
Concession	

County/District/Municipality	PEEL
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 614596.00 Northing: 4823213.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

DRAFT

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

DRAFT

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7607

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

DRAFT

Draw Down & Recovery

Draw Down	Draw Down	Recovery	Recovery

Time(min)	Water level	Time(min)	Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	

DRAFT

60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: C51435

Date Well Completed: December 11, 2020

Date Well Record Received by MOE: January 19, 2021

DRAFT

Related

How to use a Ministry of the Environment map (https://www.ontario.ca/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

Updated: October 18, 2021
Published: March 20, 2014

DRAFT

Ontario

Ministry of the Environment, Conservation and Parks

Well Record - Regulation 903

Ontario Water Resources Act

Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
A 315035

Type *

☑ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☑ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name

Organization	Email Address
Region of Peel	

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
	10	Peel Centre Drive	Brampton

Country	Province	Postal Code	Telephone Number
		L6T 4B9	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
		Carlis Place	

Lot	Concession	County/District/Municipality

City/Town	Province	Postal Code
Mississauga	Ontario	

UTM Coordinates	Zone *	Easting *	Northing *		Municipal Plan and Sublot Number
NAD 83	17	614972	4823498	Test UTM in Map	

Other

3. Overburden and Bedrock Material *

Well Depth * 10 (ft)

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

DRAFT

				(ft)	(ft)
Brown	Till		Loose	0	10

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	4	Bentonite	0.7
4	10	Sand Pack	1.0

5. Method of Construction *

☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☑ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☑ Monitoring
☐ Irrigation ☐ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

☐ Water Supply ☐ Replacement Well ☐ Test Hole
☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole
☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality
☐ Abandoned, other (specify) _____
☐ Other (specify) _____

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole **or** Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
2	Plastic	0.2	0	5

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
2.5	Plastic	10	5	10

DRAFT

10. Water Details

Water found at Depth (ft)	☐ Gas	Kind of water ☐ Fresh ☐ Untested ☐ Other

11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	10	7.5

12. Results of Well Yield Testing

☐ Pumping Discontinued

Explain _____

If flowing give rate

☐ Flowing _____ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

☐ Clear and sand free ☐ Other (specify)

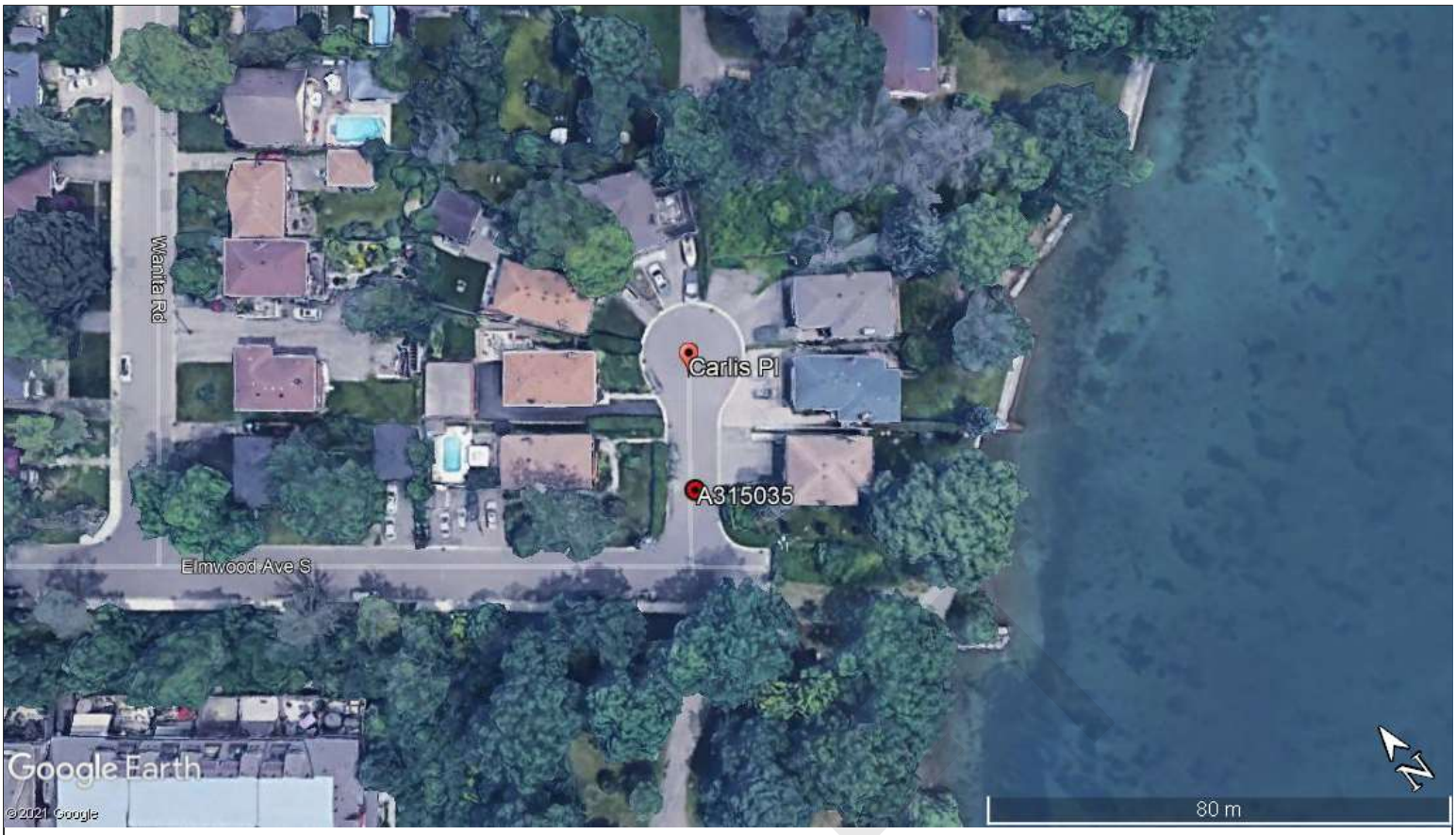
Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * ☐ Yes ☑ No

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. ☑ Make map area bigger

DRAFT



14. Information

Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☑ No		2021/01/29

Comments

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *	Well Contractor's License Number *
Davis Drilling Ltd	7472

Business Address

Unit Number	Street Number	Street Name *
	873	Nipissing Rd

City/Town/Village *	Province	Postal Code *
Milton	ON	L9T 4Z4

Business Telephone Number	Business Email Address
905-299-6915	davisdrilling@bellnet.ca

Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *
Silenzi	Craig	4184

16. Declaration *

☑ I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

DRAFT

Last Name	First Name	Email Address
Silenzi	Craig	davisdriling@bellnet.ca

Signature	Date Submitted (yyyy/mm/dd)
Craig Silenzi Digitally signed by Craig Silenzi Date: 2021.02.18 12:18:16 -05'00'	2021/02/18

17. Ministry Use Only

Audit Number

M5VI HHBH

DRAFT

Ontario (https://www.ontario.ca/page/government-ontario)

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (https://data.ontario.ca/dataset/well-records) .

DRAFT

Go Back to Map

Well ID

Well ID Number: 7315579
Well Audit Number: *C37776*
Well Tag Number: *A241874*
This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	MISSISSAUGA CITY (PORT CREDIT)
Lot	
Concession	

County/District/Municipality	PEEL
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 614552.00 Northing: 4823233.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

DRAFT

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

DRAFT

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 6988

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

DRAFT

Draw Down & Recovery

Draw Down	Draw Down	Recovery	Recovery

Time(min)	Water level	Time(min)	Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	

DRAFT

60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: C37776

Date Well Completed: March 23, 2018

Date Well Record Received by MOE: July 30, 2018

DRAFT

Related

How to use a Ministry of the Environment map (https://www.ontario.ca/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

Updated: October 18, 2021
Published: March 20, 2014

DRAFT

Ontario (https://www.ontario.ca/page/government-ontario)

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (https://data.ontario.ca/dataset/well-records) .

DRAFT

Go Back to Map

Well ID

Well ID Number: 7378123
Well Audit Number: *C51435*
Well Tag Number: *A223769*
This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	MISSISSAUGA CITY (PORT CREDIT)
Lot	
Concession	

County/District/Municipality	PEEL
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 614596.00 Northing: 4823213.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

DRAFT

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

DRAFT

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7607

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

DRAFT

Draw Down & Recovery

Draw Down	Draw Down	Recovery	Recovery

Time(min)	Water level	Time(min)	Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	

DRAFT

60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: C51435

Date Well Completed: December 11, 2020

Date Well Record Received by MOE: January 19, 2021

DRAFT

Related

How to use a Ministry of the Environment map (https://www.ontario.ca/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

Updated: October 18, 2021
Published: March 20, 2014

DRAFT

Ontario

Ministry of the Environment, Conservation and Parks

Well Record - Regulation 903

Ontario Water Resources Act

Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
A 315035

Type *

☑ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☑ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name

Organization	Email Address
Region of Peel	

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
	10	Peel Centre Drive	Brampton

Country	Province	Postal Code	Telephone Number
		L6T 4B9	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
		Carlis Place	

Lot	Concession	County/District/Municipality

City/Town	Province	Postal Code
Mississauga	Ontario	

UTM Coordinates	Zone *	Easting *	Northing *		Municipal Plan and Sublot Number
NAD 83	17	614972	4823498	Test UTM in Map	

Other

3. Overburden and Bedrock Material *

Well Depth * 10 (ft)

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

DRAFT

				(ft)	(ft)
Brown	Till		Loose	0	10

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	4	Bentonite	0.7
4	10	Sand Pack	1.0

5. Method of Construction *

☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☑ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☑ Monitoring
☐ Irrigation ☐ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

☐ Water Supply ☐ Replacement Well ☐ Test Hole
☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole
☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality
☐ Abandoned, other (specify) _____
☐ Other (specify) _____

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole **or** Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
2	Plastic	0.2	0	5

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
2.5	Plastic	10	5	10

DRAFT

10. Water Details

Water found at Depth (ft)	☐ Gas	Kind of water ☐ Fresh ☐ Untested ☐ Other

11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	10	7.5

12. Results of Well Yield Testing

☐ Pumping Discontinued

Explain _____

If flowing give rate

☐ Flowing _____ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

☐ Clear and sand free ☐ Other (specify)

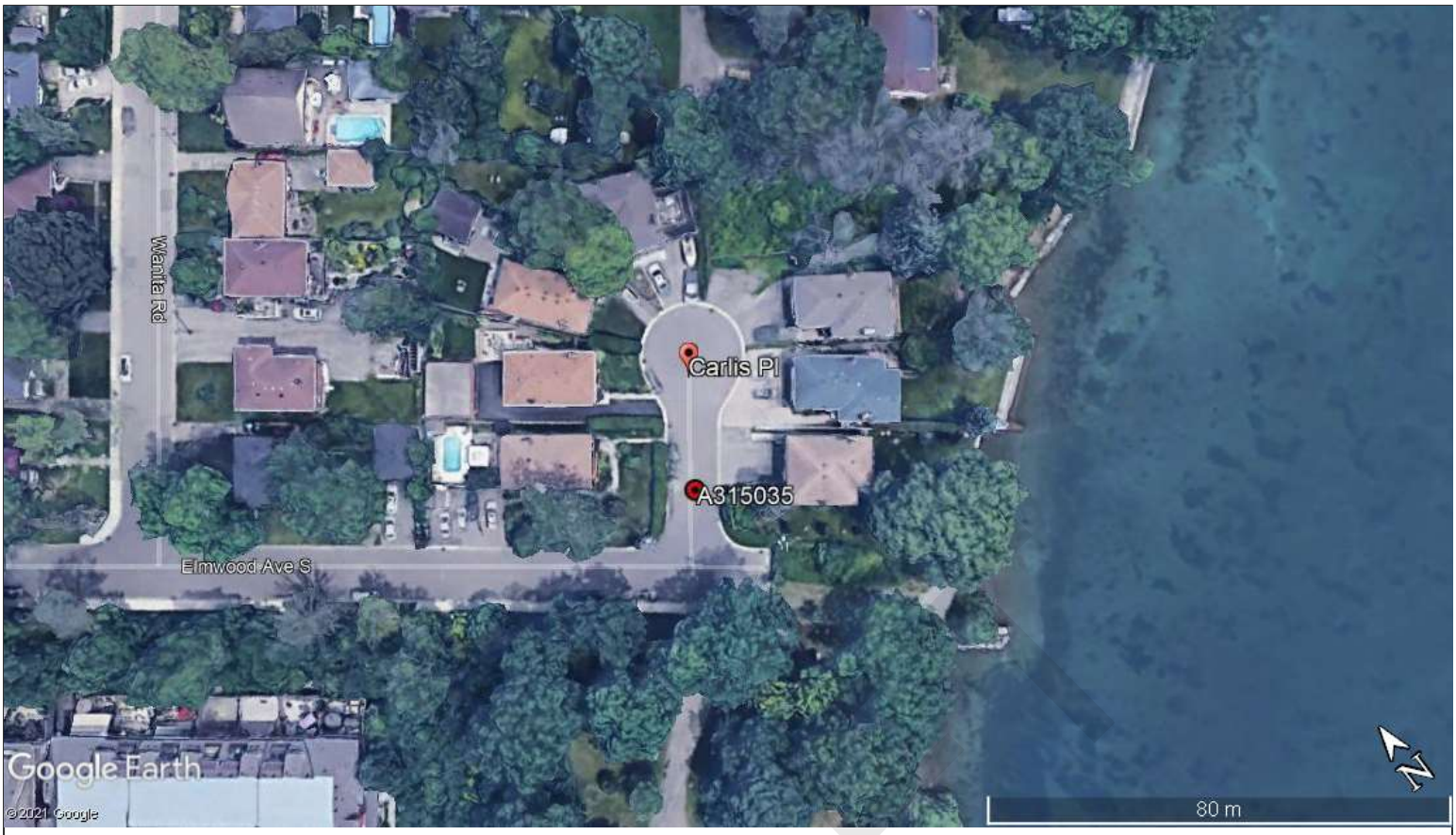
Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * ☐ Yes ☑ No

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. ☑ Make map area bigger

DRAFT



14. Information

Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☑ No		2021/01/29

Comments

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *	Well Contractor's License Number *
Davis Drilling Ltd	7472

Business Address

Unit Number	Street Number	Street Name *
	873	Nipissing Rd

City/Town/Village *	Province	Postal Code *
Milton	ON	L9T 4Z4

Business Telephone Number	Business Email Address
905-299-6915	davisdrilling@bellnet.ca

Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *
Silenzi	Craig	4184

16. Declaration *

☑ I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

DRAFT

Last Name	First Name	Email Address
Silenzi	Craig	davisdriling@bellnet.ca

Signature	Date Submitted (yyyy/mm/dd)
Craig Silenzi Digitally signed by Craig Silenzi Date: 2021.02.18 12:18:16 -05'00'	2021/02/18

17. Ministry Use Only

Audit Number

M5VI HHBH

DRAFT

APPENDIX I:
SELECT SITE PHOTOGRAPHS

DRAFT

ROS_1

Photograph 1: View of Rosemere Rd (ROS_1) from Stavebank Rd, facing east.

Photograph 2: View of Rosemere SPS from the south side of Rosemere Rd, facing east.

Photograph 3
View of double walled diesel fuel tank and raised containment area at the Rosemere SPS, facing west.

Photograph 4: View of raised backup generator at Rosemere SPS, facing west.

Photograph 5: View of Rosemere SPS interior, showing raised backup generator and diesel storage tank.

DRAFT

ROS_2

Photograph 6: View of Sandam Rd from Vesta Dr, facing west.

Photograph 7: View of east end of Sandham Rd and adjacent GO station parking area, facing east.

Photograph 8: View (facing south of Sandham Rd) of chain link fence and municipal drainage ditch flowing west towards Credit River. "Stop Littering" sign indicates some level of illegal dumping.

LAK_3

Photograph 9: View of LAK_3 (Parking Lot) site at Elmwood Ave N and Lakeshore Rd E, facing west.

Photograph 10: View showing Elmwood Ave N at Lakeshore Rd E and distance to Midas Automotive repair / garage (approximately 100 m west) located at the corner of Rosewood Ave and Lakeshore Rd E), facing west from the west edge of LAK_3 Site.

Photograph 11: View showing Lakeshore Rd and distance to Coin Laundry (approximately 90 m southeast) located in the strip mall across the street, facing southeast from the southeast edge of LAK_3 Site.

DRAFT

ELM_4

Photograph 12: View showing ELM_4 site (T – intersection), at the end of Wanita Rd, facing west from the southeast corner of Elmwood Ave S at Wanita Rd

Photograph 13: Similar view to Photograph 12, but turned slightly to the north to show Elmwood Ave S towards Lakeshore Rd E.

DRAFT

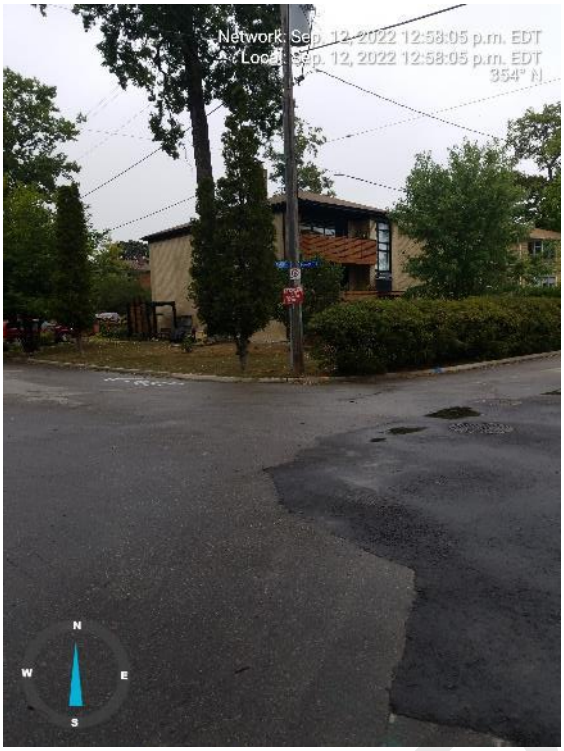
ELM_5

Photograph 17: View of ELM_5 Site (St Lawrence Park), showing waterfront trail and Lake Ontario (left) and St Lawrence Dr. (right), facing west

Photograph 18: View of ELM_5 Site (St Lawrence Park), showing waterfront trail (right) and St Lawrence Dr (left), facing east

Photograph 19: View of Elmwood SPS, located in Tall Oaks Park, from Elmwood Ave S and Carlis Pl.

ELM_6



Photograph 14: View of a portion of ELM_6 Site showing Elmwood Ave S (left) and Carlis Pl (right), facing northeast.

Photograph 15: View of a portion of ELM_6 Site, showing Elmwood Ave S (bottom) and Carlis Pl (top) facing east

Photograph 16: View of the southern portion of ELM_6 Site and proximity to Lake Ontario (top) and Tall Oaks Park (right), facing south

DRAFT

Elmwood SPS

Photograph 20: View of Elmwood SPS exterior, showing diesel fuel tank refueling platform, facing northwest.

Photograph 21: view of double walled diesel storage tank (3/4 full) at interior of Elmwood SPS, facing northeast.

Photograph 22: View of Elmwood SPS interior showing backup generator, facing southwest.

Photograph 23: View of Elmwood SPS interior showing backup generator (same as in Photograph 22), facing southwest.

HIA_7

Photograph 24: View of north portion of HIA_7 Site, 4-way intersection at Hiawatha Pkwy (top) and Wanita Rd (left), facing north.

Photograph 25: View of south portion of HIA_7 Site, 4-way intersection at Hiawatha Pkwy (shown) and Wanita Rd (not shown), facing south.

DRAFT

HIA_8 (& Hiawatha SPS)

Photograph 26: View of Hiawatha SPS exterior (76 Cumberland Dr) at Hiawatha Park, from Hiawatha Pkwy and Cumberland Dr, facing south.

Photograph 27: View of Hiawatha SPS exterior (76 Cumberland Dr) at Hiawatha Park, from Hiawatha Pkwy and Cumberland Dr, facing west.

Photograph 28: View of Hiawatha SPS interior, showing backup generator, facing west.

Photograph 29: View of Hiawatha SPS interior, showing double walled diesel fuel tank (3/4 full), facing west.

APPENDIX J:
NEIGHBOURING PROPERTY DETAILS

DRAFT

Date:	9/12/2022	File:	719033
To:	GMBP Team		
From:	Mark Ongarato		
Project:	Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule C Class Environmental Assessment		
Subject:	Adjacent and Neighbouring Property Uses Site Visit Notes		

TECHNICAL MEMO

For the purposes of this memo, the direction "north" means the direction along Hurontario Street toward Highway 403. Neighbouring lands are listed in order of closest to furthest from the site.

Notes:
Items in Blue text represent observations from site reconnaissance that are considered to indicate the most significant properties or structures within the project Study Area and outside of the immediate 100 m study area of each Site.
Items in Red text represent observations from site reconnaissance that are considered to indicate the most significant properties or structures within the project Study Area and are within the immediate 100 m study area of a particular Site.

Rosemere (ROS_1)
Site description:
Paved residential street (Rosemere Rd.)

Position Relative to Site	Neighbouring Lands Description
North	Residential housing.
East	Open area (grassed area) & residential housing.
South	east/west drainage channel (Mary Fix Creek) flowing west towards the Credit River, Train tracks (east/west), railway crossing (@ Stavebank Rd.), GO Train station parking lot.
West	Residential housing, parkland, Credit River.

Rosemere (ROS_2)
Site description:
Paved residential street (Sandham Rd.)

Position Relative to Site	Neighbouring Lands Description
North	Residential housing.
East	Residential housing, Vesta drive, GO train parking lot.
South	Some domestic garbage / dumping (empty cans, doggy bags, garbage bags) on the south side of Sandham Rd. along fence line (appears minor), east/west drainage channel (Mary Fix Creek) flowing west towards Credit River, GO Train station.
West	Residential housing, Mona Street.

DRAFT

Lakeshore (LAK_3)
Site description:
Paved parking lot @ 3 Elmwood Ave. N. Three (3) flush mount monitoring wells were found in the parking lot; one located on the site's east side, and two located on the site's west side.

Position Relative to Site	Neighbouring Lands Description
North	Residential housing.
East	LCBO, Woodlawn Ave, residential housing (townhouse residential).
South	Strip mall / building (on the south side of Lakeshore Rd. E.) that includes the following businesses: • Thrift store, • Tanning studio, • Convenience store, • Pet store, • Washpro Coin laundry (195 Lakeshore Rd E) • Animal hospital, • Karate studio, • Driving school, • Thai food restaurant
West	Wing Porium (pub), Elmwood Meat Market, available space for lease, and a Midas auto garage (two bays) (160 Lakeshore Rd. E.). The Space for lease is currently slightly boarded up with some homeless sleeping outside of the building.

DRAFT

Elmwood (ELM_4)
Site description:
Elmwood Ave. S. @ Wanita Rd. (paved T-intersection) in a residential area

Position Relative to Site	Neighbouring Lands Description
North	Residential housing, Lakeshore Rd. E. (approximately 200 m away), Strip mall / building (on the south side of Lakeshore Rd. E.) that includes the following businesses: • Thrift store, • Tanning studio, • Convenience store, • Pet store, • Washpro Coin laundry (195 Lakeshore Rd E) • Animal hospital, • Karate studio, • Driving school, • Thai food restaurant
East	Residential housing.
South	Carlis Place, Tall Oaks Park (44 Elmwood Ave. S.), Elmwood SPS (60 Elmwood Ave S, Lake Ontario.
West	Residential housing.

Elmwood (ELM_5)
Site description
St Lawrence Park (75 St. Lawrence Dr.). irrigation system in the green space / grassed area of the park

Position Relative to Site	Neighbouring Lands Description
North	Residential housing, Lakeshore Rd. E. (approximately 325 m away, NNE), Strip mall / building (on the south side of Lakeshore Rd. E.) that includes the following businesses: • Thrift store, • Tanning studio, • Convenience store, • Pet store, • Washpro Coin laundry (195 Lakeshore Rd E) • Animal hospital, • Karate studio, • Driving school, • Thai food restaurant
East	Playground structure, Natural preservation area (naturalization), Elmwood SPS (60 Elmwood Ave. S.), Tall Oaks Park (44 Elmwood Ave. S.).
South	Lake Ontario.
West	Waterfront trail, park space, Port Credit Harbour Marina (350m away).

DRAFT

Elmwood (ELM_6)
Site description
Elmwood Ave. S. @ Carlis Pl. (Paved T-intersection) in a residential area

Position Relative to Site	Neighbouring Lands Description
North	Elmwood Ave. S., residential housing, Wanita Dr, Lakeshore Rd E (approximately 300 m away), Strip mall / building (on the south side of Lakeshore Rd E) that includes the following businesses: • Thrift store, • Tanning studio, • Convenience store, • Pet store, • Washpro Coin laundry (195 Lakeshore Rd E) • Animal hospital, • Karate studio, • Driving school, • Thai food restaurant
East	Residential housing.
South	Lake Ontario.
West	Tall Oaks Park (44 Elmwood Ave. S.), Elmwood SPS (60 Elmwood Ave. S.), St. Lawrence Park (75 St Lawrence Dr.).

DRAFT

Hiawatha (HIA_7)
Site description
Hiawatha Pkwy @ Wanita Rd. (4-way intersection) in a residential area

Position Relative to Site	Neighbouring Lands Description
North	Residential housing, Hiawatha Pkwy (travelling towards Lakeshore Rd E), Lakeshore Rd. E. (approximately 200 m away).
East	Residential housing.
South	Residential housing, Hiawatha Park, Hiawatha SPS (76 Cumberland Dr.), Lake Ontario.
West	Residential housing.

Hiawatha (HIA_8)
Site description
76 Cumberland Drive (Cumberland Drive @ Hiawatha Pkwy) at Hiawatha Park

Position Relative to Site	Neighbouring Lands Description
North	Residential housing, Hiawatha Pkwy (travelling north).
East	Residential housing, Cumberland Dr.
South	Playground structures, park space, Lake Ontario.
West	Residential housing, Cumberland Dr.

DRAFT

2G

Region of Peel

APPENDIX 2G

TRAFFIC IMPACT ASSESSMENT (TIA)

Port Credit East Water and Wastewater Servicing Optimization Strategy

Traffic Impact Study

Paradigm Transportation Solutions Limited

August 2023
190562

ptsl.com

Project Summary

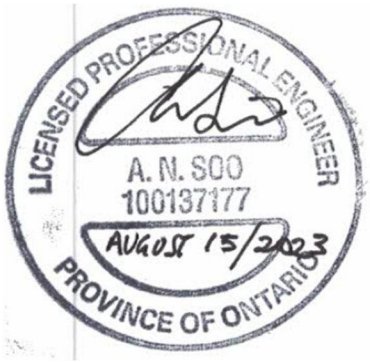
Project Number
190562

Date: August 2023
Version 1.0.0

Client
GM BluePlan Engineering Limited
3300 Highway No.7, Suite 402
Vaughan, Ontario, L4K 4M3

Client Contact
Chris Campbell
Vice President, Partner

Port Credit East Water and Wastewater Servicing Optimization Strategy Traffic Impact Study



Signing Licensee/Engineer, P.Eng.

Consultant Project Team
Adrian Soo, P.Eng
Wenting Li, M.A.Sc., EIT

Disclaimer

This document has been prepared for the titled project or named part thereof (the "project") and except for approval and commenting municipalities and agencies in their review and approval of this project, should not be relied upon or used for any other project without an independent check being carried out as to its suitability and prior written authorization of Paradigm Transportation Solutions Limited being obtained. Paradigm Transportation Solutions Limited accepts no responsibility or liability for the consequence of this document being used for a purpose other than the project for which it was commissioned. Any person using or relying on the document for such other purpose agrees and will by such use or reliance be taken to confirm their agreement to indemnify Paradigm Transportation Solutions Limited for all loss or damage resulting there from. Paradigm Transportation Solutions Limited accepts no responsibility or liability for this document to any party other than the person by whom it was commissioned and the approval and commenting municipalities and agencies for the project.

To the extent that this report is based on information supplied by other parties, Paradigm Transportation Solutions Limited accepts no liability for any loss or damage suffered by the client, whether through contract or tort, stemming from any conclusions based on data supplied by parties other than Paradigm Transportation Solutions Limited and used by Paradigm Transportation Solutions Limited in preparing this report.

Paradigm Transportation Solutions Limited
5A-150 Pinebush Road
Cambridge ON N1R 8J8
p: 519.896.3163
905.381.2229
416.479.9684
www.ptsl.com

Copyright Notice

This report is protected by Canadian and International copyright laws. Reproduction and/or distribution of the report without the written permission of Paradigm Transportation Solutions Limited is prohibited.

© 2021 Paradigm Transportation Solutions Limited. All rights reserved

Executive Summary

Content

Paradigm Transportation Solutions Limited (Paradigm) was retained by GM BluePlan Engineering Limited (the client) to conduct a Traffic Impact Study for the Port Credit East Water and Wastewater Servicing Optimization Strategy currently being undertaken for the Region of Peel. The study is required as part of the Municipal Class Environmental Assessment.

The Traffic Impact Study includes a description of the impacted sites, an assessment of existing traffic conditions, and future traffic conditions without and during construction. The study analyzes traffic impacts on the adjacent roadway network for the proposed construction plans, and recommends of any necessary improvements to the study area intersections to maintain acceptable traffic operations during construction.

The findings, conclusions, and recommendations of this study are summarized below and outlined in further detail in the body of the report.

Conclusions

Based on the investigations carried out, it is concluded that:

- For the Port Credit East Water and Wastewater Servicing Optimization Strategy, the components include works related to the Rosemere Sewage Pumping Station (SPS), the Lakeshore Road Sub-Transmission Watermain and Trunk Sewer, and both the Elmwood and Hiawatha Sewage Pumping Stations (SPSs) as part of a Schedule C Municipal Class Environmental Assessment (EA).
- Works related to the **Rosemere SPS** component will result in minor impacts on the nearby residential homes. A total of three residential homes on Rosemere Road will be impacted by the proposed lane reduction on Rosemere Road.

  As the roadway is discontinuous, and access to the residential homes will be maintained, the overall transportation impact is considered minor, and no roadway or intersection geometric improvements are determined to be required during construction.
- Works related to the **Lakeshore Road Sub-Transmission Watermain and Trunk Sewer** component will occupy and displace parking. That is, Municipal Lot #2 and #4 will be

occupied for construction activities. While parking is anticipated to be displaced, the associated tunnelling activities will not result in any surface disturbance along Lakeshore Road.

No major traffic impacts are anticipated with the proposed construction activities, that is, intersection operations and roadway capacity along Lakeshore Road will not be impacted.

Regarding the displaced parking spaces at Municipal Lot #2, parking demands will be accommodated by adjacent Municipal Lots #1 and #3, as well can be accommodated by the public parking lot on the south side of Lakeshore Road. Displaced parking at Municipal Lot #4, will be replaced with a temporary parking lot proposed at the Harold E. Kennedy Park.

- Works related to the **Elmwood and Hiawatha SPSs** component will result in traffic redistribution to adjacent intersections due to the planned partial intersections closures of Lakeshore Road East/Elmwood Avenue North and Elmwood Avenue South/Wanita Road, and the full intersection closure of Hiawatha Parkway/Wanita Road.

  It is noted the road closure of Elmwood Avenue North, north of Lakeshore Road, the related construction works will occur following the Lakeshore Road Sub-Transmission Watermain and Trunk Sewer construction.

  - Under the assessed **2024 and 2028 horizons without SPS construction**, the study area intersections are forecast to operate at acceptable levels of service and well within capacity; and
  - Under the assessed **2024 and 2028 horizons during SPS construction**, operations at the study area intersections are reported to be similar to 2024 and 2028 conditions without construction.

    The traffic variation due to traffic redistribution is found to be minor. All intersections and traffic movements are forecast to continue operating at acceptable levels of service and within capacity during all peak periods.
  - No road and/or operational traffic control improvements are anticipated to be required to accommodate the construction stage.

- Overall, the construction works related to all components is considered minor and is anticipated to generate minimal disruption. As a result of the planned works, appropriate Construction and Traffic Management Plans (temporary diversions of pedestrian walkways, traffic control persons, temporary signage, etc.) will be developed.

Recommendations

Based on the findings of this study, it is recommended the City of Mississauga and Region of Peel recognize the conclusions drawn above.

Appropriate Construction Management Plans be developed for each component and implemented to ensure any potential conflicts are minimized.

Contents

1 Introduction 1

1.1 Project Background 1
1.2 Purpose and Scope 1

2 Preferred Construction Strategy 5

3 Existing Conditions 12

3.1 Road Network Characteristics 12
3.2 Traffic Volumes 13
3.3 Existing Traffic Operations 17

4 Traffic Forecasts 21

4.1 Horizon Year 21
4.2 Traffic Growth 21
4.3 Traffic Redistribution 21

5 Construction Traffic Operations 27

5.1 2024 and 2028 Horizons Without Construction 27
5.2 2024 and 2028 Horizons During Construction 32
5.3 Assessment of Impacts 38

6 Impact Assessment Summary 40

6.1 Rosemere SPS 40
6.1.1 Transportation Impacts 40
6.1.2 Mitigation Measures 40
6.2 Lakeshore Road Sub-Transmission Watermain and Trunk Sewer 41
6.2.1 Transportation Impacts 41
6.2.2 Mitigation Measures 42
6.3 Elmwood and Hiawatha SPSs 42
6.3.1 Transportation Impacts 42
6.3.2 Mitigation Measures 44
6.4 Summary 45

7 Conclusions and Recommendations 46

7.1 Conclusions 46
7.2 Recommendations 47

Appendices

Appendix A	Traffic Data
Appendix B	Base Year (2022) Traffic Operations Report
Appendix C	Traffic Redistribution and Adjustments
Appendix D	Future Traffic Operations Reports (Without Construction)
Appendix E	Future Traffic Operations Reports (During Construction)

Figures

Figure 1.1: Study Area – Work Component Locations 4
Figure 2.1: Rosemere SPS 8
Figure 2.2: Lakeshore Road Sub-Transmission Watermain and Trunk Sewer 9
Figure 2.3: Elmwood and Hiawatha SPS 10
Figure 2.4: Port Credit Municipal Parking Lots 11
Figure 3.1: Existing Lane Configurations and Traffic Control 14
Figure 3.2: Base Year Traffic Volumes 16
Figure 4.1: 2024 Traffic Forecasts (Without Construction) 23
Figure 4.2: 2028 Traffic Forecasts (Without Construction) 24
Figure 4.3: 2024 Traffic Forecasts (During Construction) 25
Figure 4.4: 2028 Traffic Forecasts (During Construction) 26

Tables

Table 3.1: Intersection Peak Hours 15
Table 3.2: Base Year (2022) AM Peak Hour Traffic Operations 19
Table 3.3: Base Year (2022) PM Peak Hour Traffic Operations 20
Table 5.1: 2024 AM Peak Hour Traffic Operations (Without Construction) 28
Table 5.2: 2024 PM Peak Hour Traffic Operations (Without Construction) 29
Table 5.3: 2028 AM Peak Hour Traffic Operations (Without Construction) 30
Table 5.4: 2028 PM Peak Hour Traffic Operations (Without Construction) 31
Table 5.5: 2024 AM Peak Hour Traffic Operations (During Construction) 34
Table 5.6: 2024 PM Peak Hour Traffic Operations (During Construction) 35
Table 5.7: 2028 AM Peak Hour Traffic Operations (During Construction) 36

Table 5.8: 2028 PM Peak Hour Traffic Operations (During Construction) 37
Table 5.9: Traffic Volume Variation 39

1 Introduction

1.1 Project Background

GM BluePlan Engineering Limited retained Paradigm Transportation Solutions Limited (Paradigm) to conduct a traffic impact assessment for works related to the Port Credit East Water and Wastewater Servicing Optimization Strategy.

Specifically, the components of the strategy include works related to the Rosemere Sewage Pumping Station (SPS), the Lakeshore Road Sub-Transmission Watermain and Trunk Sewer, and both the Elmwood and Hiawatha Sewage Pumping Stations (SPS) as part of a Schedule C Municipal Class Environmental Assessment (EA).

This study assesses and identifies any potential transportation impacts to residents and businesses in proximity to the anticipated construction sites, and the need for any road and/or operational traffic control improvements to address any identified impacts.

Figure 1.1 illustrates the locations and extents of anticipated works. The study areas assessed captures the potential intersections that could be impacted by the planned construction zones.

1.2 Purpose and Scope

The purpose of this report is to identify and review any existing and future traffic operational deficiencies at study area intersections associated with the anticipated construction work.

A traffic impact study is required as part of the Municipal Class EA to:

- Assess the existing operations at study area intersections;
- Analyze the existing and forecasted operational level of service and volume-to-capacity ratio of the subject study area locations; and
- Provide recommendations to improve the function of the surrounding transportation infrastructure, if required.

The anticipated construction and works related to the Rosemere SPS, and Lakeshore Road Sub-Transmission Watermain and Trunk Sewer component sites are not anticipated to require any significant road and/or intersection closures based upon the strategies conveyed by GM BluePlan. These two sites will be discussed further within subsequent sections of this study.

Construction and activities related to both the Elmwood and Hiawatha Sewage Pumping Station sites will require partial road and full intersection closures based upon the strategies conveyed by GM BluePlan. To assess the traffic impacts due to the construction works, the following scope of work has been undertaken:

- A study area comprising the following intersections:
  - Lakeshore Road East and Rosewood Avenue (unsignalized);
  - Lakeshore Road East and Elmwood Avenue (signalized);
  - Lakeshore Road East and Woodlawn Avenue (unsignalized);
  - Lakeshore Road East and Cumberland Drive (signalized);
  - Lakeshore Road East and Hiawatha Parkway (signalized);
  - Lakeshore Road East and Wenonah Drive (unsignalized);
  - Wanita Road and Elmwood Avenue (unsignalized);
  - Wanita Road and Cumberland Drive (unsignalized);
  - Wanita Road and Hiawatha Parkway (unsignalized); and
  - Wanita Road and Wenonah Drive (unsignalized).
- Analysis time periods including the weekday AM and PM peak hours;
- Traffic forecasts for 2024 and 2028 (anticipated period of construction year); and
- Traffic redistribution due to partial/complete closure of the intersections of Lakeshore Road East/Elmwood Avenue, Wanita Road/Elmwood Avenue South, and Wanita Road/Hiawatha Parkway.

The traffic impact assessment will address the following:

- Traffic impacts on the adjacent roadway network from the proposed construction plans; and
- Identify necessary recommendations of any improvements to the study area intersections to maintain acceptable traffic operations during the construction period.

The purpose of assessing traffic operations:

- Prior to construction, is to establish a profile of existing conditions primarily for comparison and benchmarking purposes; and

- During construction, is to identify traffic impacts likely to arise during the construction period and assess measures to mitigate/address any issues or concerns.

This study has been carried out in general accordance with the *City of Mississauga Traffic Impact Study Guidelines*[1].

[1] City of Mississauga, *Traffic Impact Study Guidelines*.

paradigm TRANSPORTATION SOLUTIONS LIMITED

Study Area
Work Component Locations

2 Preferred Construction Strategy

The following sites related to the Port Credit East Water and Wastewater Servicing Optimization Strategy will require work due to condition, maintenance and performance issues at the following component sites.

Figure 2.1 to **Figure 2.3** illustrates mapping of the preferred preliminary strategy for each site illustrating the approximate shaft compound locations, and approximate limits of construction. As we understand the anticipated duration of construction will be between 12 to 18 months for each component, with construction staggered between 2024 and 2028.

- **Rosemere Sewage Pumping Station (SPS)**:
  - Construction related to shaft compounds in proximity to the Rosemere SPS will require partial closure of Rosemere Road, while Sandham Road between Mona Road and Vesta Drive will require full closure to accommodate the construction shaft compound areas.
  - Rosemere Road is a discontinuous roadway and provides access to three residential homes. The roadway provides one travel lane in each direction and to facilitate the necessary construction, Rosemere Road will be reduced to a single lane for both directions of traffic. Given the low volume of local traffic, no major traffic impacts are anticipated with single-lane traffic operations.
  - Sandham Road between Mona Road and Vesta Drive will be closed to vehicular traffic. No major traffic impacts are anticipated with this closure as it does not facilitate access to any properties, and access to adjacent homes on Mona Road and Vesta Drive will not be impacted. It is noted that the access to the vacant lot at the south end of Mona Road, west of Sanham Road will be provided.

    It is anticipated the pedestrian connection situated at the east end of Sandham Road with the Port Credit GO Station parking lot will be maintained.
- **Lakeshore Road (Sub-Transmission Watermain and Trunk Sewer)**:
  - Two shaft compound locations are identified as related to the Front Street Sewage Pumping Station. They are located in the northeast quadrant of the Front Street/Lakeshore Road West intersection within Marina Park and adjacent municipal

parking lot (Lot #2), and in the northeast quadrant of the Elmwood Avenue North/Lakeshore Road East intersection within the municipal parking lot (Lot #4). **Figure 2.4** illustrates the locations of the adjacent municipal parking lots within Port Credit.

- The anticipated work will consist of two components, Trunk Sewer and a new Sub-Transmission Watermain tunneled along Lakeshore Road.
- For both pieces of infrastructure, all associated tunnelling work will not result in any surface disturbance along Lakeshore Road.
- No major traffic impacts are anticipated with the proposed construction activities, that is, intersection operations and roadway capacity along Lakeshore Road.

- **Elmwood and Hiawatha Sewage Pumping Stations (SPSs)**:
  - Six shaft compound locations are required as part of the Elmwood and Hiawatha SPS component. It is noted regarding the red lines on Figure 2.3, no lane reductions or surface disturbances will occur. That is, along Elmwood Avenue South, Wanita Road, and Hiawatha Parkway.
    - An area situated south of St. Lawrence Drive, west of the Elmwood SPS will be occupied. No impacts to St. Lawrence Drive are anticipated as the roadway will not be impacted; however, the adjacent Waterfront Trail may potentially be impacted. As we understand the intent is to maintain or provide the existing active transportation facility while construction is occurring.
    - An area at the south end of Elmwood Avenue South, just south of Carlis Place. This construction zone is not anticipated to result in any direct traffic impacts to adjacent residents; however, the adjacent construction area of Elmwood Avenue South/Wanita Road will impact access for the residents south of Wanita Road.
    - The intersection of Elmwood Avenue South/Wanita Road is planned to be partially closed.

      The north leg of the intersection will be fully closed (i.e., no local traffic permitted). Aforementioned, the full closure of the north leg of the intersection will impact access for the residents south of Wanita Road (i.e., minor detouring will be required).

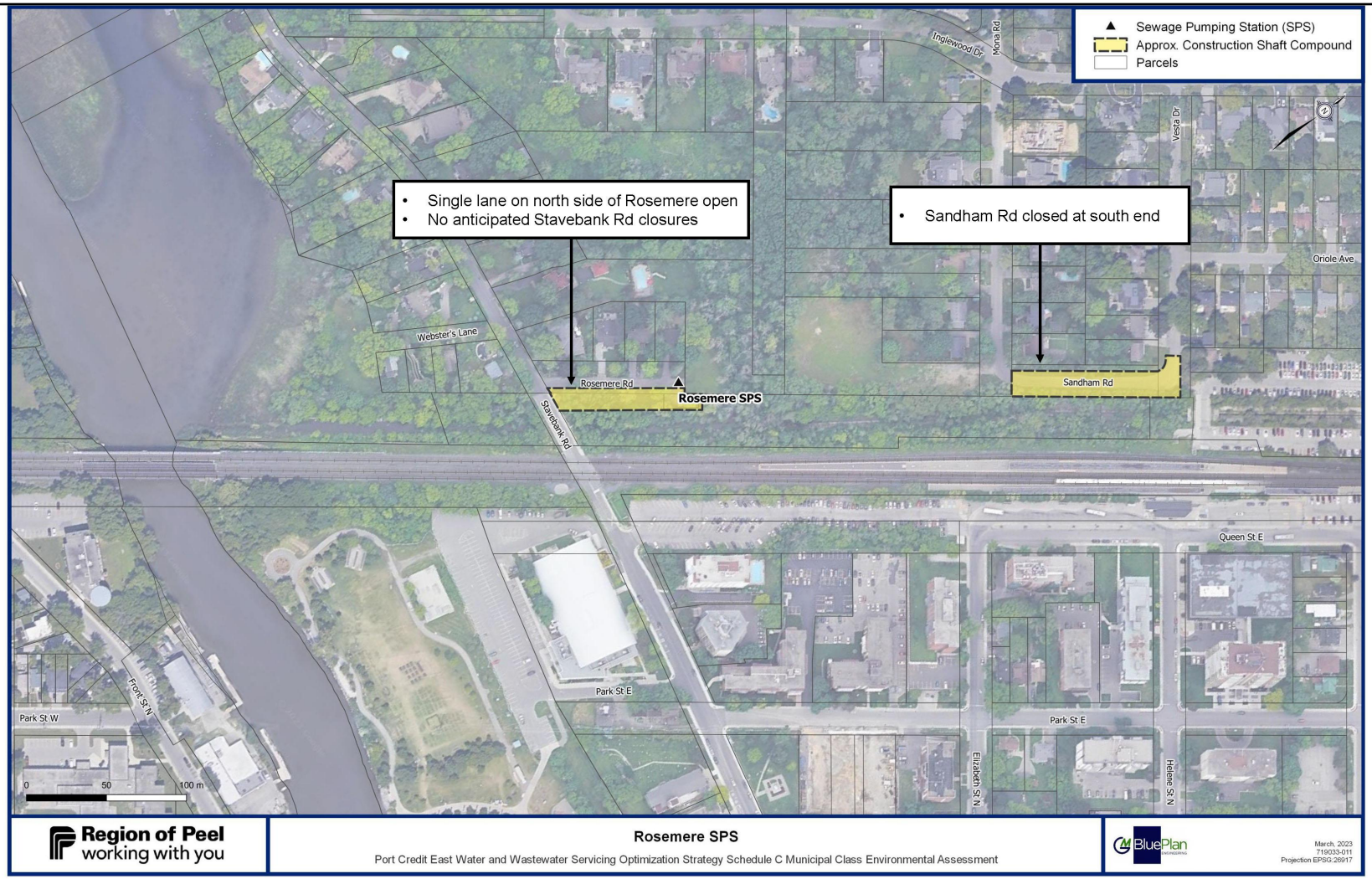
The east and south legs of the intersection will be reduced to a single lane to serve each travel direction for local traffic access.

- The intersection of Hiawatha Parkway/Wanita Road is planned to be fully closed. No local traffic will be permitted through this location requiring residents to utilize alternative travel routes within the neighbourhood.
- The area in immediate proximity surrounding the Hiawatha SPS situated at the south end of Hiawatha Parkway. The intersection of Hiawatha Parkway/Cumberland Drive is anticipated to remain open for all traffic.
- The intersection of Lakeshore Road East/Elmwood Avenue is planned to be partially closed.

  The north leg of the intersection will be fully closed (i.e., no local traffic permitted) to facilitate connection to existing maintenance holes. Traffic to and from the north leg will require minor detouring.

The following sections of this study focuses on the Elmwood and Hiawatha SPS construction impacts, as the associated construction plans involving partial/full intersection closures which has a direct impact on vehicular traffic and routing.

For the remaining components (i.e., Rosemere SPS and Lakeshore Road), it is anticipated the transportation impacts would be minor and can be accommodated by the existing transportation network due to the lack of surface disturbance and no roadway or intersection closures. **Section 6** provides additional discussion and provides an impact assessment summary of all associated components.

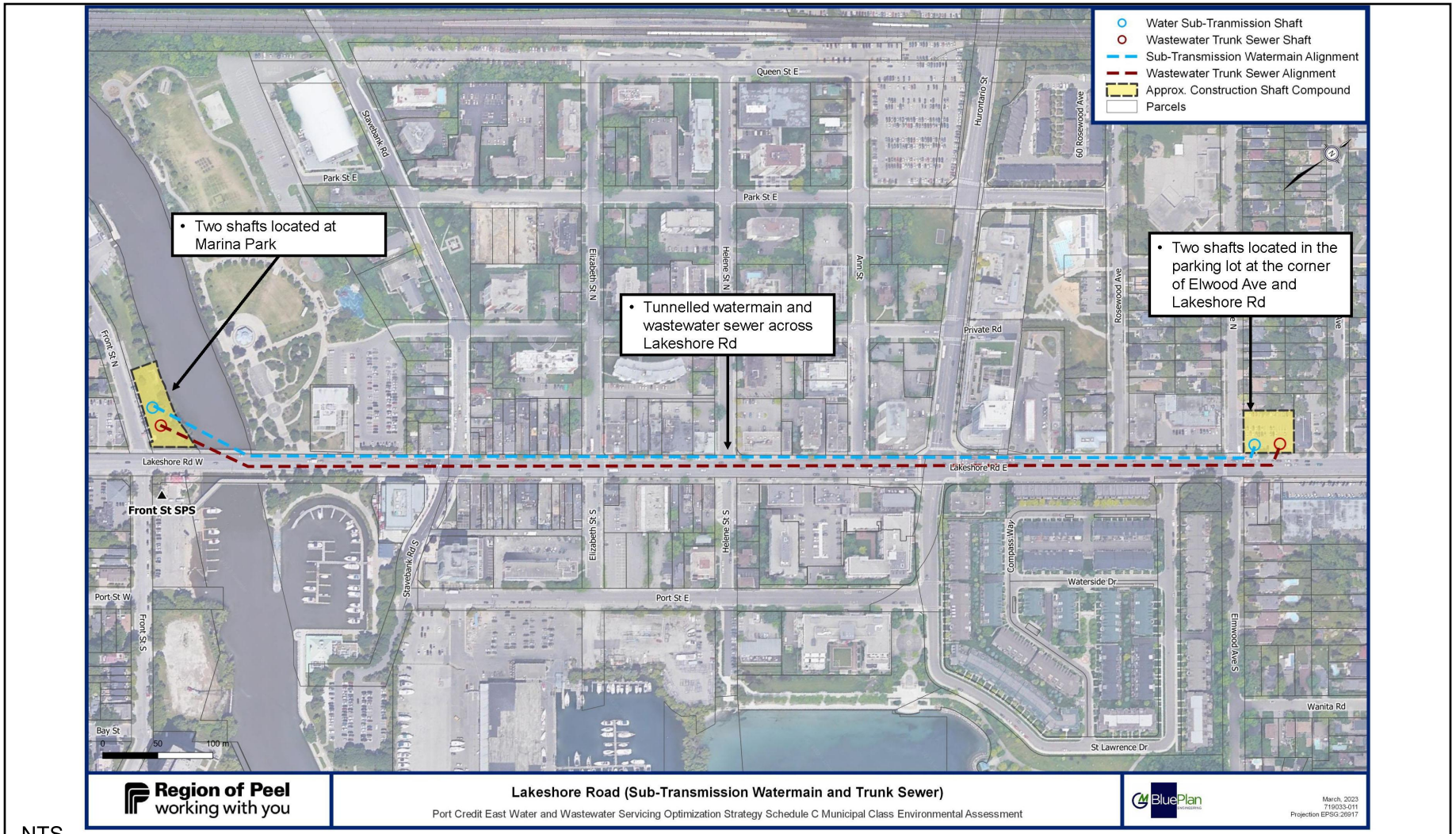


NTS

Image Source: GM BluePlan Engineering Limited

paradigm TRANSPORTATION SOLUTIONS LIMITED

Rosemere SPS

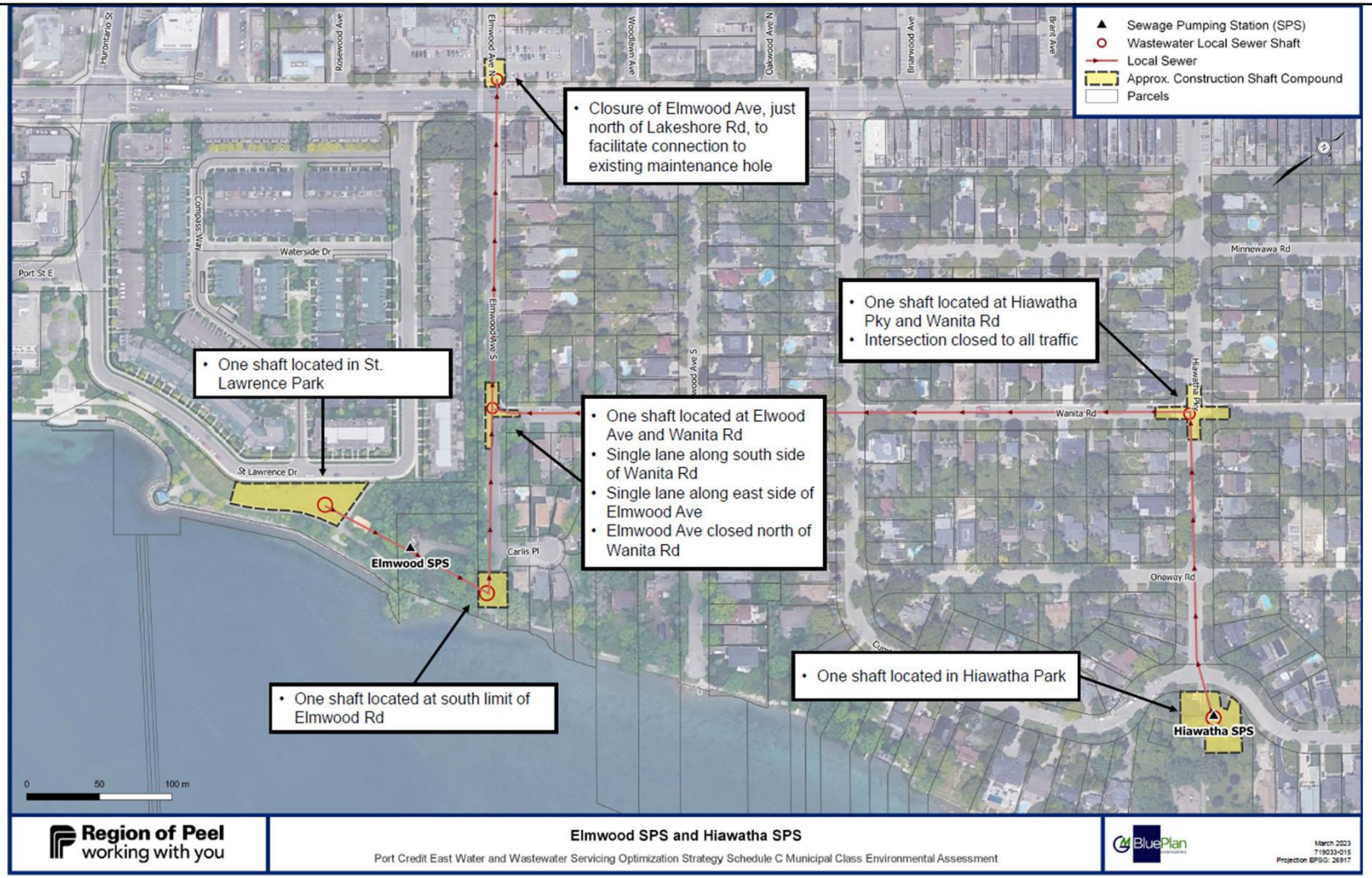


NTS

Image Source: GM BluePlan Engineering Limited

paradigm TRANSPORTATION SOLUTIONS LIMITED

Lakeshore Road
Sub-Transmission Watermain and Trunk Sewer



NTS

Image Source: GM BluePlan Engineering Limited

paradigm TRANSPORTATION SOLUTIONS LIMITED

Elmwood and Hiawatha SPS

Port Credit Municipal Parking Lots

3 Existing Conditions

3.1 Road Network Characteristics

The characteristics of the roads and intersections for the study area related to the Elmwood and Hiawatha SPSs component are described below. Reference is made to *Schedule 5 – Long Term Road Network*[2] of the City of Mississauga Official Plan for roadway classification.

- **Lakeshore Road East** is an east-west arterial roadway with four travel lanes (two lanes in each direction) within the study area limits. The roadway has a posted speed limit of 50 km/h;
- **Wanita Road** is an east-west local roadway with two travel lanes (one lane in each direction) within the study area limits. The posted speed limit is 40 km/h;
- **Rosewood Avenue** is a north-south local roadway with two travel lanes (one lane in each direction) within the study area limits. The roadway has a posted speed limit of 40 km/h;
- **Elmwood Avenue** is a north-south local roadway with two travel lanes (one lane in each direction) within the study area limits. The posted speed limit is 40 km/h;
- **Woodlawn Avenue** is a north-south local roadway with two travel lanes (one lane in each direction) within the study area limits. The roadway has a posted speed limit of 40 km/h;
- **Cumberland Drive** is a north-south local roadway with two travel lanes (one lane in each direction) within the study area limits. The posted speed limit is 40km/h;
- **Hiawatha Parkway** is a north-south local roadway with two travel lanes (one lane in each direction) within the study area limits. The posted speed limit is 40 km/h. Hiawatha Parkway continues as Mohawk Avenue north of Lakeshore Road East; and
- **Wenonah Drive** is a north-south local roadway with two travel lanes (one lane in each direction) within the study area limits. The roadway has a posted speed limit of 40 km/h;

Within the study area there are three signalized intersections formed with Lakeshore Road East. Full traffic signals exist at Cumberland Drive, and Hiawatha Parkway, while Intersection Pedestrian Signal (IPS) provisions are provided at the Elmwood Avenue intersection.

[2] City of Mississauga, *Official Plan, Schedule 5 – Long Term Road Network*, October 2021.

The intersection of Elmwood Avenue South/Wanita Road operates unsignalized, with stop control provided on the Wanita Road approach.

The intersections of Lakeshore Road East with Rosewood Avenue and Woodlawn Avenue operate unsignalized, with stop control provided on the minor road approaches (i.e., Rosewood Avenue and Woodlawn Avenue).

The intersection of Lakeshore Road East/Wenonah Drive operates unsignalized, with stop control provided on the Wenonah Drive approach. It is noted the northbound approach provides enough pavement width to accommodate two vehicles (i.e., a vehicle waiting to make a left-turn movement onto Lakeshore Road, while another vehicle wanting to make a right-turn movement onto Lakeshore Road can fit).

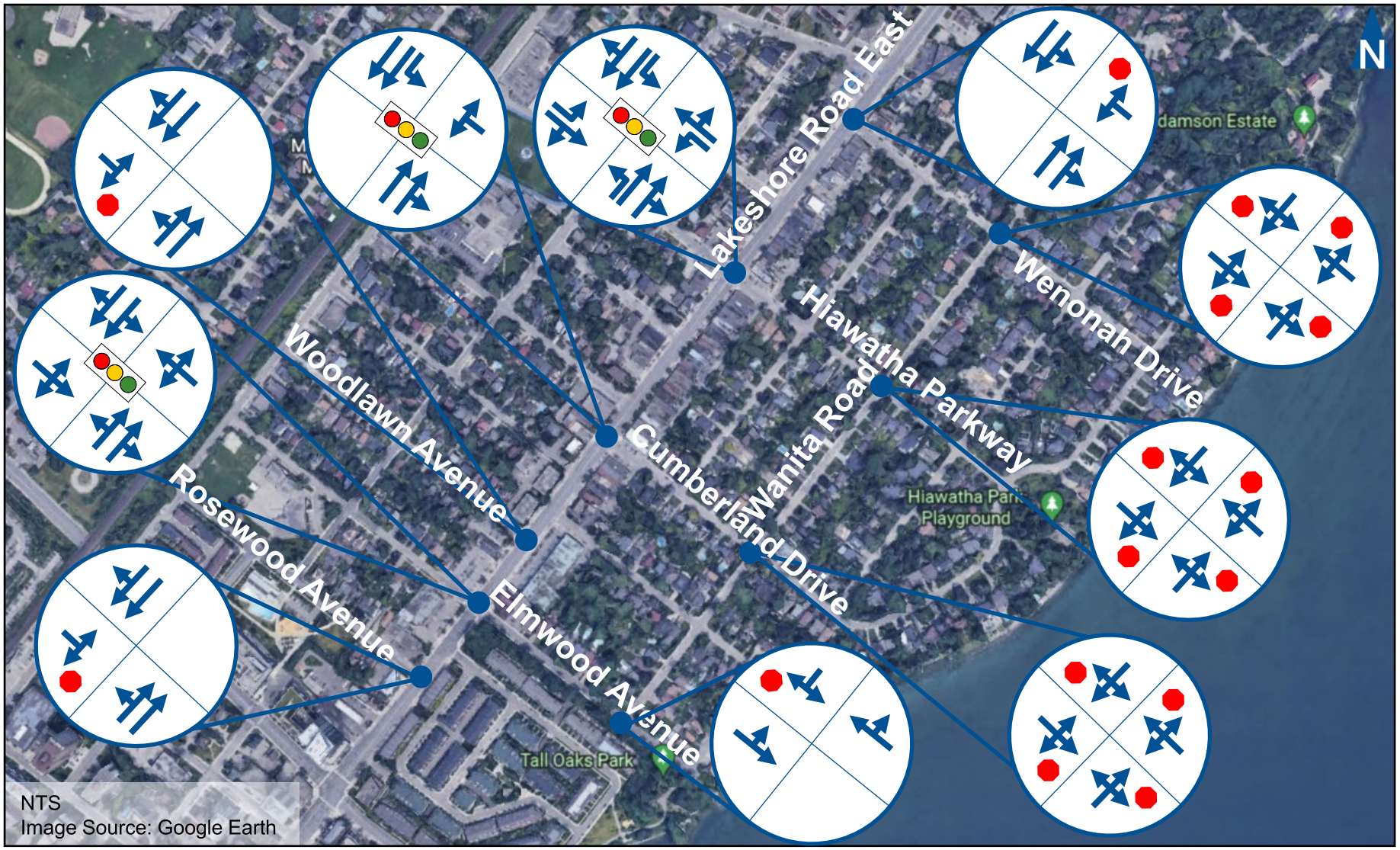
The remaining study area intersections all operate unsignalized with all-way stop-control (i.e., 4-way stop).

Figure 3.1 illustrates the existing lane configurations and traffic control at the study area intersections.

3.2 Traffic Volumes

To assess intersection operations, turning movement counts (TMCs) are used to quantify the movement of vehicles, pedestrians, trucks, buses, and cyclists through an intersection. Existing traffic data at an intersection or on a road section forms the foundation for operational analysis. The counts are usually collected during peak periods to complete level of service (LOS) analysis under its worst-case operating conditions.

Paradigm collected TMCs at the study area intersections on 08 November 2022 (Tuesday) and 05 April 2023 (Wednesday). The data was counted in 15-minute intervals and vehicles were classified by type. From the counts, the respective AM peak hour and PM peak hour for each intersection was established. **Table 3.1** summarizes the AM and PM peak hours for each intersection.



paradigm TRANSPORTATION SOLUTIONS LIMITED

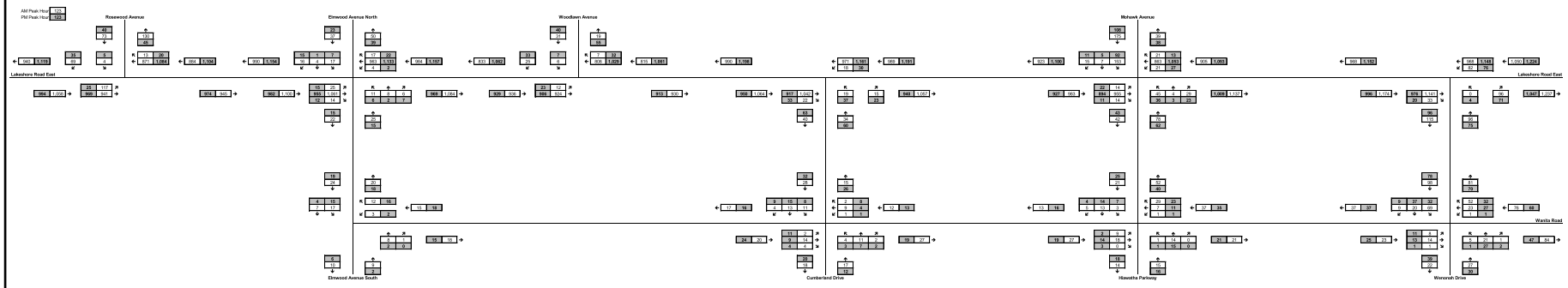
Existing Lane Configurations and Traffic Control

TABLE 3.1: INTERSECTION PEAK HOURS

Intersection	Date	AM Peak	PM Peak
Lakeshore Road East and Rosewood Avenue	05 April 2023 (Wednesday)	8:00 – 9:00	4:45 – 5:45
Lakeshore Road East and Woodlawn Avenue		8:00 – 9:00	4:45 – 5:45
Lakeshore Road East and Elmwood Avenue	08 November 2022 (Tuesday)	8:00 – 9:00	4:45 – 5:45
Lakeshore Road East and Cumberland Drive		8:00 – 9:00	4:30 – 5:30
Lakeshore Road East and Hiawatha Parkway		8:00 – 9:00	4:30 – 5:30
Lakeshore Road East and Wenonah Drive		8:00 – 9:00	4:15 – 5:15
Wanita Road and Elmwood Avenue		8:30 – 9:30	3:00 – 4:00
Wanita Road and Cumberland Drive		8:15 – 9:15	3:30 – 4:30
Wanita Road and Hiawatha Parkway		8:15 – 9:15	3:15 – 4:15
Wanita Road and Wenonah Drive		8:15 – 9:15	3:15 – 4:15

Figure 3.2 illustrates the base year traffic volumes for the weekday AM and PM peak hours.

Appendix A contains the detailed turning movement count data for reference.



NTS

paradigm TRANSPORTATION SOLUTIONS LIMITED

Base Year (2022) Traffic Volumes

3.3 Existing Traffic Operations

Intersection level of service (LOS) is a recognized method of quantifying the average delay experienced by drivers at intersections. It is based on delay experienced by individual vehicles executing various movements. The delay is related to the number of vehicles intending to make a particular movement, compared to the estimated capacity for that movement. The capacity is based on several criteria related to opposing traffic flows, intersection geometry, and at signalized intersections, signal timing.

The highest possible rating is LOS A, under which the average total delay is equal or less than 10 seconds per vehicle. When the average delay exceeds 80 seconds for signalized intersections, 50 seconds for unsignalized intersections or when the volume to capacity ratio is greater than 1.00, the movement is classed as LOS F, and remedial measures are usually implemented if they are feasible. Capacity is evaluated in terms of the ratio of demand flow to capacity with an at-capacity condition represented by a volume-to-capacity (v/c) ratio of 1.00 (i.e., volume demand equals capacity).

The City of Mississauga *Traffic Impact Study Guidelines*[3] identifies critical movements as follows:

- Signalized intersections:
  - v/c ratios for overall intersections operations, through movements or shared through/turning movements increase to 0.85 or above;
  - v/c ratios for exclusive movements increase to 0.90 or above; or
  - Queues for an individual movement are projected to exceed available turning lane storage.
- Unsignalized intersections:
  - LOS, based on average delay per vehicle or on individual movements is LOS E or greater; or
  - The estimated 95th percentile queue length for an individual movement exceeds the available lane storage.

To assess the existing peak hour automobile conditions, an operational analysis was conducted for the weekday AM and PM peak hour traffic volumes at the study area intersections using Synchro software, which

[3] City of Mississauga, *Traffic Impact Study Guidelines*, p12.

implements the methods of the Highway Capacity Manual (HCM). The key parameters used in the analysis include:

- Existing lane configurations;
  - As documented in Section 3.1, no pavement markings delineating lane configurations are provided for the northbound approach at the intersection of Lakeshore Road East/Wenonah Drive. Our assessment examined the lane configuration as both a single shared left/right-turn lane approach, and as a two-lane approach (separate left-turn and right-turn lanes) based upon the available roadway width (approximately nine metres).
- Heavy vehicle percentages derived from existing traffic count data;
- Conflicting pedestrian volumes derived from existing traffic count data;
- Calculated intersection peak hour factors (PHF), which facilitates an assessment of the busiest 15-minute period within the peak hour;
- Existing signal timing plans as obtained from the City, which are included for reference in **Appendix A**; and
- Synchro default values for all other inputs.

Table 3.2 and **Table 3.3** summarize the baseline operational analysis results including the LOS, average delay in seconds, v/c ratios, and 95th percentile queue lengths in metres for the weekday AM and PM peak hours, respectively. Any critical movements are highlighted in orange. **Appendix B** contains the Synchro analysis outputs for reference.

The results of the analysis indicate all study area intersections are operating at acceptable levels of service and well within capacity during the weekday AM and PM peak hours. The intersection of Lakeshore Road East/Wenonah Drive is reported to operate at similar levels of service under the two northbound approach configuration scenarios.

The 95th percentile queue lengths were checked for all turn lanes against provided storage, and queue lengths for through movements were also checked. No queue or spillback issues are identified.

TABLE 3.2: BASE YEAR (2022) AM PEAK HOUR TRAFFIC OPERATIONS

Analysis Period	Intersection	Control Type	MOE	Direction/Movement/Approach																
				Eastbound				Westbound				Northbound				Southbound				Overall
				Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	
AM Peak Hour	Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East	TCS	LOS	<	A	>	**A**	<	A	>	**A**	<	D	>	**D**	<	D	>	**D**	**A**
			Delay	<	10	>	**10**	<	7	>	**7**	<	45	>	**45**	<	45	>	**45**	**10**
			V/C	<	0.5	>		<	0.43	>		<	0.06	>		<	0.09	>		**0.5**
			Q	<	85	>		<	41	>		<	13	>		<	16	>		
	Cumberland Drive & Lakeshore Road East	TCS	LOS		A	>	**A**	A	A		**A**	E		>	**E**					**A**
			Delay		1	>	**1**	1	2		**2**	67		>	**67**					**2**
			V/C		0.36	>		0.05	0.33			0.27		>						**0.36**
			Q		9	>		2	29			17		>						
			Stor.		-	>		10	-			-		>						
			Avail.		-	>		8	-			-		>						
	Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East	TCS	LOS	A	A	>	**A**	A	A	>	**A**	D	D	>	**D**	E	D	>	**E**	**B**
			Delay	3	5	>	**5**	5	7	>	**6**	52	50	>	**51**	76	50	>	**72**	**13**
			V/C	0.05	0.42	>		0.08	0.39	>		0.23	0.04	>		0.80	0.04	>		**0.80**
			Q	4	85	>		5	68	>		25	11	>		72	10	>		
			Stor.	16	-	>		15	-	>		30	-	>		-	-	>		
			Avail.	12	-	>		10	-	>		5	-	>		-	-	>		
	Wenonah Drive & Lakeshore Road East (NB Shared Left/Right Turn Lane)	TWSC	LOS		A	>	**A**	<	A		**A**	B		>	**B**					
			Delay		0	>	**0**	<	5		**2**	14		>	**14**					
			V/C		0.49	>		<	0.42			0.2		>						
			Q		0	>		<	5			6		>						
	Wenonah Drive & Lakeshore Road East (NB Left and Right Turn Lanes)	TWSC	LOS		A	>	**A**	<	A		**A**	A		B	**B**					
			Delay		0	>	**0**	<	5		**2**	0		14	**14**					
			V/C		0.49	>		<	0.42			0.2		0.2						
			Q		0	>		<	5			0		6						
	Elmwood Avenue South & Wanita Road	TWSC	LOS					A		>	**A**		A	>	**A**	<	A		**A**	
			Delay					9		>	**9**		0	>	**0**	<	5		**5**	
			V/C					0.03		>			0.01	>		<	0.02			
			Q					1		>			0	>		<	1			
	Cumberland Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	
			V/C	<	0.03	>		<	0.02	>		<	0.03	>		<	0.05	>		
			Q	<	13	>		<	9	>		<	11	>		<	14	>		
	Hiawatha Parkway & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	
			V/C	<	0.04	>		<	0.05	>		<	0.02	>		<	0.03	>		
			Q	<	13	>		<	14	>		<	13	>		<	12	>		
	Wenonah Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	8	>	**8**	<	8	>	**8**	<	8	>	**8**	<	9	>	**9**	
			V/C	<	0.05	>		<	0.15	>		<	0.06	>		<	0.20	>		
			Q	<	14	>		<	18	>		<	12	>		<	18	>		
	Lakeshore Road East & Rosewood Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					B		>	**B**	
			Delay	<	5		**2**		0	>	**0**					14		>	**14**	
			V/C	<	0.41				0.38	>						0.18		>		
			Q	<	5				0	>						5		>		
	Lakeshore Road East & Woodlawn Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					B		>	**B**	
			Delay	<	1		**0**		0	>	**0**					14		>	**14**	
			V/C	<	0.38				0.33	>						0.07		>		
			Q	<	0				0	>						2		>		

MOE - Measure of Effectiveness
LOS - Level of Service
Delay - Average Delay per Vehicle in Seconds
V/C - Volume to Capacity Ratio

Q - 95th Percentile Queue Length (m)
Stor. - Existing Storage (m)
Avail. - Available Storage (m)
TCS - Traffic Control Signal

TWSC - Two-Way Stop Control
AWSC - All-Way Stop Control
< / > - Shared with through movement

TABLE 3.3: BASE YEAR (2022) PM PEAK HOUR TRAFFIC OPERATIONS

Analysis Period	Intersection	Control Type	MOE	Direction/Movement/Approach																
				Eastbound				Westbound				Northbound				Southbound				Overall
				Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	
PM Peak Hour	Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East	TCS	LOS	<	B	>	**B**	<	B	>	**B**	<	C	>	**C**	<	C	>	**C**	**B**
			Delay	<	13	>	**13**	<	14	>	**14**	<	25	>	**25**	<	25	>	**25**	**14**
			V/C	<	0.52	>		<	0.60	>		<	0.02	>		<	0.03	>		**0.60**
			Q	<	77	>		<	95	>		<	6	>		<	7	>		
	Cumberland Drive & Lakeshore Road East	TCS	LOS		A	>	**A**	A	A		**A**	D		>	**D**					**A**
			Delay		3	>	**3**	1	1		**1**	55		>	**55**					**3**
			V/C		0.34	>		0.07	0.41			0.34		>						**0.41**
			Q		35	>		2	15			24		>						
			Stor.		-	>		10	-			-		>						
			Avail.		-	>		8	-			-		>						
	Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East	TCS	LOS	A	A	>	**A**	A	A	>	**A**	D	D	>	**D**	E	D	>	**D**	**A**
			Delay	3	4	>	**4**	4	5	>	**5**	49	47	>	**48**	56	47	>	**55**	**8**
			V/C	0.07	0.34	>		0.07	0.41	>		0.23	0.03	>		0.60	0.03	>		**0.60**
			Q	4	37	>		5	62	>		19	9	>		40	8	>		
			Stor.	16	-	>		15	-	>		30	-	>		-	-	>		
			Avail.	12	-	>		10	-	>		11	-	>		-	-	>		
	Wenonah Drive & Lakeshore Road East (NB Shared Left/Right Turn Lane)	TWSC	LOS		A	>	**A**	<	A		**A**	C		>	**C**					
			Delay		0	>	**0**	<	3		**1**	16		>	**16**					
			V/C		0.41	>		<	0.48			0.2		>						
			Q		0	>		<	3			6		>						
	Wenonah Drive & Lakeshore Road East (NB Left and Right Turn Lanes)	TWSC	LOS		A	>	**A**	<	A		**A**	F		B	**C**					
			Delay		0	>	**0**	<	3		**1**	70		12	**15**					
			V/C		0.41	>		<	0.48			0.07		0.13						
			Q		0.0	>		<	3.4			2		4						
	Elmwood Avenue South & Wanita Road	TWSC	LOS					A		>	**A**		A	>	**A**	<	A		**A**	
			Delay					9		>	**9**		0	>	**0**	<	6		**6**	
			V/C					0.03		>			0	>		<	0.02			
			Q					1		>			0	>		<	0			
	Cumberland Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	
			V/C	<	0.04	>		<	0.02	>		<	0.02	>		<	0.05	>		
			Q	<	13	>		<	10	>		<	10	>		<	16	>		
	Hiawatha Parkway & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	
			V/C	<	0.03	>		<	0.05	>		<	0.03	>		<	0.04	>		
			Q	<	12	>		<	13	>		<	11	>		<	15	>		
	Wenonah Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	8	>	**8**	<	7	>	**7**	<	8	>	**8**	<	8	>	**8**	
			V/C	<	0.05	>		<	0.09	>		<	0.05	>		<	0.13	>		
			Q	<	14	>		<	14	>		<	14	>		<	14	>		
	Lakeshore Road East & Rosewood Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					B		>	**B**	
			Delay	<	1		**0**		0	>	**0**					14		>	**14**	
			V/C	<	0.4				0.45	>						0.1		>		
			Q	<	1				0	>						3		>		
	Lakeshore Road East & Woodlawn Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					C		>	**C**	
			Delay	<	1		**0**		0	>	**0**					15		>	**15**	
			V/C	<	0.39				0.44	>						0.11		>		
			Q	<	1				0	>						3		>		

MOE - Measure of Effectiveness
LOS - Level of Service
Delay - Average Delay per Vehicle in Seconds
V/C - Volume to Capacity Ratio
Q - 95th Percentile Queue Length (m)
Stor. - Existing Storage (m)
Avail. - Available Storage (m)
TCS - Traffic Control Signal
TWSC - Two-Way Stop Control
AWSC - All-Way Stop Control
< / > - Shared with through movement

4 Traffic Forecasts

4.1 Horizon Year

The construction duration is anticipated to be between 12 to 18 months for each component, staggered between 2024 and 2028. For assessment purposes both 2024 and 2028 horizons are analyzed.

Future traffic operations for study area intersections were assessed for two scenarios: all construction work to be conducted in 2024; and all construction work to be conducted in 2028. This represents a conservative approach (i.e., errs on the high side) as construction work is anticipated to occur between 2024 and 2028.

4.2 Traffic Growth

Generalized traffic growth was determined by applying a compound growth rate of 2.0% per annum compounded for two years (total growth of 4.0%), and six years (total growth of 13%) to the base year (2022) traffic volumes to derive 2024 and 2028 traffic forecasts, respectively.

Review of historical intersection counts (2006, 2016, 2019 data) along Lakeshore Road in comparison to the 2022 count data indicates negative growth. The lower 2022 traffic volumes are likely the result of the paradigm shift of changes in work environments due to COVID-19. As found across the GTA a majority of employees are now either fully working from home or following a hybrid approach with reduced days in the office.

Regardless, the application of a 2.0% growth rate represents a conservative approach (i.e., errs on the high side) for assessment purposes.

Figure 4.1 and **Figure 4.2** illustrate the 2024 and 2028 traffic forecasts (without construction) for the weekday AM and PM peak hours, respectively.

4.3 Traffic Redistribution

As previously described in **Section 2**, construction activities related to the Elmwood and Hiawatha SPS component requires the partial intersection closure of Lakeshore Road East/Elmwood Avenue (north leg fully closed, while the east, west, and south legs remain open for access), Elmwood Avenue South/Wanita Road (north leg fully closed, while the east and south legs remain open for local access), and the

full intersection closure of Hiawatha Parkway/Wanita Road (all intersection legs fully closed, no traffic permitted through).

The intersection closures result in requiring one or more directions to utilize alternative routes. In order to assess the identified construction plans and the associated impacts on the existing road network, the 2024 and 2028 traffic forecasts have been redistributed to reflect travel pattern changes brought on by the partial and full closure of intersections.

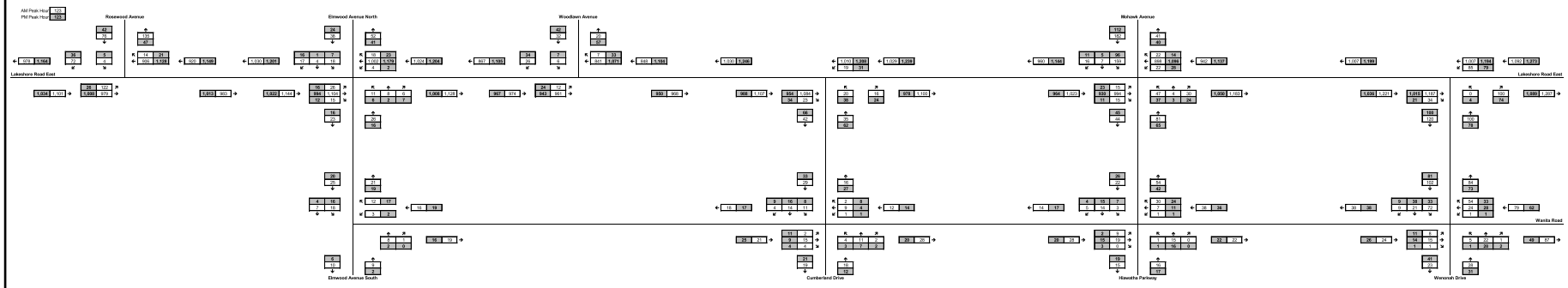
Given the grid layout of the transportation network, there are many different routing options possible; however, for assessment purposes we have assumed the following related to the redistribution of traffic:

- **Partial intersection closure of Lakeshore Road East/Elmwood Avenue. North leg of the intersection will be fully closed only.**
  - Traffic is diverted to the adjacent intersections of Lakeshore Road East/Rosewood Avenue, and Lakeshore Road East/Woodlawn Avenue.
- **Partial intersection closure of Elmwood Avenue South/Wanita Road. North leg of the intersection will be fully closed only.**
  - Traffic is diverted to the adjacent intersections of Cumberland Drive/Lakeshore Road East, and Cumberland Drive/Wanita Road.
- **Full intersection closure of Hiawatha Parkway/Wanita Road. All intersection legs will be closed.**
  - Traffic is diverted to the adjacent study area intersections of Cumberland Drive/Wanita Road, and Wenonah Drive/Wanita Road.

It is noted the traffic redistribution exercise undertaken is conservative (i.e., errs on the high side) recognizing there are multiple alternative travel route opportunities.

Appendix C provides detailed traffic redistribution for each closed/impacted turning movement for reference.

Figure 4.3 and **Figure 4.4** illustrate the 2024 and 2028 traffic forecasts during construction, respectively.

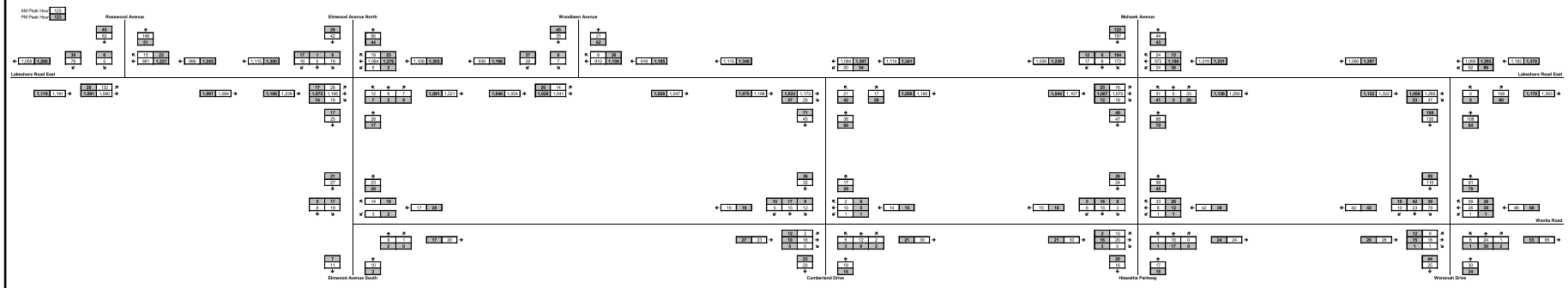


NTS

2024 Traffic Forecasts (Without Construction)

Port Credit East Water and Wastewater Servicing Optimization Strategy – Traffic Impact Study
190562

Figure 4.1

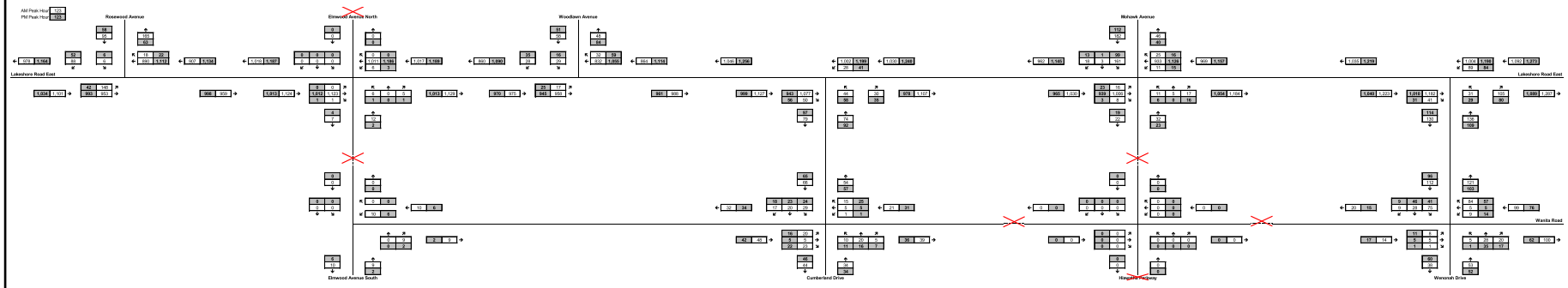


NTS

2028 Traffic Forecasts (Without Construction)

Port Credit East Water and Wastewater Servicing Optimization Strategy – Traffic Impact Study
190562

Figure 4.2

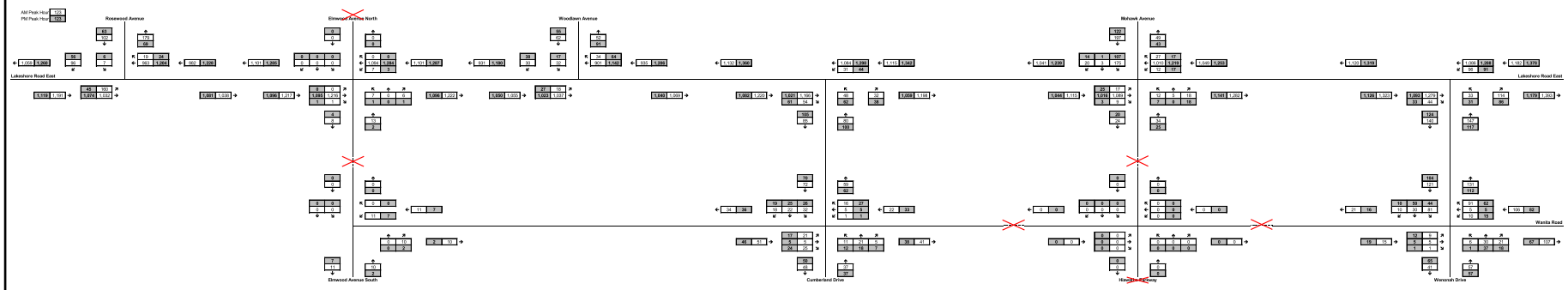


NTS

2024 Traffic Forecasts (During Construction)

Port Credit East Water and Wastewater Servicing Optimization Strategy – Traffic Impact Study
190562

Figure 4.3



NTS

2028 Traffic Forecasts (During Construction)

5 Construction Traffic Operations

5.1 2024 and 2028 Horizons Without Construction

To assess the automobile operating conditions for the 2024 and 2028 traffic forecasts during the study peak hours without construction conditions, operational analyses were undertaken using the same methodology, parameters, lane arrangements, and traffic control devices as in the analysis of base year conditions.

Table 5.1 and **Table 5.2** summarize the results of the operational analysis for 2024 horizon without construction during the weekday AM and PM peak hours, respectively.

Table 5.3 and **Table 5.4** summarize the results of the operational analysis for 2028 horizon without construction during the weekday AM and PM peak hours, respectively.

Appendix D contains the Synchro analysis outputs for reference.

The results indicate the study area intersections are forecast to operate at similar levels of service as noted under base year conditions, but slightly exacerbated accounting for the estimated traffic growth.

Under the 2024 and 2028 conditions without construction, the study area intersections are forecast to continue operating at acceptable levels of service and well within capacity.

The exception would be a single critical movement identified. At Lakeshore Road East/Wenonah Drive, the northbound left-turn movement (under the two-lane approach scenario) is forecast to operate at a LOS F during the PM peak hour under both 2024 and 2028 horizons.

However, this is not considered a critical issue as the movement is reported to be operating well within capacity (v/c = 0.08 under 2024 and 0.13 under 2028), and this is not an unusual condition where a minor road (Wenonah Drive) operating under stop control intersects with a major road (Lakeshore Road East). No other critical movements are identified.

TABLE 5.1: 2024 AM PEAK HOUR TRAFFIC OPERATIONS (WITHOUT CONSTRUCTION)

Analysis Period	Intersection	Control Type	MOE	Direction/Movement/Approach																
				Eastbound				Westbound				Northbound				Southbound				Overall
				Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	
AM Peak Hour	Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East	TCS	LOS	<	B	>	B	<	A	>	A	<	D	>	D	<	D	>	D	A
			Delay	<	10	>	10	<	7	>	7	<	45	>	45	<	45	>	45	10
			V/C	<	0.52	>		<	0.44	>		<	0.06	>		<	0.09	>		0.52
			Q	<	90	>		<	43	>		<	13	>		<	16	>		
	Cumberland Drive & Lakeshore Road East	TCS	LOS		A	>	A	A	A		A	E		>	E					A
			Delay		1	>	1	2	2		2	64		>	64					2
			V/C		0.38	>		0.05	0.35			0.22		>						0.38
			Q		9	>		2	30			17		>						
			Stor.		-	>		10	-			-		>						
			Avail.		-	>		8	-			-		>						
	Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East	TCS	LOS	A	A	>	A	A	A	>	A	D	D	>	D	E	D	>	E	B
			Delay	1	2	>	2	5	7	>	7	51	49	>	50	76	49	>	73	11
			V/C	0.05	0.44	>		0.08	0.41	>		0.24	0.04	>		0.81	0.04	>		0.81
			Q	1	13	>		6	72	>		26	11	>		75	10	>		
			Stor.	16	-	>		15	-	>		30	-	>		-	-	>		
			Avail.	15	-	>		9	-	>		4	-	>		-	-	>		
	Wenonah Drive & Lakeshore Road East (NB Shared Left/Right Turn Lane)	TWSC	LOS		A	>	A	<	A		A	B		>	B					
			Delay		0	>	0	<	5		2	14		>	14					
			V/C		0.51	>		<	0.43			0.21		>						
			Q		0	>		<	5			6		>						
	Wenonah Drive & Lakeshore Road East (NB Left and Right Turn Lanes)	TWSC	LOS		A	>	A	<	A		A	A		B	B					
			Delay		0	>	0	<	5		2	0		6	14					
			V/C		0.51	>		<	0.43			0		0.21						
			Q		0	>		<	5			0		6						
	Elmwood Avenue South & Wanita Road	TWSC	LOS					A		>	A		A	>	A	<	A		A	
			Delay					9		>	9		0	>	0	<	5		5	
			V/C					0.03		>			0.01	>		<	0.02			
			Q					1		>			0	>		<	1			
	Cumberland Drive & Wanita Road	AWSC	LOS	<	A	>	A	<	A	>	A	<	A	>	A	<	A	>	A	
			Delay	<	7	>	7	<	7	>	7	<	7	>	7	<	7	>	7	
			V/C	<	0.04	>		<	0.02	>		<	0.03	>		<	0.05	>		
			Q	<	12	>		<	10	>		<	11	>		<	16	>		
	Hiawatha Parkway & Wanita Road	AWSC	LOS	<	A	>	A	<	A	>	A	<	A	>	A	<	A	>	A	
			Delay	<	7	>	7	<	7	>	7	<	7	>	7	<	7	>	7	
			V/C	<	0.04	>		<	0.05	>		<	0.02	>		<	0.03	>		
			Q	<	13	>		<	14	>		<	10	>		<	12	>		
	Wenonah Drive & Wanita Road	AWSC	LOS	<	A	>	A	<	A	>	A	<	A	>	A	<	A	>	A	
			Delay	<	8	>	8	<	8	>	8	<	8	>	8	<	9	>	9	
			V/C	<	0.05	>		<	0.15	>		<	0.06	>		<	0.21	>		
			Q	<	15	>		<	15	>		<	13	>		<	17	>		
	Lakeshore Road East & Rosewood Avenue	TWSC	LOS	<	A		A		A	>	A					C		>	C	
			Delay	<	5		2		0	>	0					15		>	15	
			V/C	<	0.43				0.39	>						0.19		>		
			Q	<	6				0	>						6		>		
	Lakeshore Road East & Woodlawn Avenue	TWSC	LOS	<	A		A		A	>	A					B		>	B	
			Delay	<	1		0		0	>	0					14		>	14	
			V/C	<	0.39				0.34	>						0.08		>		
			Q	<	0				0	>						2		>		

MOE - Measure of Effectiveness
LOS - Level of Service
Delay - Average Delay per Vehicle in Seconds
V/C - Volume to Capacity Ratio
Q - 95th Percentile Queue Length (m)
Stor. - Existing Storage (m)
Avail. - Available Storage (m)
TCS - Traffic Control Signal
TWSC - Two-Way Stop Control
AWSC - All-Way Stop Control
< / > - Shared with through movement

TABLE 5.2: 2024 PM PEAK HOUR TRAFFIC OPERATIONS (WITHOUT CONSTRUCTION)

Analysis Period	Intersection	Control Type	MOE	Direction/Movement/Approach																Overall
				Eastbound				Westbound				Northbound				Southbound				
				Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	
PM Peak Hour	Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East	TCS	LOS	<	B	>	**B**	<	B	>	**B**	<	C	>	**C**	<	C	>	**C**	**B**
			Delay	<	13	>	**13**	<	14	>	**14**	<	25	>	**25**	<	25	>	**25**	**14**
			V/C	<	0.55	>		<	0.62	>		<	0.02	>		<	0.03	>		**0.62**
			Q	<	81	>		<	101	>		<	6	>		<	8	>		
	Cumberland Drive & Lakeshore Road East	TCS	LOS		A	>	**A**	A	A		**A**	D		>	**D**					**A**
			Delay		3	>	**3**	1	2		**1**	55		>	**55**					**4**
			V/C		0.35	>		0.08	0.42			0.35		>						**0.42**
			Q		38	>		2	16			24		>						
			Stor.		-	>		10	-			-		>						
			Avail.		-	>		8	-			-		>						
	Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East	TCS	LOS	A	A	>	**A**	A	A	>	**A**	D	D	>	**D**	E	D	>	**D**	**A**
			Delay	4	4	>	**4**	4	5	>	**5**	48	47	>	**48**	56	47	>	**55**	**8**
			V/C	0.07	0.36	>		0.08	0.43	>		0.23	0.03	>		0.60	0.03	>		**0.60**
			Q	4	39	>		5	67	>		19	9	>		41	8	>		
			Stor.	16	-	>		15	-	>		30	-	>		-	-	>		
			Avail.	12	-	>		10	-	>		11	-	>		-	-	>		
	Wenonah Drive & Lakeshore Road East (NB Shared Left/Right Turn Lane)	TWSC	LOS		A	>	**A**	<	A		**A**	C		>	**C**					
			Delay		0	>	**0**	<	4		**1**	17		>	**17**					
			V/C		0.42	>		<	0.5			0.22		>						
			Q		0	>		<	4			7		>						
	Wenonah Drive & Lakeshore Road East (NB Left and Right Turn Lanes)	TWSC	LOS		A	>	**A**	<	A		**A**	F		B	**C**					
			Delay		0	>	**0**	<	4		**1**	80		12	**16**					
			V/C		0.42	>		<	0.5			0.08		0.14						
			Q		0	>		<	4			2		4						
	Elmwood Avenue South & Wanita Road	TWSC	LOS					A		>	**A**		A	>	**A**	<	A		**A**	
			Delay					9		>	**9**		0	>	**0**	<	6		**6**	
			V/C					0.03		>			0	>		<	0.02			
			Q					0.8		>			0.0	>		<	0.4			
	Cumberland Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	
			V/C	<	0.04	>		<	0.02	>		<	0.02	>		<	0.05	>		
			Q	<	13	>		<	10	>		<	11	>		<	15	>		
	Hiawatha Parkway & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	
			V/C	<	0.03	>		<	0.05	>		<	0.03	>		<	0.04	>		
			Q	<	12	>		<	13	>		<	12	>		<	14	>		
	Wenonah Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	8	>	**8**	<	7	>	**7**	<	8	>	**8**	<	8	>	**8**	
			V/C	<	0.05	>		<	0.10	>		<	0.05	>		<	0.13	>		
			Q	<	13	>		<	14	>		<	13	>		<	13	>		
	Lakeshore Road East & Rosewood Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					B		>	**B**	
			Delay	<	1		**0**		0	>	**0**					15		>	**15**	
			V/C	<	0.42				0.47	>						0.1		>		
			Q	<	1				0	>						3		>		
	Lakeshore Road East & Woodlawn Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					C		>	**C**	
			Delay	<	1		**0**		0	>	**0**					16		>	**16**	
			V/C	<	0.4				0.46	>						0.12		>		
			Q	<	1				0	>						3		>		

MOE - Measure of Effectiveness
LOS - Level of Service
Delay - Average Delay per Vehicle in Seconds
V/C - Volume to Capacity Ratio
Q - 95th Percentile Queue Length (m)
Stor. - Existing Storage (m)
Avail. - Available Storage (m)
TCS - Traffic Control Signal
TWSC - Two-Way Stop Control
AWSC - All-Way Stop Control
< / > - Shared with through movement

TABLE 5.3: 2028 AM PEAK HOUR TRAFFIC OPERATIONS (WITHOUT CONSTRUCTION)

Analysis Period	Intersection	Control Type	MOE	Direction/Movement/Approach																Overall
				Eastbound				Westbound				Northbound				Southbound				
				Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	
AM Peak Hour	Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East	TCS	LOS	<	B	>	**B**	<	A	>	**A**	<	D	>	**D**	<	D	>	**D**	**B**
			Delay	<	11	>	**11**	<	8	>	**8**	<	45	>	**45**	<	45	>	**45**	**10**
			V/C	<	0.57	>		<	0.48	>		<	0.07	>		<	0.10	>		**0.57**
			Q	<	103	>		<	50	>		<	14	>		<	17	>		
	Cumberland Drive & Lakeshore Road East	TCS	LOS		A	>	**A**	A	A		**A**	E		>	**E**					**A**
			Delay		1	>	**1**	2	2		**2**	64		>	**64**					**3**
			V/C		0.41	>		0.06	0.38			0.22		>						**0.41**
			Q		12	>		2	34			18		>						
			Stor.		-	>		10	-			-		>						
			Avail.		-	>		8	-			-		>						
	Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East	TCS	LOS	A	A	>	**A**	A	A	>	**A**	D	D	>	**D**	E	D	>	**E**	**B**
			Delay	2	2	>	**2**	6	8	>	**8**	50	48	>	**50**	78	48	>	**74**	**12**
			V/C	0.06	0.48	>		0.10	0.44	>		0.24	0.05	>		0.84	0.04	>		**0.84**
			Q	1	19	>		6	80	>		27	12	>		82	11	>		
			Stor.	16	-	>		15	-	>		30	-	>		-	-	>		
			Avail.	15	-	>		9	-	>		3	-	>		-	-	>		
	Wenonah Drive & Lakeshore Road East (NB Shared Left/Right Turn Lane)	TWSC	LOS		A	>	**A**	<	A		**A**	B		>	**B**					
			Delay		0	>	**0**	<	6		**2**	14		>	**14**					
			V/C		0.55	>		<	0.47			0.23		>						
			Q		0	>		<	7			7		>						
	Wenonah Drive & Lakeshore Road East (NB Left and Right Turn Lanes)	TWSC	LOS		A	>	**A**	<	A		**A**	A		B	**B**					
			Delay		0	>	**0**	<	6		**3**	0		14	**14**					
			V/C		0.55	>		<	0.47			0.13		0.23						
			Q		0	>		<	7			0		7						
	Elmwood Avenue South & Wanita Road	TWSC	LOS					A		>	**A**		A	>	**A**	<	A		**A**	
			Delay					9		>	**9**		0	>	**0**	<	5		**5**	
			V/C					0.03		>			0.01	>		<	0.02			
			Q					1		>			0	>		<	1			
	Cumberland Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	<	8	>	**8**	
			V/C	<	0.04	>		<	0.02	>		<	0.03	>		<	0.06	>		
			Q	<	12	>		<	10	>		<	13	>		<	15	>		
	Hiawatha Parkway & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	
			V/C	<	0.05	>		<	0.06	>		<	0.03	>		<	0.04	>		
			Q	<	13	>		<	15	>		<	12	>		<	12	>		
	Wenonah Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	8	>	**8**	<	8	>	**8**	<	8	>	**8**	<	9	>	**9**	
			V/C	<	0.06	>		<	0.17	>		<	0.07	>		<	0.24	>		
			Q	<	15	>		<	17	>		<	13	>		<	16	>		
	Lakeshore Road East & Rosewood Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					C		>	**C**	
			Delay	<	6		**2**		0	>	**0**					20		>	**20**	
			V/C	<	0.46				0.43	>						0.27		>		
			Q	<	7				0	>						9		>		
	Lakeshore Road East & Woodlawn Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					B		>	**B**	
			Delay	<	1		**0**		0	>	**0**					15		>	**15**	
			V/C	<	0.43				0.37	>						0.09		>		
			Q	<	1				0	>						2		>		

MOE - Measure of Effectiveness
LOS - Level of Service
Delay - Average Delay per Vehicle in Seconds
V/C - Volume to Capacity Ratio
Q - 95th Percentile Queue Length (m)
Stor. - Existing Storage (m)
Avail. - Available Storage (m)
TCS - Traffic Control Signal
TWSC - Two-Way Stop Control
AWSC - All-Way Stop Control
< / > - Shared with through movement

TABLE 5.4: 2028 PM PEAK HOUR TRAFFIC OPERATIONS (WITHOUT CONSTRUCTION)

Analysis Period	Intersection	Control Type	MOE	Direction/Movement/Approach																
				Eastbound				Westbound				Northbound				Southbound				Overall
				Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	
PM Peak Hour	Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East	TCS	LOS	<	B	>	**B**	<	B	>	**B**	<	C	>	**C**	<	C	>	**C**	**B**
			Delay	<	14	>	**14**	<	16	>	**16**	<	25	>	**25**	<	26	>	**26**	**15**
			V/C	<	0.59	>		<	0.67	>		<	0.02	>		<	0.03	>		**0.67**
			Q	<	92	>		<	115	>		<	6	>		<	8	>		
	Cumberland Drive & Lakeshore Road East	TCS	LOS		A	>	**A**	A	A		**A**	E		>	**E**					**A**
			Delay		3	>	**3**	1	2		**2**	55		>	**55**					**4**
			V/C		0.38	>		0.09	0.46			0.39		>						**0.46**
			Q		44	>		2	17			26		>						
			Stor.		-	>		10	-			-		>						
			Avail.		-	>		8	-			-		>						
	Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East	TCS	LOS	A	A	>	**A**	A	A	>	**A**	D	D	>	**D**	E	D	>	**E**	**A**
			Delay	4	4	>	**4**	4	6	>	**6**	48	46	>	**47**	57	46	>	**55**	**9**
			V/C	0.09	0.39	>		0.09	0.46	>		0.24	0.03	>		0.63	0.04	>		**0.63**
			Q	4	42	>		6	78	>		20	9	>		44	8	>		
			Stor.	16	-	>		15	-	>		30	-	>		-	-	>		
			Avail.	12	-	>		9	-	>		10	-	>		-	-	>		
	Wenonah Drive & Lakeshore Road East (NB Shared Left/Right Turn Lane)	TWSC	LOS		A	>	**A**	<	A		**A**	C		>	**C**					
			Delay		0	>	**0**	<	4		**2**	21		>	**21**					
			V/C		0.46	>		<	0.54			0.28		>						
			Q		0	>		<	4			9		>						
	Wenonah Drive & Lakeshore Road East (NB Left and Right Turn Lanes)	TWSC	LOS		A	>	**A**	<	A		**A**	F		B	**C**					
			Delay		0	>	**0**	<	4		**2**	109		13	**18**					
			V/C		0.46	>		<	0.54			0.13		0.15						
			Q		0	>		<	4			3		4						
	Elmwood Avenue South & Wanita Road	TWSC	LOS					A		>	**A**		A	>	**A**	<	A		**A**	
			Delay					9		>	**9**		0	>	**0**	<	6		**6**	
			V/C					0.04		>			0	>		<	0.02			
			Q					1		>			0	>		<	0			
	Cumberland Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	
			V/C	<	0.04	>		<	0.02	>		<	0.02	>		<	0.05	>		
			Q	<	13	>		<	11	>		<	11	>		<	14	>		
	Hiawatha Parkway & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	7	>	**7**	<	8	>	**8**	
			V/C	<	0.03	>		<	0.06	>		<	0.03	>		<	0.05	>		
			Q	<	12	>		<	13	>		<	12	>		<	14	>		
	Wenonah Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	8	>	**8**	<	8	>	**8**	<	8	>	**8**	<	8	>	**8**	
			V/C	<	0.05	>		<	0.11	>		<	0.06	>		<	0.15	>		
			Q	<	13	>		<	14	>		<	14	>		<	13	>		
	Lakeshore Road East & Rosewood Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					C		>	**C**	
			Delay	<	2		**0**		0	>	**0**					18		>	**18**	
			V/C	<	0.45				0.5	>						0.14		>		
			Q	<	1				0	>						4		>		
	Lakeshore Road East & Woodlawn Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					C		>	**C**	
			Delay	<	2		**0**		0	>	**0**					17		>	**17**	
			V/C	<	0.43				0.49	>						0.14		>		
			Q	<	1				0	>						4		>		

MOE - Measure of Effectiveness
LOS - Level of Service
Delay - Average Delay per Vehicle in Seconds
V/C - Volume to Capacity Ratio
Q - 95th Percentile Queue Length (m)
Stor. - Existing Storage (m)
Avail. - Available Storage (m)
TCS - Traffic Control Signal
TWSC - Two-Way Stop Control
AWSC - All-Way Stop Control
< / > - Shared with through movement

5.2 2024 and 2028 Horizons During Construction

To assess the automobile operations for the 2024 and 2028 traffic forecasts during the study peak hours during construction conditions, operational analyses were undertaken using the same methodology, parameters, lane arrangements, and traffic control devices as in the analysis of base year conditions.

Table 5.5 and **Table 5.6** summarize the results of the operational analysis for 2024 horizon during construction conditions during the weekday AM and PM peak hours, respectively.

Table 5.7 and **Table 5.8** summarize the results of the operational analysis for 2028 horizon during construction conditions during the weekday AM and PM peak hours, respectively.

Appendix E contains the Synchro analysis outputs for reference.

The results indicate the study area intersections are forecast to operate at similar levels of service as noted under the conditions without construction. All study area intersections are forecast to operate at acceptable levels of service and well within capacity during the weekday AM and PM peak hours.

Similar to without construction conditions, the exception includes the northbound left-turn movement at Lakeshore Road East/Wenonah Drive.

Under the 2024 conditions during construction, with the shared left/right-turn lane configuration (i.e., representative of the more conservative assessment), the northbound approach is forecast to operate at a LOS F and slightly over-capacity (v/c = 1.08) during the AM peak hour, and at a LOS F and within capacity (v/c = 0.76) during the PM peak hour. Given the sufficient roadway width provisions and based upon field observations, it is more likely that the Wenonah Drive approach will continue to function and operate as a two-lane approach facilitating separate left-turn and right-turn movements.

When analyzed with two lanes, the northbound left-turn movement is reported to operate at a LOS F during both AM and PM peak hours, this is not considered a critical issue as the movement is reported to be operating well within capacity (v/c = 0.86 for AM peak hour and v/c = 0.61 for PM peak hour). Aforementioned, this is not an unusual condition where a minor road (Wenonah Drive) operating under stop control intersects with a major road (Lakeshore Road East).

Under the 2028 conditions during construction, the northbound approach at Lakeshore Road East/Wenonah Drive is forecast to operate exceeding capacity (v/c > 1.00) under both lane approach configurations during the AM peak hour, and for the shared left/right-turn approach during the PM peak hour.

However, this is not considered a critical issue due to the following rationale:

- The 2028 traffic forecasts estimate approximately 30 vehicles turning left onto Lakeshore Road East from Wenonah Drive during both peak hours. This amount of traffic is considered minor and is equivalent to approximately one vehicle every two minutes;
- The estimated 30 left-turning vehicles per peak hour is a result of the conservative redistribution assumed. The forecast over-capacity issue is reflective of the conservative traffic redistribution exercise; and
- Given the grid layout of the adjacent residential neighbourhood, the northbound left-turn volumes at Lakeshore Road East/Wenonah Drive could be diverted to nearby intersections (e.g., Minnewawa Road/Wenonah Drive and Minnewawa Road/Hiawatha Parkway). Residents may choose to pursue other routes to avoid the over-capacity operations, and the noted potential intersection operations may be improved if there is less traffic to be processed through.

The 95th percentile queue lengths were checked for all turn lanes against provided storage, and queue lengths for through movements were also checked. No spillback issues are identified.

Furthermore, given our conservative approach to the anticipated redistribution travel routes, in reality, residents may choose to pursue other routes and the noted potential intersection operations may be improved if there is less traffic to be processed through.

TABLE 5.5: 2024 AM PEAK HOUR TRAFFIC OPERATIONS (DURING CONSTRUCTION)

Analysis Period	Intersection	Control Type	MOE	Direction/Movement/Approach																
				Eastbound				Westbound				Northbound				Southbound				Overall
				Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	
AM Peak Hour	Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East	TCS	LOS	<	A	>	A	<	A	>	A	<	D	>	D	<	A	>	A	A
			Delay	<	9	>	9	<	8	>	8	<	44	>	44	<	0	>	0	9
			V/C	<	0.46	>		<	0.44	>		<	0.01	>		<	0	>		0.46
			Q	<	82	>		<	50	>		<	4	>		<	0	>		
	Cumberland Drive & Lakeshore Road East	TCS	LOS		A	>	A	A	A		A	E		>	E					A
			Delay		1	>	1	2	2		2	67		>	67					4
			V/C		0.39	>		0.08	0.35			0.50		>						0.50
			Q		10	>		4	40			32		>						
			Stor.		-	>		10	-			-		>						
			Avail.		-	>		6	-			-		>						
	Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East	TCS	LOS	A	A	>	A	A	A	>	A	D	D	>	D	E	D	>	E	B
			Delay	2	2	>	2	5	7	>	7	49	49	>	49	76	49	>	73	11
			V/C	0.06	0.44	>		0.04	0.42	>		0.05	0.04	>		0.81	0.02	>		0.81
			Q	1	19	>		3	76	>		9	10	>		76	9	>		
			Stor.	16	-	>		15	-	>		30	-	>		-	-	>		
			Avail.	15	-	>		12	-	>		21	-	>		-	-	>		
	Wenonah Drive & Lakeshore Road East (NB Shared Left/Right Turn Lane)	TWSC	LOS		A	>	A	<	A		A	F		>	F					
			Delay		0	>	0	<	6		2	164		>	164					
			V/C		0.51	>		<	0.43			1.08		>						
			Q		0	>		<	6			66		>						
	Wenonah Drive & Lakeshore Road East (NB Left and Right Turn Lanes)	TWSC	LOS		A	>	A	<	A		A	F		B	B					
			Delay		0	>	0	<	6		2	256		14	69					
			V/C		0.51	>		<	0.43			0.86		0.22						
			Q		0	>		<	6			26		7						
	Elmwood Avenue South & Wanita Road	TWSC	LOS					A		>	A		A	>	A	<	A		A	
			Delay					9		>	9		0	>	0	<	0		0	
			V/C					0.02		>			0.01	>		<	0			
			Q					1		>			0	>		<	0			
	Cumberland Drive & Wanita Road	AWSC	LOS	<	A	>	A	<	A	>	A	<	A	>	A	<	A	>	A	
			Delay	<	7	>	7	<	7	>	7	<	8	>	8	<	8	>	8	
			V/C	<	0.08	>		<	0.04	>		<	0.06	>		<	0.12	>		
			Q	<	13	>		<	11	>		<	13	>		<	17	>		
	Wenonah Drive & Wanita Road	AWSC	LOS	<	A	>	A	<	A	>	A	<	A	>	A	<	A	>	A	
			Delay	<	8	>	8	<	8	>	8	<	8	>	8	<	9	>	9	
			V/C	<	0.03	>		<	0.19	>		<	0.11	>		<	0.24	>		
			Q	<	12	>		<	26	>		<	14	>		<	17	>		
	Lakeshore Road East & Rosewood Avenue	TWSC	LOS	<	A		A		A	>	A					C		>	C	
			Delay	<	6		2		0	>	0					18		>	18	
			V/C	<	0.42				0.39	>						0.28		>		
			Q	<	7				0	>						9		>		
	Lakeshore Road East & Woodlawn Avenue	TWSC	LOS	<	A		A		A	>	A					C		>	C	
			Delay	<	1		0		0	>	0					20		>	20	
			V/C	<	0.39				0.34	>						0.2		>		
			Q	<	1				0	>						6		>		

MOE - Measure of Effectiveness
LOS - Level of Service
Delay - Average Delay per Vehicle in Seconds
V/C - Volume to Capacity Ratio
Q - 95th Percentile Queue Length (m)
Stor. - Existing Storage (m)
Avail. - Available Storage (m)
TCS - Traffic Control Signal
TWSC - Two-Way Stop Control
AWSC - All-Way Stop Control
< / > - Shared with through movement

TABLE 5.6: 2024 PM PEAK HOUR TRAFFIC OPERATIONS (DURING CONSTRUCTION)

Analysis Period	Intersection	Control Type	MOE	Direction/Movement/Approach																Overall
				Eastbound				Westbound				Northbound				Southbound				
				Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	
PM Peak Hour	Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East	TCS	LOS	<	B	>	**B**	<	B	>	**B**	<	C	>	**C**	<	A	>	**A**	**B**
			Delay	<	12	>	**12**	<	14	>	**14**	<	25	>	**25**	<	0	>	**0**	**14**
			V/C	<	0.50	>		<	0.61	>		<	0	>		<	0	>		**0.61**
			Q	<	76	>		<	99	>		<	0	>		<	0	>		
	Cumberland Drive & Lakeshore Road East	TCS	LOS		A	>	**A**	A	A		**A**	D		>	**D**					**A**
			Delay		4	>	**4**	2	2		**2**	53		>	**53**					**4**
			V/C		0.37	>		0.11	0.44			0.45		>						**0.45**
			Q		44	>		1	12			34		>						
			Stor.		-	>		10	-			-		>						
			Avail.		-	>		9	-			-		>						
	Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East	TCS	LOS	A	A	>	**A**	A	A	>	**A**	D	D	>	**D**	E	D	>	**D**	**A**
			Delay	4	4	>	**4**	3	5	>	**5**	46	46	>	**46**	56	46	>	**55**	**8**
			V/C	0.08	0.36	>		0.04	0.44	>		0.03	0.01	>		0.61	0.01	>		**0.61**
			Q	4	38	>		3	70	>		5	0	>		42	7	>		
			Stor.	16	-	>		15	-	>		30	-	>		-	-	>		
			Avail.	12	-	>		12	-	>		25	-	>		-	-	>		
	Wenonah Drive & Lakeshore Road East (NB Shared Left/Right Turn Lane)	TWSC	LOS		A	>	**A**	<	A		**A**	**F**		>	**F**					
			Delay		0	>	**0**	<	4		**1**	79		>	**79**					
			V/C		0.42	>		<	0.5			0.76		>						
			Q		0	>		<	4			37		>						
	Wenonah Drive & Lakeshore Road East (NB Left and Right Turn Lanes)	TWSC	LOS		A	>	**A**	<	A		**A**	**F**		B	**E**					
			Delay		0	>	**0**	<	4		**1**	151		13	**50**					
			V/C		0.42	>		<	0.5			0.61		0.15						
			Q		0	>		<	4			19		4						
	Elmwood Avenue South & Wanita Road	TWSC	LOS					A		>	**A**		A	>	**A**	<	A		**A**	
			Delay					9		>	**9**		0	>	**0**	<	0		**0**	
			V/C					0.01		>			0	>		<	0			
			Q					0		>			0	>		<	0			
	Cumberland Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	7	>	**7**	<	7	>	**7**	<	8	>	**8**	<	8	>	**8**	
			V/C	<	0.06	>		<	0.04	>		<	0.05	>		<	0.10	>		
			Q	<	15	>		<	13	>		<	16	>		<	18	>		
	Wenonah Drive & Wanita Road	AWSC	LOS	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	<	A	>	**A**	
			Delay	<	8	>	**8**	<	8	>	**8**	<	8	>	**8**	<	8	>	**8**	
			V/C	<	0.03	>		<	0.12	>		<	0.09	>		<	0.16	>		
			Q	<	14	>		<	13	>		<	15	>		<	13	>		
	Lakeshore Road East & Rosewood Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					B		>	**B**	
			Delay	<	2		**1**		0	>	**0**					15		>	**15**	
			V/C	<	0.41				0.46	>						0.14		>		
			Q	<	2				0	>						4		>		
	Lakeshore Road East & Woodlawn Avenue	TWSC	LOS	<	A		**A**		A	>	**A**					C		>	**C**	
			Delay	<	1		**0**		0	>	**0**					18		>	**18**	
			V/C	<	0.4				0.45	>						0.16		>		
			Q	<	1				0	>						5		>		

MOE - Measure of Effectiveness
LOS - Level of Service
Delay - Average Delay per Vehicle in Seconds
V/C - Volume to Capacity Ratio
Q - 95th Percentile Queue Length (m)
Stor. - Existing Storage (m)
Avail. - Available Storage (m)
TCS - Traffic Control Signal
TWSC - Two-Way Stop Control
AWSC - All-Way Stop Control
< / > - Shared with through movement

TABLE 5.7: 2028 AM PEAK HOUR TRAFFIC OPERATIONS (DURING CONSTRUCTION)

Analysis Period	Intersection	Control Type	MOE	Direction/Movement/Approach																
				Eastbound				Westbound				Northbound				Southbound				Overall
				Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	
AM Peak Hour	Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East	TCS	LOS	<	A	>	A	<	A	>	A	<	D	>	D	<	A	>	A	A
			Delay	<	10	>	10	<	8	>	8	<	44	>	44	<	0	>	0	9
			V/C	<	0.50	>		<	0.48	>		<	0.01	>		<	0	>		0.50
			Q	<	92	>		<	54	>		<	5	>		<	0	>		
	Cumberland Drive & Lakeshore Road East	TCS	LOS		A	>	A	A	A		A	E		>	E					A
			Delay		1	>	1	3	3		3	63		>	63					4
			V/C		0.43	>		0.10	0.38			0.44		>						0.44
			Q		11	>		4	46			34		>						
			Stor.		-	>		10	-			-		>						
			Avail.		-	>		6	-			-		>						
	Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East	TCS	LOS	A	A	>	A	A	A	>	A	D	D	>	D	E	D	>	E	B
			Delay	2	3	>	3	5	8	>	8	48	48	>	48	78	48	>	75	12
			V/C	0.07	0.48	>		0.05	0.46	>		0.06	0.04	>		0.84	0.02	>		0.84
			Q	1	21	>		3	85	>		9	10	>		83	9	>		
			Stor.	16	-	>		15	-	>		30	-	>		-	-	>		
			Avail.	15	-	>		12	-	>		21	-	>		-	-	>		
	Wenonah Drive & Lakeshore Road East (NB Shared Left/Right Turn Lane)	TWSC	LOS		A	>	A	<	A		A	F		>	F					
			Delay		0	>	0	<	7		3	344		>	344					
			V/C		0.55	>		<	0.47			1.51		>						
			Q		0	>		<	7			95		>						
	Wenonah Drive & Lakeshore Road East (NB Left and Right Turn Lanes)	TWSC	LOS		A	>	A	<	A		A	F		B	F					
			Delay		0	>	0	<	7		3	468		14	116					
			V/C		0.55	>		<	0.47			1.27		0.24						
			Q		0	>		<	7			34		8						
	Elmwood Avenue South & Wanita Road	TWSC	LOS					A		>	A		A	>	A	<	A		A	
			Delay					9		>	9		0	>	0	<	0		0	
			V/C					0.02		>			0.01	>		<	0			
			Q					1		>			0	>		<	0			
	Cumberland Drive & Wanita Road	AWSC	LOS	<	A	>	A	<	A	>	A	<	A	>	A	<	A	>	A	
			Delay	<	8	>	8	<	7	>	7	<	8	>	8	<	8	>	8	
			V/C	<	0.09	>		<	0.04	>		<	0.07	>		<	0.13	>		
			Q	<	14	>		<	12	>		<	13	>		<	16	>		
	Wenonah Drive & Wanita Road	AWSC	LOS	<	A	>	A	<	A	>	A	<	A	>	A	<	A	>	A	
			Delay	<	8	>	8	<	8	>	8	<	8	>	8	<	9	>	9	
			V/C	<	0.04	>		<	0.21	>		<	0.12	>		<	0.26	>		
			Q	<	21	>		<	70	>		<	32	>		<	18	>		
	Lakeshore Road East & Rosewood Avenue	TWSC	LOS	<	A		A		A	>	A					C		>	C	
			Delay	<	7		3		0	>	0					24		>	24	
			V/C	<	0.45				0.42	>						0.37		>		
			Q	<	9				0	>						13		>		
	Lakeshore Road East & Woodlawn Avenue	TWSC	LOS	<	A		A		A	>	A					C		>	C	
			Delay	<	1		0		0	>	0					22		>	22	
			V/C	<	0.42				0.37	>						0.23		>		
			Q	<	1				0	>						7		>		

MOE - Measure of Effectiveness
LOS - Level of Service
Delay - Average Delay per Vehicle in Seconds
V/C - Volume to Capacity Ratio
Q - 95th Percentile Queue Length (m)
Stor. - Existing Storage (m)
Avail. - Available Storage (m)
TCS - Traffic Control Signal
TWSC - Two-Way Stop Control
AWSC - All-Way Stop Control
< / > - Shared with through movement

TABLE 5.8: 2028 PM PEAK HOUR TRAFFIC OPERATIONS (DURING CONSTRUCTION)

Analysis Period	Intersection	Control Type	MOE	Direction/Movement/Approach																Overall
				Eastbound				Westbound				Northbound				Southbound				
				Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	Left	Through	Right	Approach	
PM Peak Hour	Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East	TCS	LOS	<	B	>	B	<	B	>	B	<	C	>	C	<	A	>	A	B
			Delay	<	13	>	13	<	15	>	15	<	25	>	25	<	0	>	0	14
			V/C	<	0.54	>		<	0.66	>		<	0	>		<	0	>		0.66
			Q	<	85	>		<	112	>		<	0	>		<	0	>		
	Cumberland Drive & Lakeshore Road East	TCS	LOS		A	>	A	A	A		A	D		>	D					A
			Delay		4	>	4	2	2		2	53		>	53					5
			V/C		0.40	>		0.13	0.47			0.48		>						0.48
			Q		52	>		2	13			37		>						
			Stor.		-	>		10	-			-		>						
			Avail.		-	>		8	-			-		>						
	Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East	TCS	LOS	A	A	>	A	A	A	>	A	D	D	>	D	E	D	>	E	A
			Delay	4	4	>	4	4	6	>	6	46	46	>	46	57	46	>	56	8
			V/C	0.10	0.39	>		0.05	0.48	>		0.04	0.01	>		0.63	0.01	>		0.63
			Q	4	42	>		4	82	>		6	0	>		45	7	>		
			Stor.	16	-	>		15	-	>		30	-	>		-	-	>		
			Avail.	12	-	>		11	-	>		24	-	>		-	-	>		
	Wenonah Drive & Lakeshore Road East (NB Shared Left/Right Turn Lane)	TWSC	LOS		A	>	A	<	A		A	F		>	F					
			Delay		0	>	0	<	4		2	157		>	157					
			V/C		0.46	>		<	0.54			1.02		>						
			Q		0	>		<	5			56		>						
	Wenonah Drive & Lakeshore Road East (NB Left and Right Turn Lanes)	TWSC	LOS		A	>	A	<	A		A	F		B	F					
			Delay		0	>	0	<	4		2	260		13	79					
			V/C		0.46	>		<	0.54			0.86		0.16						
			Q		0	>		<	5			26		5						
	Elmwood Avenue South & Wanita Road	TWSC	LOS					A		>	A		A	>	A	<	A		A	
			Delay					9		>	9		0	>	0	<	0		0	
			V/C					0.01		>			0	>		<	0			
			Q					0		>			0	>		<	0			
	Cumberland Drive & Wanita Road	AWSC	LOS	<	A	>	A	<	A	>	A	<	A	>	A	<	A	>	A	
			Delay	<	7	>	7	<	7	>	7	<	8	>	8	<	8	>	8	
			V/C	<	0.07	>		<	0.05	>		<	0.06	>		<	0.11	>		
			Q	<	14	>		<	13	>		<	16	>		<	17	>		
	Wenonah Drive & Wanita Road	AWSC	LOS	<	A	>	A	<	A	>	A	<	A	>	A	<	A	>	A	
			Delay	<	8	>	8	<	8	>	8	<	8	>	8	<	8	>	8	
			V/C	<	0.03	>		<	0.13	>		<	0.09	>		<	0.18	>		
			Q	<	14	>		<	14	>		<	14	>		<	14	>		
	Lakeshore Road East & Rosewood Avenue	TWSC	LOS	<	A		A		A	>	A					C		>	C	
			Delay	<	2		1		0	>	0					16		>	16	
			V/C	<	0.44				0.5	>						0.17		>		
			Q	<	2				0	>						5		>		
	Lakeshore Road East & Woodlawn Avenue	TWSC	LOS	<	A		A		A	>	A					C		>	C	
			Delay	<	2		1		0	>	0					19		>	19	
			V/C	<	0.44				0.49	>						0.18		>		
			Q	<	1				0	>						5		>		

MOE - Measure of Effectiveness
LOS - Level of Service
Delay - Average Delay per Vehicle in Seconds
V/C - Volume to Capacity Ratio
Q - 95th Percentile Queue Length (m)
Stor. - Existing Storage (m)
Avail. - Available Storage (m)
TCS - Traffic Control Signal
TWSC - Two-Way Stop Control
AWSC - All-Way Stop Control
< / > - Shared with through movement

5.3 Assessment of Impacts

Based upon operational analyses conducted in **Section 5.1** and **Section 5.2**, it is concluded the impact of the Elmwood and Hiawatha SPS works is considered minor and no road and/or operational traffic control improvements are anticipated to be required to accommodate the construction impacts.

Given the grid layout of the adjacent residential neighbourhood there are many possibilities for traffic to be rerouted. Our assessment assumed a conservative approach (i.e., errs on the high side) as a worst-case scenario.

Critical movements were identified at the intersection of Lakeshore Road East/Wenonah Drive as a result:

- The northbound shared left/right-turn movement (under a single lane approach); and
- The northbound left-turn movement (under a two-lane approach).

As previously discussed these critical movements are not considered to be critical issues and the anticipated vehicular delay (LOS F) is a common occurrence at minor road approaches operating under stop-control with a major road.

It is also noted the traffic redistribution exercise was conservative and potentially traffic volumes may be lower than forecast due to drivers selecting other alternative travel routes.

Table 5.9 provides a summary of how traffic volumes are anticipated to change due of the adjacent construction. Overall, the construction impact on the adjacent transportation network is considered minor from an operational perspective. Majority of the redistributed traffic would be less than daily traffic variations typically experienced (10%).

Even though the intersections of Wanita Road with Cumberland Drive and Wenonah Drive suggest a relatively high increase (over 100% and around 20%, respectively) in traffic during the AM and PM peak hours, this only translates to a small increase in traffic volumes. The actual magnitude of additional traffic is approximately 95 and 50 vehicles, respectively. In reality, the additional traffic can be summarized as an additional 1-2 vehicles per minute within the peak hours.

This amount of traffic variation is imperceptible and anticipated not to result in any adverse impact to the adjacent transportation network.

Therefore, no road and/or operational traffic control improvements are anticipated to be required to accommodate the construction stage.

TABLE 5.9: TRAFFIC VOLUME VARIATION

Intersection	2028 Forecast Without and With Construction % Volume Variation (Total Volume Entering Intersection)	
	AM Peak Hour	PM Peak Hour
Lakeshore Road East & Rosewood Avenue	0.3%	0.1%
Lakeshore Road East & Woodlawn Avenue	2%	1%
Lakeshore Road East & Cumberland Drive	3%	2%
Lakeshore Road East & Mohawk Avenue/Hiawatha Parkway	-0.7%	-0.9%
Lakeshore Road East & Wenonah Drive	2%	1%
Wanita Road & Cumberland Drive	110%	103%
Wanita Road & Wenonah Drive	19%	20%

6 Impact Assessment Summary

6.1 Rosemere SPS

6.1.1 Transportation Impacts

The Rosemere Sewage Pumping Station (SPS) is located approximately 80 metres east of the Stavebank Road/Rosemere Road intersection. Access to the SPS is provided via Rosemere Road, which also provides access to three residential homes.

As we understand, to accommodate the planned works Rosemere Road will be reduced to a single lane. That is, the southern most lane on Rosemere Road will be closed while the northern most lane will be maintained and open for both directions of travel. No closure or lane reductions on Stavebank Road is anticipated. Additionally, Sandham Road between Mona Road and Vesta Drive will be closed to vehicular traffic.

It is anticipated the works related to the Rosemere SPS component will result in minor impacts on the surrounding residential neighbourhoods. A total of three residential homes accessed via Rosemere Road will be impacted from the lane reduction; however, access to and from these properties will continue to be maintained. Traffic generated to and from the three residential homes is anticipated to be low and be able to operate within one travel lane without issues. Furthermore, given Rosemere Road is a discontinuous roadway, the lane reductions will not result in any impacts to the larger external network.

The full closure of Sandham Road will not affect access to residential homes along Mona Road nor Vesta Drive. Access to homes on both Mona Road and Vesta Drive will not be impacted.

It is noted at the east end of Sandham Road a pedestrian access connection is provided with the Port Credit GO Station parking lot, as we understand this pedestrian connection will be maintained during construction. It is also noted that the driveway connection with Sandham Road on the west end will not be impacted.

6.1.2 Mitigation Measures

While the associated construction with this component will not result in any major traffic impacts (i.e., closures of intersections, etc.). It is anticipated the typical associated occurrences due to construction can be expected.

That is, there will likely be a minor increase in trucks and service vehicles. It is anticipated there will be approximately eight to ten trucks per day at each shaft compound location. It is further noted that the construction activities at each shaft compound would not be occurring simultaneously.

Overall, the traffic impact is considered minor and can be managed via signage and traffic control persons when active work is occurring.

As a result of the planned works, appropriate Construction and Traffic Management Plans will be developed. This could include temporary diversions of pedestrian walkways, traffic control persons, temporary signage, etc.

6.2 Lakeshore Road Sub-Transmission Watermain and Trunk Sewer

6.2.1 Transportation Impacts

Two shaft compound locations are identified as related to the Front Street Sewage Pumping Station. They are located in the northeast quadrant of the Front Street/Lakeshore Road West intersection within Marina Park and adjacent municipal parking lot (Lot #2), and in the northeast quadrant of the Elmwood Avenue North/Lakeshore Road East intersection within the municipal parking lot (Lot #4).

The anticipated work will consist of two components, Trunk Sewer and a new Sub-Transmission Watermain tunneled along Lakeshore Road.

For both pieces of infrastructure, all associated tunnelling work will not result in any surface disturbance along Lakeshore Road.

No major traffic impacts are anticipated with the proposed construction activities, that is, intersection operations and roadway capacity along Lakeshore Road. The exception would be the adjacent works related to the Elmwood and Hiawatha SPSs which requires the closure of the north leg of the Elmwood Avenue North/Lakeshore Road East intersection.

It is anticipated the two municipal parking lots will be impacted due to the shaft compound areas (i.e., loss of parking).

It is assumed the parking provisions will be displaced and temporarily lost. Additionally, the Port Credit's Farmers Market located in the municipal parking lot (Lot #4) will be temporarily closed and would be relocated or remain closed during construction.

6.2.2 Mitigation Measures

Aforementioned, municipal parking provisions will be impacted. For the parking displaced at Marina Park, it is anticipated that parking demands can be accommodated by the nearby adjacent municipal parking lots (Municipal Lot #1 at 33 Front Street North and Municipal Lot #3 at 8 Stavebank Road), and in the adjacent Marina Park public parking lot on the southside of Lakeshore Road West. For reference, Figure 2.4 illustrated the locations of available municipal parking lots.

With construction work to occupy the northeast quadrant of the Elmwood Avenue North/Lakeshore Road East intersection within the Municipal Lot (Lot #4), parking will be lost. To mitigate the loss of parking, an alternative temporary parking lot will be provided at the Harold E. Kennedy Park while construction occurs at Municipal Lot #4. Following the completion of construction, Harold E. Kennedy Park would be restored as full public park space.

While the associated construction with this component will not result in any major traffic impacts (i.e., closures of intersections, etc). It is anticipated the typical associated occurrences due to construction can be expected. That is, there will likely be a minor increase in trucks and service vehicles. It is anticipated there will be approximately eight to ten trucks per day at each shaft compound location. It is further noted that the construction activities at each shaft compound would not be occurring simultaneously.

Overall, the traffic impact is considered minor and can be managed via signage and traffic control persons when active work is occurring.

As a result of the planned works, appropriate Construction and Traffic Management Plans will be developed. This could include temporary diversions of pedestrian walkways, traffic control persons, temporary signage, etc.

6.3 Elmwood and Hiawatha SPSs

6.3.1 Transportation Impacts

The Elmwood SPS is located approximately 50 metres west of the Elmwood Avenue South/Carlis Place intersection. The Hiawatha SPS is located at the south limits of Hiawatha Parkway, in vicinity of the Hiawatha Parkway/Cumberland Drive intersection.

The construction plans and their anticipated impacts include the following:

- An area situated south of St. Lawrence Drive, just west of the Elmwood SPS will be occupied. No impacts to St. Lawrence Drive are anticipated as the roadway will not be impacted; however, the adjacent Waterfront Trail may potentially be impacted.

  Potential closure of the access to the Waterfront Trail from Elmwood Avenue South. This will have a direct impact on active transportation users (walking and cycling) accessing Waterfront Trail from Elmwood Avenue South.

  As we understand, the intent is to maintain or provide the existing active transportation facility while construction is occurring.

- An area at the south end of Elmwood Avenue South, just south of Carlis Place. This construction zone is not anticipated to result in any direct traffic impacts to adjacent residents; however, the adjacent construction area of Elmwood Avenue South/Wanita Road will impact access for the residents south of Wanita Road.

- The intersection of Elmwood Avenue South/Wanita Road is planned to be partially closed.

  The north leg of the intersection will be fully closed (i.e., no local traffic permitted). Aforementioned, the full closure of the north leg of the intersection will impact access for the residents south of Wanita Road (i.e., minor detouring will be required).

  The east and south legs of the intersection will be reduced to a single lane to serve each travel direction for local traffic access.

- The intersection of Hiawatha Parkway/Wanita Road is planned to be fully closed. No local traffic will be permitted through this location requiring residents to utilize alternative travel routes within the neighbourhood.

- The intersection of Lakeshore Road East/Elmwood Avenue is planned to be partially closed.

  The north leg of the intersection will be fully closed (i.e., no local traffic permitted) to facilitate connection to existing maintenance holes. Traffic to and from the north leg will require minor detouring.

  - As documented in Section 5, the partial closure of Elmwood Avenue South/Wanita Road and Lakeshore Road East/Elmwood Avenue, and the full closure of Hiawatha Parkway/Wanita Road will result in traffic redistributions.

    Analyses of the additional traffic forecasts at adjacent intersections has determined there is sufficient capacity to

accommodate and no temporary mitigation measures are required. That is, the existing lane configurations and traffic control at the assessed study area intersections are determined to be sufficient.

- The area in immediate proximity surrounding the Hiawatha SPS situated at the south end of Hiawatha Parkway. The intersection of Hiawatha Parkway/Cumberland Drive is anticipated to remain open for all traffic.

  It is noted there is the Hiawatha Park located south of the Hiawatha SPS. It is anticipated that local access to the park will be maintained and provided.

6.3.2 Mitigation Measures

The assessment of detoured/redistributed traffic at adjacent intersections has determined there is sufficient capacity to accommodate diverted traffic and no temporary mitigation measures are required. That is, the existing lane configurations and traffic control at the assessed study area intersections are determined to be sufficient.

It is anticipated the typical associated occurrences due to construction can be expected. That is, there will likely be a minor increase in trucks and service vehicles. It is anticipated there will be approximately eight to ten trucks per day at each shaft compound location. It is further noted that the construction activities at each shaft compound would not be occurring simultaneously.

Overall, the traffic impact is considered minor and can be managed via signage and traffic control persons when active work is occurring.

As a result of the planned works, appropriate Construction and Traffic Management Plans will be developed. This could include temporary diversions of pedestrian walkways, traffic control persons, temporary signage, etc.

As we understand the City of Mississauga is undertaking an investigation of travel lane reduction on Lakeshore Road through a pilot study. It is recommended the lane reduction pilot study be implemented following completion of the construction works related to the Port Credit East Water and Wastewater Servicing Optimization Strategy.

6.4 Summary

The preferred construction plans for the components related to the Rosemere SPS and Lakeshore Road Sub-Transmission Watermain and Trunk Sewer indicate no intersection closures will be involved, and the required minor road section closures/lane reductions are anticipated to have minor impacts. These minor works can be accommodated without road and/or operational traffic control improvements.

The preferred construction plan related to the Elmwood and Hiawatha SPS component requires partial intersection closure of Lakeshore Road East/Elmwood Avenue, Elmwood Avenue South/Wanita Road, and a full intersection closure of Hiawatha Parkway/Wanita Road. The intersection closures require motorists to reroute and seek alternative travel routes. **Section 4.3** details the traffic redistribution due to construction and **Section 5** discusses the impacts of the intersection closures on the existing road network during the construction stage.

In summary, the anticipated construction works related to all components is considered minor and can be managed via signage and traffic control persons when active work is occurring. No intersection geometric improvements or changes to intersection traffic control have been determined to be required.

7 Conclusions and Recommendations

7.1 Conclusions

Based on the investigations carried out, it is concluded that:

- For the Port Credit East Water and Wastewater Servicing Optimization Strategy, the components include works related to the Rosemere Sewage Pumping Station (SPS), the Lakeshore Road Sub-Transmission Watermain and Trunk Sewer, and both the Elmwood and Hiawatha Sewage Pumping Stations (SPSs) as part of a Schedule C Municipal Class Environmental Assessment (EA).
- Works related to the **Rosemere SPS** component will result in minor impacts on the nearby residential homes. A total of three residential homes on Rosemere Road will be impacted by the proposed lane reduction on Rosemere Road.

  As the roadway is discontinuous, and access to the residential homes will be maintained, the overall transportation impact is considered minor, and no roadway or intersection geometric improvements are determined to be required during construction.
- Works related to the **Lakeshore Road Sub-Transmission Watermain and Trunk Sewer** component will occupy and displace parking. That is, Municipal Lot #2 and #4 will be occupied for construction activities. While parking is anticipated to be displaced, the associated tunnelling activities will not result in any surface disturbance along Lakeshore Road.

  No major traffic impacts are anticipated with the proposed construction activities, that is, intersection operations and roadway capacity along Lakeshore Road will not be impacted.

  Regarding the displaced parking spaces at Municipal Lot #2, parking demands will be accommodated by adjacent Municipal Lots #1 and #3, as well can be accommodated by the public parking lot on the south side of Lakeshore Road. Displaced parking at Municipal Lot #4, will be replaced with a temporary parking lot proposed at the Harold E. Kennedy Park site.
- Works related to the **Elmwood and Hiawatha SPSs** component will result in traffic redistribution to adjacent intersections due to the planned partial intersections closures of Lakeshore Road East/Elmwood Avenue North and Elmwood Avenue South/Wanita Road, and the full intersection closure of Hiawatha Parkway/Wanita Road.

It is noted the road closure of Elmwood Avenue North, north of Lakeshore Road, the related construction works will occur following the Lakeshore Road Sub-Transmission Watermain and Trunk Sewer construction.

- Under the assessed **2024 and 2028 horizons without SPS construction**, the study area intersections are forecast to operate at acceptable levels of service and well within capacity; and
- Under the assessed **2024 and 2028 horizons during SPS construction**, operations at the study area intersections are reported to be similar to 2024 and 2028 conditions without construction.

  The traffic variation due to traffic redistribution is found to be minor. All intersections and traffic movements are forecast to continue operating at acceptable levels of service and within capacity during all peak periods.
- No road and/or operational traffic control improvements are anticipated to be required to accommodate the construction stage.

- Overall, the construction works related to all components is considered minor and is anticipated to generate minimal disruption. As a result of the planned works, appropriate Construction and Traffic Management Plans (temporary diversions of pedestrian walkways, traffic control persons, temporary signage, etc.) will be developed.

7.2 Recommendations

Based on the findings of this study, it is recommended the City of Mississauga and Region of Peel recognize the conclusions drawn above.

Appropriate Construction Management Plans be developed for each component and implemented to ensure any potential conflicts are minimized.

Appendix A

Traffic Data

Lakeshore Road East & Elmwood Avenue

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 10:00:00

One Hour Peak
From: 8:00:00
To: 9:00:00

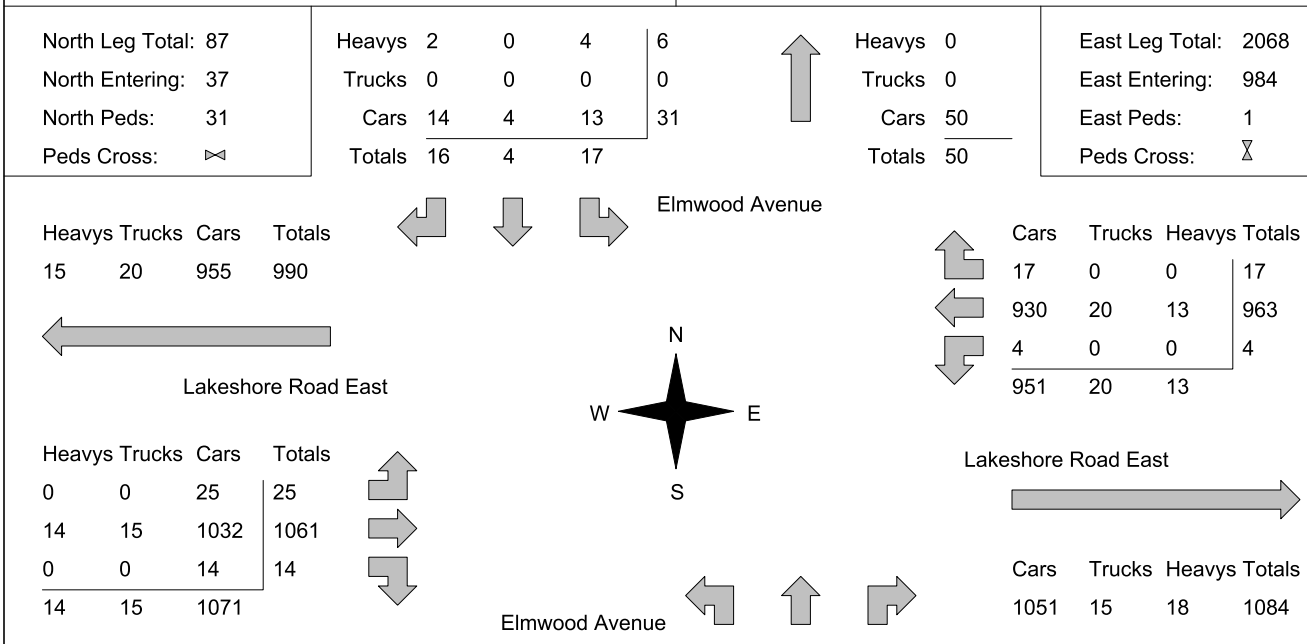
Municipality: Mississauga
Site #: 0000006701
Intersection: Lakeshore Road East & Elmwood A
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E



Comments

Lakeshore Road East & Elmwood Avenue

Mid-day Peak Diagram

Specified Period
From: 11:30:00
To: 13:30:00

One Hour Peak
From: 12:30:00
To: 13:30:00

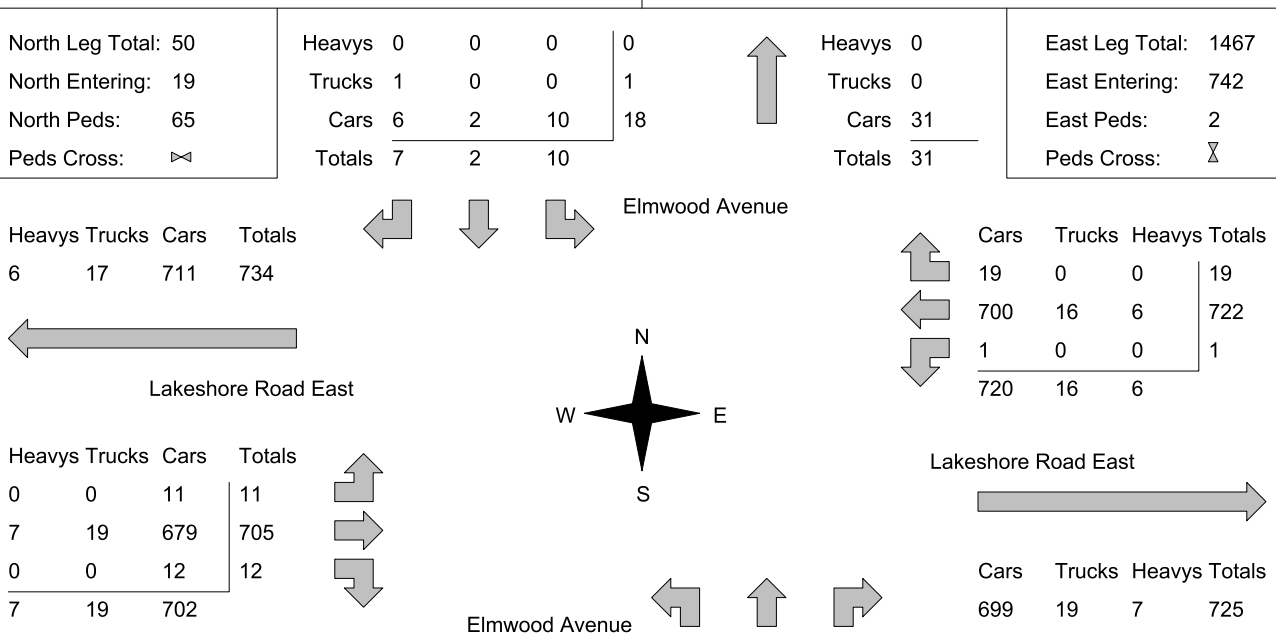
Municipality: Mississauga
Site #: 0000006701
Intersection: Lakeshore Road East & Elmwood A
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E



Comments

Lakeshore Road East & Elmwood Avenue

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 16:45:00
To: 17:45:00

Municipality: Mississauga
Site #: 0000006701
Intersection: Lakeshore Road East & Elmwood A
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E

North Leg Total:	62
North Entering:	23
North Peds:	58
Peds Cross:	⋈

Heavys	0	0	0	0
Trucks	0	0	0	0
Cars	15	1	7	23
Totals	15	1	7	

Heavys	0
Trucks	0
Cars	39
Totals	39

East Leg Total:	2126
East Entering:	1157
East Peds:	1
Peds Cross:	⧖

Elmwood Avenue

Heavys	Trucks	Cars	Totals
6	6	1142	1154

Lakeshore Road East

Cars	Trucks	Heavys	Totals
22	0	0	22
1121	6	6	1133
2	0	0	2
1145	6	6	

N
W E
S

Heavys	Trucks	Cars	Totals
0	0	15	15
4	6	945	955
0	0	12	12
4	6	972	

Lakeshore Road East

Cars	Trucks	Heavys	Totals
959	6	4	969

Elmwood Avenue

Peds Cross:	⧖
West Peds:	38
West Entering:	982
West Leg Total:	2136

Cars	15
Trucks	0
Heavys	0
Totals	15

Cars	6	2	7	15
Trucks	0	0	0	0
Heavys	0	0	0	0
Totals	6	2	7	

Peds Cross:	⋈
South Peds:	31
South Entering:	15
South Leg Total:	30

Comments

Lakeshore Road East & Elmwood Avenue

Total Count Diagram

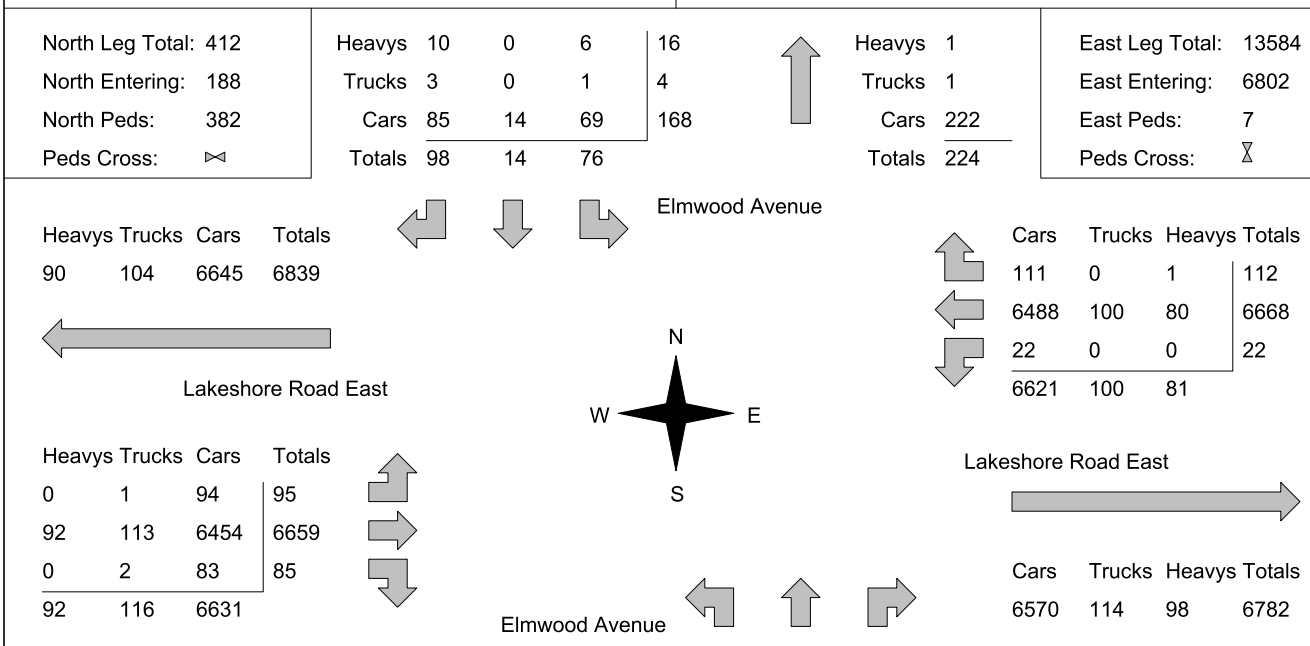
Municipality: Mississauga
Site #: 0000006701
Intersection: Lakeshore Road East & Elmwood A
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E



Comments

Lakeshore Road East & Elmwood Avenue
Traffic Count Summary

Intersection: Lakeshore Road East & Elmwood A | **Count Date:** 8-Nov-2022 | **Municipality:** Mississauga

North Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	5	1	5	11	24	24
9:00:00	17	4	16	37	31	62
10:00:00	5	0	14	19	28	34
12:00:00	3	1	2	6	27	13
13:00:00	13	2	9	24	86	37
15:00:00	3	0	1	4	26	14
16:00:00	16	4	24	44	46	67
17:00:00	7	1	16	24	56	38
18:00:00	7	1	11	19	58	36
Totals:	76	14	98	188	382	325

South Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	10	0	3	13	6
9:00:00	11	8	6	25	42
10:00:00	12	0	3	15	19
12:00:00	5	1	1	7	20
13:00:00	3	1	9	13	60
15:00:00	5	0	5	10	27
16:00:00	12	4	7	23	87
17:00:00	8	1	5	14	39
18:00:00	7	2	8	17	39
Totals:	73	17	47	137	339

East Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	1	500	5	506	0	1294
9:00:00	4	963	17	984	1	2084
10:00:00	4	573	3	580	1	1341
12:00:00	0	330	5	335	0	684
13:00:00	0	718	15	733	1	1449
15:00:00	1	358	11	370	1	718
16:00:00	6	1047	16	1069	1	1915
17:00:00	4	1097	19	1120	1	2089
18:00:00	2	1082	21	1105	1	2067
Totals:	22	6668	112	6802	7	13641

West Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	2	783	3	788	8
9:00:00	25	1061	14	1100	53
10:00:00	7	746	8	761	26
12:00:00	8	336	5	349	10
13:00:00	11	689	16	716	37
15:00:00	5	338	5	348	16
16:00:00	12	823	11	846	93
17:00:00	11	946	12	969	43
18:00:00	14	937	11	962	37
Totals:	95	6659	85	6839	323

Calculated Values for Traffic Crossing Major Street

Hours Ending:	8:00	9:00	10:00	13:00	15:00	16:00	17:00	18:00
Crossing Values:	24	90	44	56	25	126	60	54

Rosewood Avenue & Lakeshore Road E

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 10:00:00

One Hour Peak
From: 8:00:00
To: 9:00:00

Municipality: Mississauga
Site #: 0000002001
Intersection: Lakeshore Road E & Rosewood Ave
TFR File #: 1
Count date: 5-Apr-2023

Weather conditions:
Rain / Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Lakeshore Road E runs W/E

North Leg Total: 203
North Entering: 73
North Peds: 40
Peds Cross: ⋈

Heavys	2	0	2
Trucks	1	0	1
Cars	66	4	70
Totals	69	4	

Heavys	2
Trucks	0
Cars	128
Totals	130

East Leg Total: 1829
East Entering: 884
East Peds: 4
Peds Cross: ⧖

Rosewood Avenue

Heavys	Trucks	Cars	Totals
19	13	908	940

Lakeshore Road E

Heavys	Trucks	Cars	Totals
2	0	115	117
16	13	912	941
18	13	1027	

N
W E
S

Cars	Trucks	Heavys	Totals
13	0	0	13
842	12	17	871
855	12	17	

Lakeshore Road E

Cars	Trucks	Heavys	Totals
916	13	16	945

Peds Cross: ⧖
West Peds: 0
West Entering: 1058
West Leg Total: 1998

Comments

Rosewood Avenue & Lakeshore Road E

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 16:45:00
To: 17:45:00

Municipality: Mississauga
Site #: 0000002001
Intersection: Lakeshore Road E & Rosewood Ave
TFR File #: 1
Count date: 5-Apr-2023

Weather conditions:
Rain / Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Lakeshore Road E runs W/E

North Leg Total: 85
North Entering: 40
North Peds: 34
Peds Cross: ⋈

Heavys	0	0	0
Trucks	0	0	0
Cars	35	5	40
Totals	35	5	

Heavys	0
Trucks	1
Cars	44
Totals	45

East Leg Total: 2078
East Entering: 1104
East Peds: 4
Peds Cross: ⧖

Rosewood Avenue

Heavys	Trucks	Cars	Totals
5	2	1112	1119

Lakeshore Road E

Heavys	Trucks	Cars	Totals
0	1	24	25
5	12	952	969
5	13	976	

N
W E
S

Cars	Trucks	Heavys	Totals
20	0	0	20
1077	2	5	1084
1097	2	5	

Lakeshore Road E

Cars	Trucks	Heavys	Totals
957	12	5	974

Peds Cross: ⧖
West Peds: 1
West Entering: 994
West Leg Total: 2113

Comments

Rosewood Avenue & Lakeshore Road E

Total Count Diagram

Municipality: Mississauga
Site #: 0000002001
Intersection: Lakeshore Road E & Rosewood Av
TFR File #: 1
Count date: 5-Apr-2023

Weather conditions:
Rain / Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Lakeshore Road E runs W/E

North Leg Total: 635
North Entering: 287
North Peds: 218
Peds Cross: ⋈

Heavys	3	1	4
Trucks	1	0	1
Cars	254	28	282
Totals	258	29	

Heavys	3
Trucks	2
Cars	343
Totals	348

East Leg Total: 10326
East Entering: 5320
East Peds: 13
Peds Cross: ⧖

Rosewood Avenue

Heavys	Trucks	Cars	Totals
77	61	5356	5494

Cars	Trucks	Heavys	Totals
84	0	0	84
5102	60	74	5236
5186	60	74	

Lakeshore Road E

N
W E
S

Heavys	Trucks	Cars	Totals
3	2	259	264
67	75	4835	4977
70	77	5094	

Lakeshore Road E

Cars	Trucks	Heavys	Totals
4863	75	68	5006

Peds Cross: ⧖
West Peds: 3
West Entering: 5241
West Leg Total: 10735

Comments

Rosewood Avenue & Lakeshore Road E
Traffic Count Summary

Intersection: Lakeshore Road E & Rosewood Av | **Count Date:** 5-Apr-2023 | **Municipality:** Mississauga

North Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	2	0	19	21	35	21
9:00:00	4	0	69	73	40	73
10:00:00	2	0	33	35	46	35
15:00:00	0	0	0	0	0	0
16:00:00	11	0	71	82	32	82
17:00:00	7	0	37	44	29	44
18:00:00	3	0	29	32	36	32
Totals:	29	0	258	287	218	287

South Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	0	0	0	0	0
9:00:00	0	0	0	0	0
10:00:00	0	0	0	0	0
15:00:00	0	0	0	0	0
16:00:00	0	0	0	0	0
17:00:00	0	0	0	0	0
18:00:00	0	0	0	0	0
Totals:	0	0	0	0	0

East Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	0	471	3	474	4	1171
9:00:00	0	871	13	884	4	1942
10:00:00	0	634	9	643	0	1398
15:00:00	0	0	0	0	0	0
16:00:00	0	1159	20	1179	1	2004
17:00:00	0	1003	22	1025	2	1970
18:00:00	0	1098	17	1115	2	2076
Totals:	0	5236	84	5320	13	10561

West Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	10	687	0	697	1
9:00:00	117	941	0	1058	0
10:00:00	27	728	0	755	1
15:00:00	0	0	0	0	0
16:00:00	49	776	0	825	0
17:00:00	37	908	0	945	0
18:00:00	24	937	0	961	1
Totals:	264	4977	0	5241	3

Calculated Values for Traffic Crossing Major Street

Hours Ending:	7:00	8:00	9:00	10:00	15:00	16:00	17:00	18:00
Crossing Values:	0	7	8	3	0	12	9	6

Lakeshore Road East & Cumberland Drive

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 10:00:00

One Hour Peak
From: 8:00:00
To: 9:00:00

Municipality: Mississauga
Site #: 0000006702
Intersection: Lakeshore Road East & Cumberlan
TFR File #: 1
Count date: 8-Nov-2022

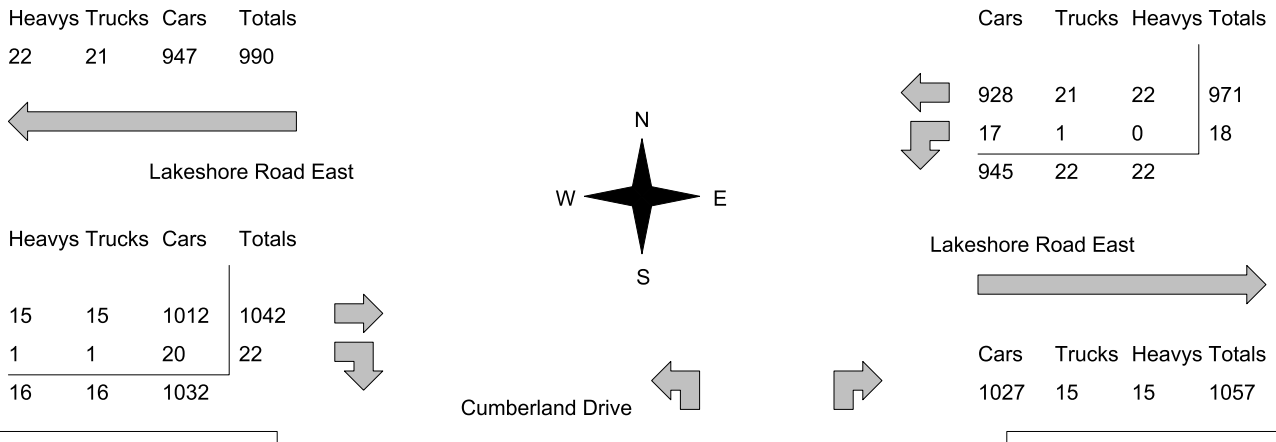
Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E

East Leg Total: 2046
East Entering: 989
East Peds: 18
Peds Cross: ⧖



Peds Cross: ⧖
West Peds: 7
West Entering: 1064
West Leg Total: 2054

Cars 37
Trucks 2
Heavys 1
Totals 40

Cars 19 15 34
Trucks 0 0 0
Heavys 0 0 0
Totals 19 15

Peds Cross: ⋈
South Peds: 17
South Entering: 34
South Leg Total: 74

Comments

Lakeshore Road East & Cumberland Drive

Mid-day Peak Diagram

Specified Period
From: 11:30:00
To: 13:30:00

One Hour Peak
From: 12:15:00
To: 13:15:00

Municipality: Mississauga
Site #: 0000006702
Intersection: Lakeshore Road East & Cumberlan
TFR File #: 1
Count date: 8-Nov-2022

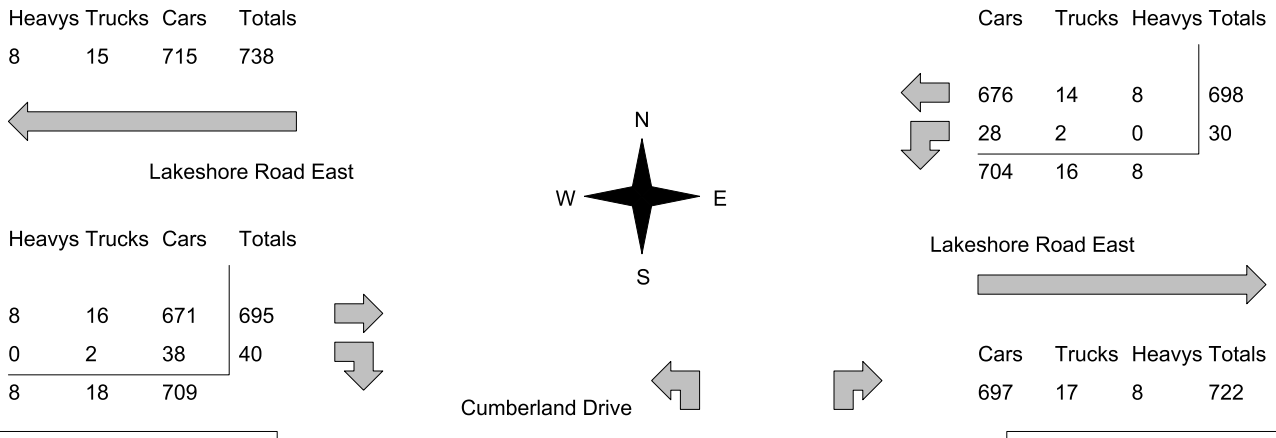
Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E

East Leg Total: 1450
East Entering: 728
East Peds: 33
Peds Cross: ⧖



Peds Cross: ⧖
West Peds: 8
West Entering: 735
West Leg Total: 1473

Cars 66
Trucks 4
Heavys 0
Totals 70

Cars 39 26 65
Trucks 1 1 2
Heavys 0 0 0
Totals 40 27

Peds Cross: ⋈
South Peds: 25
South Entering: 67
South Leg Total: 137

Comments

Lakeshore Road East & Cumberland Drive

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 16:30:00
To: 17:30:00

Municipality: Mississauga
Site #: 0000006702
Intersection: Lakeshore Road East & Cumberlan
TFR File #: 1
Count date: 8-Nov-2022

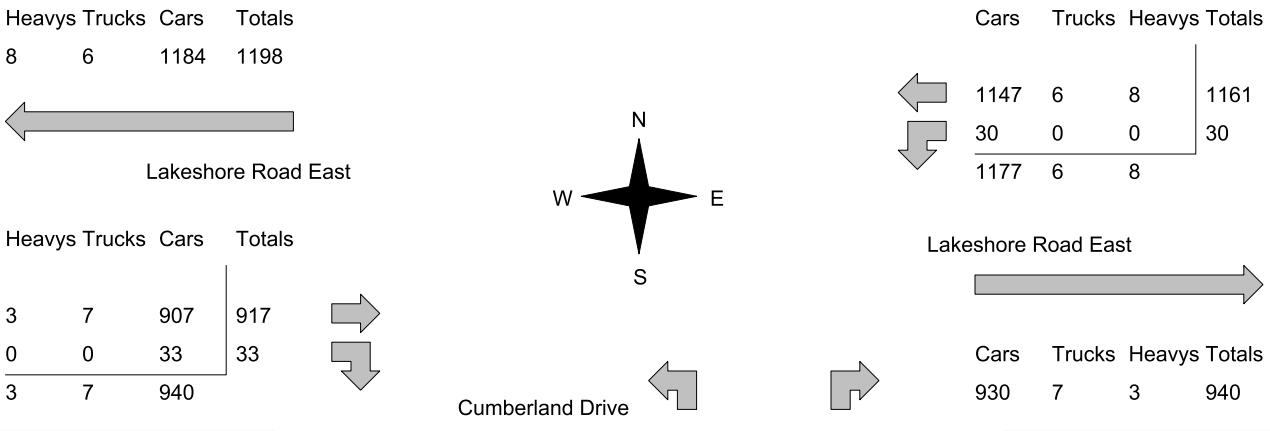
Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E

East Leg Total: 2131
East Entering: 1191
East Peds: 11
Peds Cross: ⧖



Peds Cross: ⧖
West Peds: 8
West Entering: 950
West Leg Total: 2148

Cars 63
Trucks 0
Heavys 0
Totals 63

Cars 37 23 60
Trucks 0 0 0
Heavys 0 0 0
Totals 37 23

Peds Cross: ⋈
South Peds: 15
South Entering: 60
South Leg Total: 123

Comments

Lakeshore Road East & Cumberland Drive

Total Count Diagram

Municipality: Mississauga
Site #: 0000006702
Intersection: Lakeshore Road East & Cumberlan
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E

East Leg Total: 13348
East Entering: 6744
East Peds: 133
Peds Cross:

Heavys	Trucks	Cars	Totals
87	101	6602	6790

Lakeshore Road East

Heavys	Trucks	Cars	Totals
96	113	6241	6450
2	8	230	240
98	121	6471	

	Cars	Trucks	Heavys	Totals
	6383	95	85	6563
	176	5	0	181
	6559	100	85	

N
W E
S

Lakeshore Road East

Cars	Trucks	Heavys	Totals
6390	118	96	6604

Cumberland Drive

Peds Cross:
West Peds: 77
West Entering: 6690
West Leg Total: 13480

Cars	406
Trucks	13
Heavys	2
Totals	421

Cars	219	149	368
Trucks	6	5	11
Heavys	2	0	2
Totals	227	154	

Peds Cross:
South Peds: 148
South Entering: 381
South Leg Total: 802

Comments

Lakeshore Road East & Cumberland Drive
Traffic Count Summary

Intersection: Lakeshore Road East & Cumberlar | **Count Date:** 8-Nov-2022 | **Municipality:** Mississauga

North Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	0	0	0	0	0	22
9:00:00	0	0	0	0	0	34
10:00:00	0	0	0	0	0	35
12:00:00	0	0	0	0	0	22
13:00:00	0	0	0	0	0	74
15:00:00	0	0	0	0	0	25
16:00:00	0	0	0	0	0	68
17:00:00	0	0	0	0	0	61
18:00:00	0	0	0	0	0	40
Totals:	0	0	0	0	0	381

South Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	13	0	9	22	2
9:00:00	19	0	15	34	17
10:00:00	20	0	15	35	16
12:00:00	12	0	10	22	18
13:00:00	42	0	32	74	23
15:00:00	15	0	10	25	13
16:00:00	42	0	26	68	28
17:00:00	38	0	23	61	14
18:00:00	26	0	14	40	17
Totals:	227	0	154	381	148

East Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	4	455	0	459	8	1255
9:00:00	18	971	0	989	18	2053
10:00:00	22	553	0	575	6	1319
12:00:00	11	324	0	335	8	653
13:00:00	28	685	0	713	35	1438
15:00:00	11	349	0	360	6	690
16:00:00	32	1017	0	1049	25	1902
17:00:00	35	1102	0	1137	13	2046
18:00:00	20	1107	0	1127	14	2078
Totals:	181	6563	0	6744	133	13434

West Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	0	789	7	796	7
9:00:00	0	1042	22	1064	7
10:00:00	0	721	23	744	5
12:00:00	0	301	17	318	3
13:00:00	0	685	40	725	16
15:00:00	0	318	12	330	3
16:00:00	0	814	39	853	15
17:00:00	0	866	43	909	10
18:00:00	0	914	37	951	11
Totals:	0	6450	240	6690	77

Calculated Values for Traffic Crossing Major Street

Hours Ending:	8:00	9:00	10:00	13:00	15:00	16:00	17:00	18:00
Crossing Values:	28	44	31	93	24	82	61	51

Woodlawn Avenue & Lakeshore Road E

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 10:00:00

One Hour Peak
From: 8:00:00
To: 9:00:00

Municipality: Mississauga
Site #: 0000002002
Intersection: Lakeshore Road E & Woodlawn Ave
TFR File #: 1
Count date: 5-Apr-2023

Weather conditions:
Rain / Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Lakeshore Road E runs W/E

North Leg Total: 50
North Entering: 31
North Peds: 40
Peds Cross: ⋈

Heavys	0	0	0
Trucks	0	0	0
Cars	25	6	31
Totals	25	6	

Heavys	2
Trucks	1
Cars	16
Totals	19

East Leg Total: 1745
East Entering: 815
East Peds: 1
Peds Cross: ⧖

Woodlawn Avenue

Heavys	Trucks	Cars	Totals
16	15	802	833

Lakeshore Road E

Heavys	Trucks	Cars	Totals
1	0	11	12
15	14	895	924
16	14	906	

N
W E
S

Cars	Trucks	Heavys	Totals
5	1	1	7
777	15	16	808
782	16	17	

Lakeshore Road E

Cars	Trucks	Heavys	Totals
901	14	15	930

Peds Cross: ⧖
West Peds: 0
West Entering: 936
West Leg Total: 1769

Comments

Woodlawn Avenue & Lakeshore Road E

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 16:45:00
To: 17:45:00

Municipality: Mississauga
Site #: 0000002002
Intersection: Lakeshore Road E & Woodlawn Ave
TFR File #: 1
Count date: 5-Apr-2023

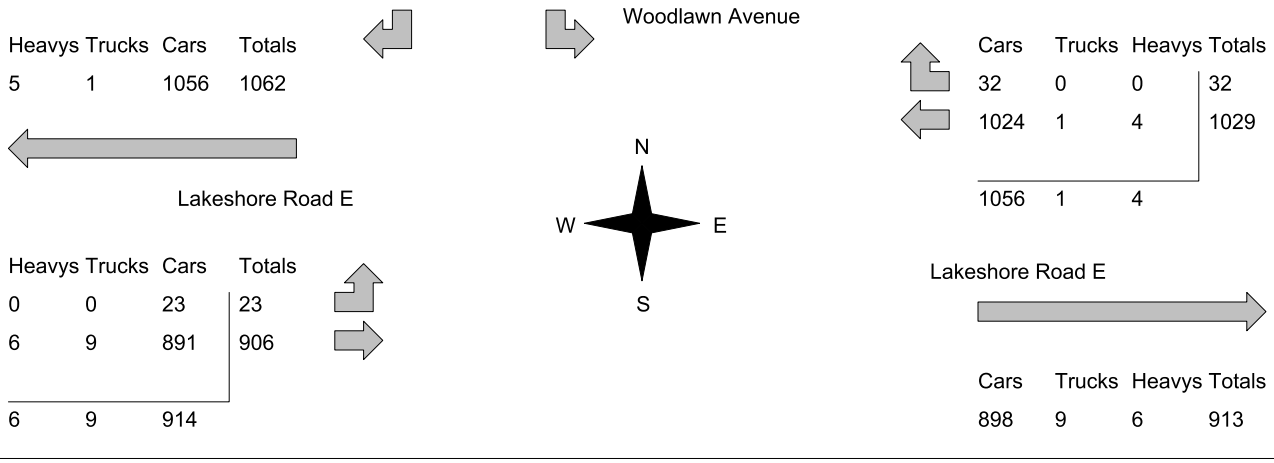
Weather conditions:
Rain / Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Lakeshore Road E runs W/E

North Leg Total:	95			
North Entering:	40			
North Peds:	25			
Peds Cross:	⋈			
Heavys	1	0	1	
Trucks	0	0	0	
Cars	32	7	39	
Totals	33	7		
Heavys	0			
Trucks	0			
Cars	55			
Totals	55			
East Leg Total:	1974			
East Entering:	1061			
East Peds:	2			
Peds Cross:	⧖			



Peds Cross:	⧖
West Peds:	4
West Entering:	929
West Leg Total:	1991

Comments

Woodlawn Avenue & Lakeshore Road E

Total Count Diagram

Municipality: Mississauga
Site #: 0000002002
Intersection: Lakeshore Road E & Woodlawn Ave
TFR File #: 1
Count date: 5-Apr-2023

Weather conditions:
Rain / Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Lakeshore Road E runs W/E

North Leg Total: 393
North Entering: 179
North Peds: 148
Peds Cross: ⋈

Heavys	2	0	2
Trucks	1	0	1
Cars	144	32	176
Totals	147	32	

Heavys	3
Trucks	2
Cars	209
Totals	214

East Leg Total: 9780
East Entering: 5082
East Peds: 4
Peds Cross: ⧖

Woodlawn Avenue

Heavys	Trucks	Cars	Totals
71	67	4963	5101

Lakeshore Road E

Heavys	Trucks	Cars	Totals
2	0	84	86
71	78	4517	4666
73	78	4601	

N
W E
S

Cars	Trucks	Heavys	Totals
125	2	1	128
4819	66	69	4954
4944	68	70	

Lakeshore Road E

Cars	Trucks	Heavys	Totals
4549	78	71	4698

Peds Cross: ⧖
West Peds: 19
West Entering: 4752
West Leg Total: 9853

Comments

Woodlawn Avenue & Lakeshore Road E
Traffic Count Summary

Intersection: Lakeshore Road E & Woodlawn Av | **Count Date:** 5-Apr-2023 | **Municipality:** Mississauga

North Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	2	0	3	5	21	5
9:00:00	6	0	25	31	40	31
10:00:00	6	0	8	14	25	14
15:00:00	0	0	0	0	0	0
16:00:00	5	0	47	52	18	52
17:00:00	7	0	31	38	20	38
18:00:00	6	0	33	39	24	39
Totals:	32	0	147	179	148	179

South Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	0	0	0	0	0
9:00:00	0	0	0	0	0
10:00:00	0	0	0	0	0
15:00:00	0	0	0	0	0
16:00:00	0	0	0	0	0
17:00:00	0	0	0	0	0
18:00:00	0	0	0	0	0
Totals:	0	0	0	0	0

East Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	0	434	3	437	1	1072
9:00:00	0	808	7	815	1	1751
10:00:00	0	614	18	632	0	1343
15:00:00	0	0	0	0	0	0
16:00:00	0	1059	38	1097	0	1835
17:00:00	0	984	33	1017	1	1855
18:00:00	0	1055	29	1084	1	1978
Totals:	0	4954	128	5082	4	9834

West Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	5	630	0	635	2
9:00:00	12	924	0	936	0
10:00:00	12	699	0	711	4
15:00:00	0	0	0	0	0
16:00:00	18	720	0	738	2
17:00:00	18	820	0	838	6
18:00:00	21	873	0	894	5
Totals:	86	4666	0	4752	19

Calculated Values for Traffic Crossing Major Street

Hours Ending:	7:00	8:00	9:00	10:00	15:00	16:00	17:00	18:00
Crossing Values:	0	5	7	10	0	7	14	12

Lakeshore Road East & Hiawatha Parkway

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 10:00:00

One Hour Peak
From: 8:00:00
To: 9:00:00

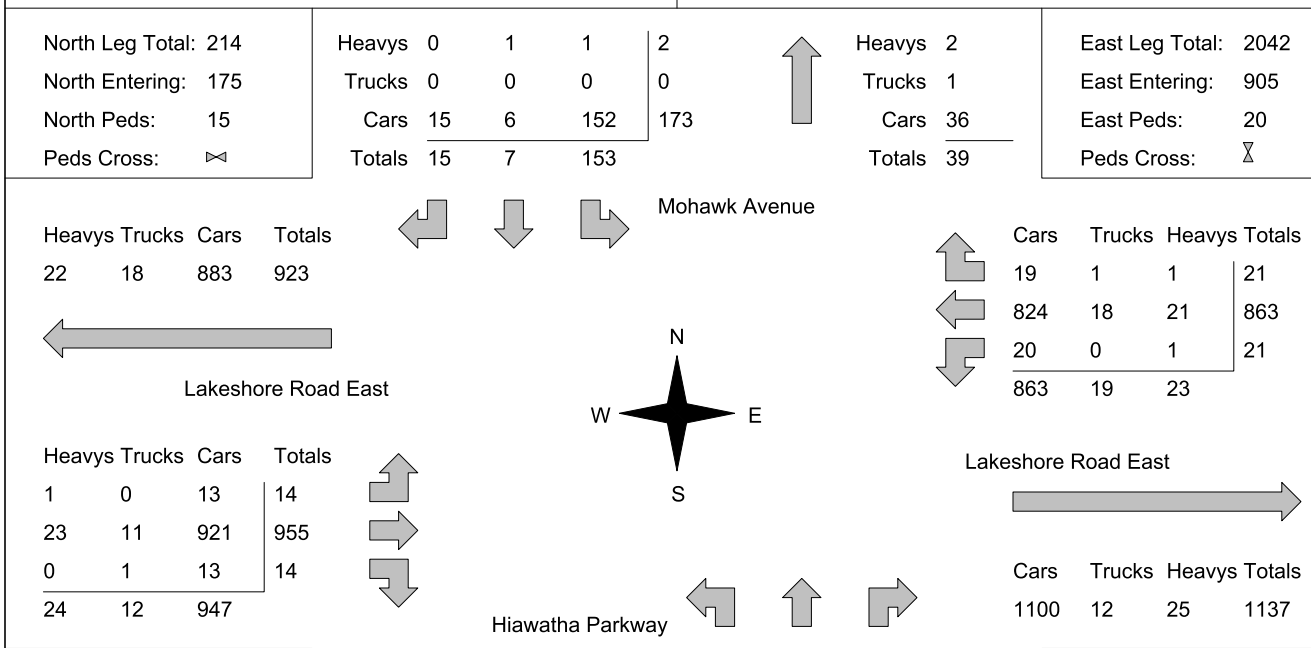
Municipality: Mississauga
Site #: 0000006703
Intersection: Lakeshore Road East & Hiawatha P
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E



Comments

Lakeshore Road East & Hiawatha Parkway

Mid-day Peak Diagram

Specified Period
From: 11:30:00
To: 13:30:00

One Hour Peak
From: 12:30:00
To: 13:30:00

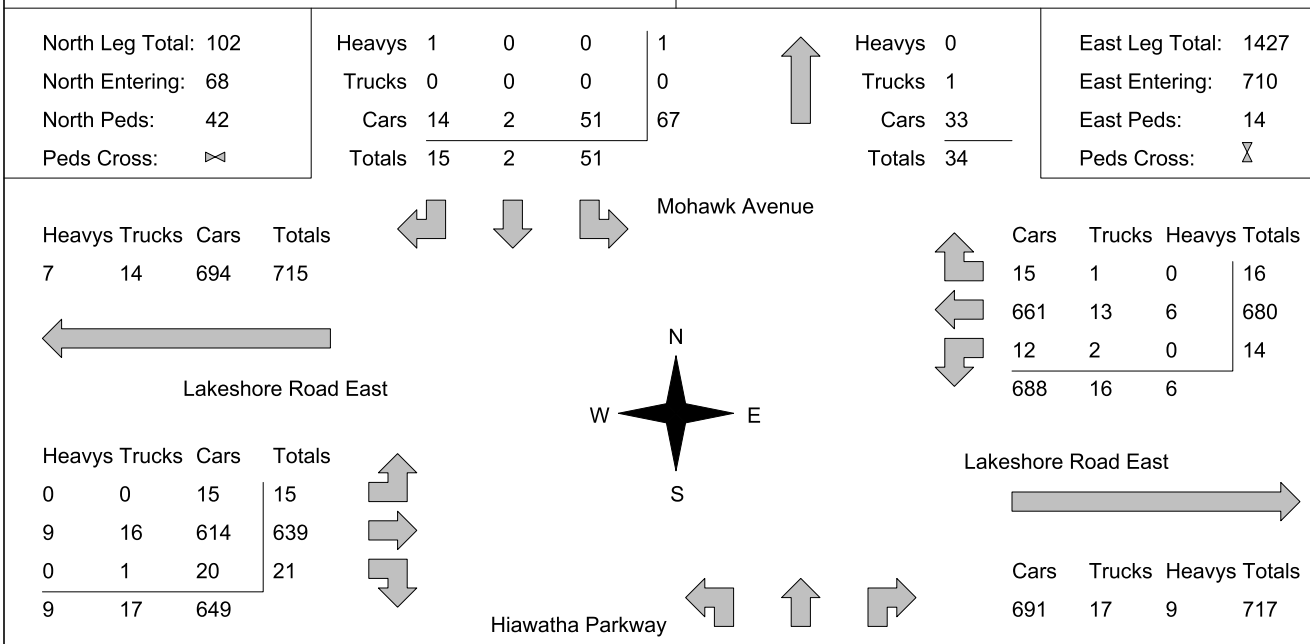
Municipality: Mississauga
Site #: 0000006703
Intersection: Lakeshore Road East & Hiawatha P
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E



Comments

Lakeshore Road East & Hiawatha Parkway

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 16:30:00
To: 17:30:00

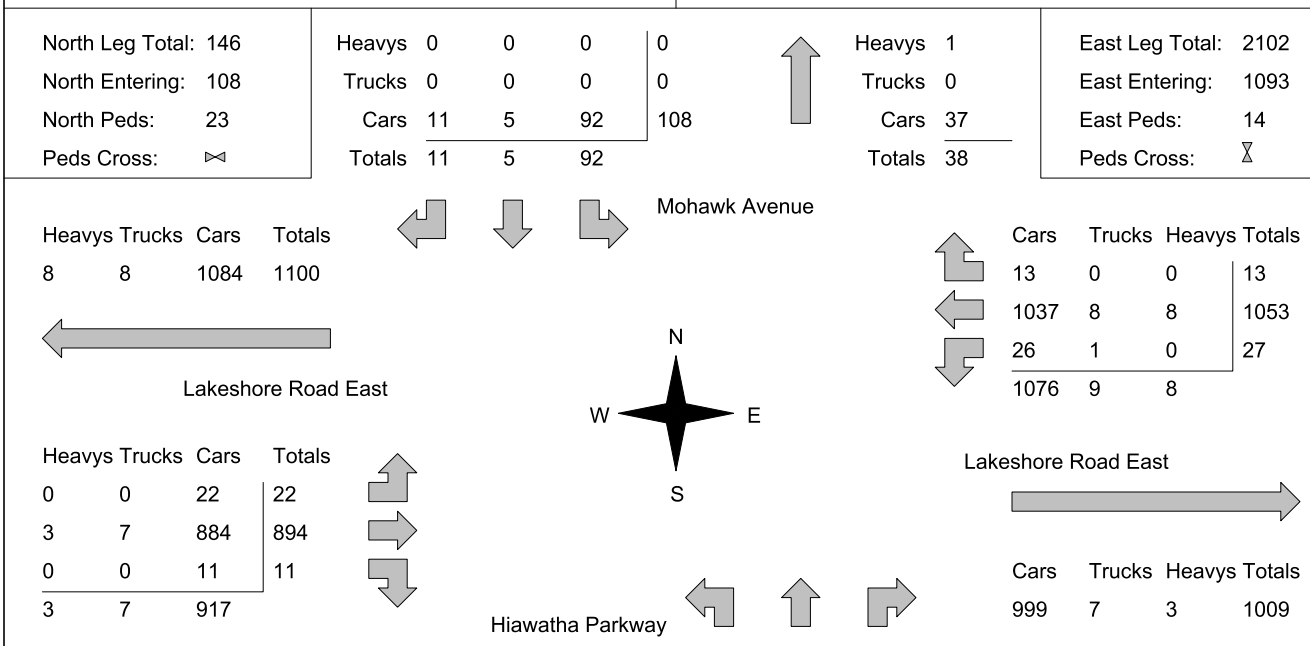
Municipality: Mississauga
Site #: 0000006703
Intersection: Lakeshore Road East & Hiawatha P
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E



Comments

Lakeshore Road East & Hiawatha Parkway

Total Count Diagram

Municipality: Mississauga
Site #: 0000006703
Intersection: Lakeshore Road East & Hiawatha P
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E

North Leg Total:	988			
North Entering:	740			
North Peds:	198			
Peds Cross:	⋈			

Heavys	3	1	12	16
Trucks	0	0	3	3
Cars	90	34	597	721
Totals	93	35	612	

Heavys	5	
Trucks	5	
Cars	238	
Totals	248	

East Leg Total:	13346
East Entering:	6321
East Peds:	185
Peds Cross:	⧖

Mohawk Avenue

Heavys	Trucks	Cars	Totals
87	88	6214	6389

Lakeshore Road East

Cars	Trucks	Heavys	Totals
111	4	2	117
5884	85	81	6050
148	5	1	154
6143	94	84	

N
W E
S

Heavys	Trucks	Cars	Totals
2	1	106	109
103	103	6002	6208
2	4	117	123
107	108	6225	

Lakeshore Road East

Cars	Trucks	Heavys	Totals
6797	111	117	7025

Hiawatha Parkway

Peds Cross:	⧖			
West Peds:	171			
West Entering:	6440			
West Leg Total:	12829			

Cars	299			
Trucks	9			
Heavys	4			
Totals	312			

Cars	240	21	198	459
Trucks	3	0	5	8
Heavys	3	1	2	6
Totals	246	22	205	

Peds Cross:	⋈
South Peds:	140
South Entering:	473
South Leg Total:	785

Comments

Lakeshore Road East & Hiawatha Parkway
Traffic Count Summary

Intersection: Lakeshore Road East & Hiawatha | **Count Date:** 8-Nov-2022 | **Municipality:** Mississauga

North Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	22	0	6	28	14	64
9:00:00	153	7	15	175	15	253
10:00:00	37	5	5	47	19	102
12:00:00	15	4	4	23	29	50
13:00:00	43	0	13	56	46	117
15:00:00	26	2	7	35	18	61
16:00:00	159	9	16	184	10	258
17:00:00	79	4	12	95	14	162
18:00:00	78	4	15	97	33	146
Totals:	612	35	93	740	198	1213

South Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	19	0	17	36	7
9:00:00	45	4	29	78	11
10:00:00	26	1	28	55	14
12:00:00	11	1	15	27	14
13:00:00	21	2	38	61	34
15:00:00	14	3	9	26	6
16:00:00	47	3	24	74	21
17:00:00	33	5	29	67	17
18:00:00	30	3	16	49	16
Totals:	246	22	205	473	140

East Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	6	451	7	464	6	1270
9:00:00	21	863	21	905	20	1888
10:00:00	19	520	14	553	22	1280
12:00:00	10	293	12	315	22	628
13:00:00	12	660	10	682	41	1360
15:00:00	9	332	9	350	7	675
16:00:00	25	918	18	961	22	1766
17:00:00	23	1016	13	1052	15	1922
18:00:00	29	997	13	1039	30	1972
Totals:	154	6050	117	6321	185	12761

West Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	7	791	8	806	0
9:00:00	14	955	14	983	10
10:00:00	9	707	11	727	4
12:00:00	7	299	7	313	27
13:00:00	11	640	27	678	86
15:00:00	7	314	4	325	2
16:00:00	21	758	26	805	26
17:00:00	16	840	14	870	7
18:00:00	17	904	12	933	9
Totals:	109	6208	123	6440	171

Calculated Values for Traffic Crossing Major Street

Hours Ending:	8:00	9:00	10:00	13:00	15:00	16:00	17:00	18:00
Crossing Values:	47	235	94	193	52	263	139	151

Lakeshore Road East & Wenonah Drive

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 10:00:00

One Hour Peak
From: 8:00:00
To: 9:00:00

Municipality: Mississauga
Site #: 0000006704
Intersection: Lakeshore Road East & Wenonah D
TFR File #: 1
Count date: 8-Nov-2022

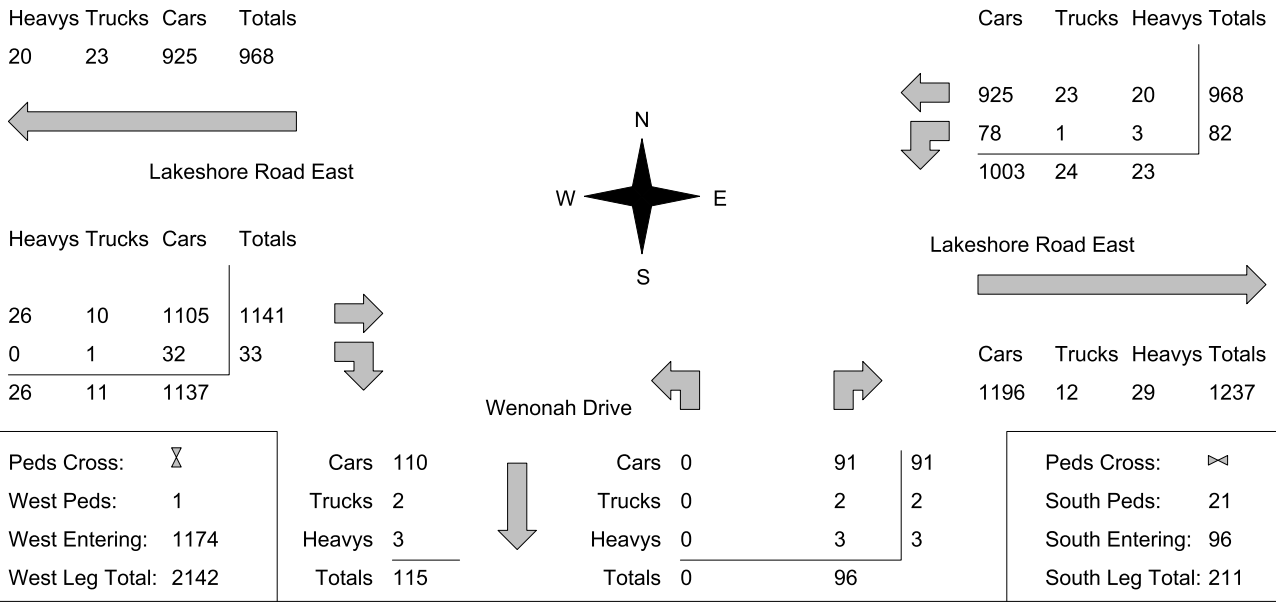
Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E

East Leg Total: 2287
East Entering: 1050
East Peds: 11
Peds Cross: ⧖



Peds Cross: ⧖
West Peds: 1
West Entering: 1174
West Leg Total: 2142

Cars 110
Trucks 2
Heavys 3
Totals 115

Cars 0 91 91
Trucks 0 2 2
Heavys 0 3 3
Totals 0 96

Peds Cross: ⋈
South Peds: 21
South Entering: 96
South Leg Total: 211

Comments

Lakeshore Road East & Wenonah Drive

Mid-day Peak Diagram

Specified Period
From: 11:30:00
To: 13:30:00

One Hour Peak
From: 12:15:00
To: 13:15:00

Municipality: Mississauga
Site #: 0000006704
Intersection: Lakeshore Road East & Wenonah D
TFR File #: 1
Count date: 8-Nov-2022

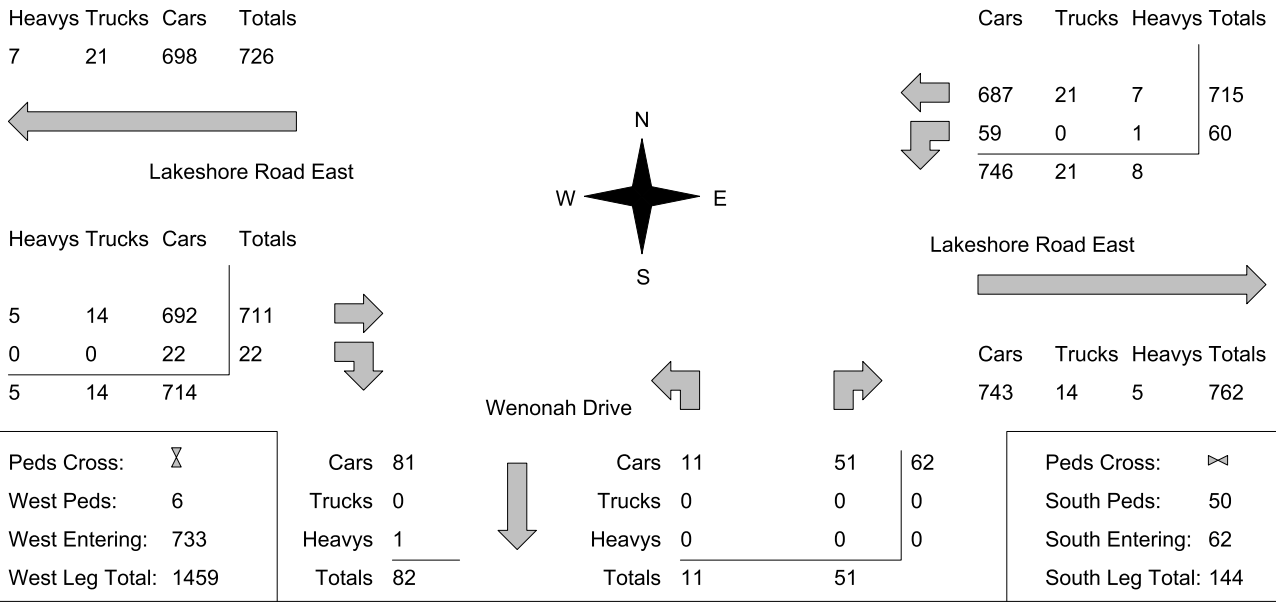
Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E

East Leg Total: 1537
East Entering: 775
East Peds: 5
Peds Cross: ⧖



Peds Cross: ⧖
West Peds: 6
West Entering: 733
West Leg Total: 1459

Cars 81
Trucks 0
Heavys 1
Totals 82

Cars 11 51 62
Trucks 0 0 0
Heavys 0 0 0
Totals 11 51

Peds Cross: ⋈
South Peds: 50
South Entering: 62
South Leg Total: 144

Comments

Lakeshore Road East & Wenonah Drive

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 16:15:00
To: 17:15:00

Municipality: Mississauga
Site #: 0000006704
Intersection: Lakeshore Road East & Wenonah D
TFR File #: 1
Count date: 8-Nov-2022

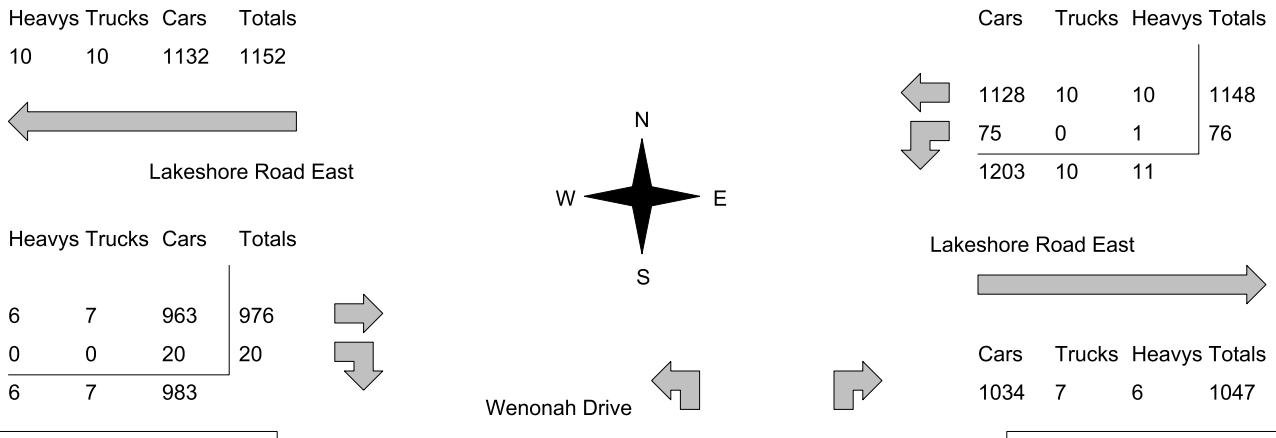
Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E

East Leg Total: 2271
East Entering: 1224
East Peds: 1
Peds Cross:



Peds Cross:
West Peds: 9
West Entering: 996
West Leg Total: 2148

Cars 95
Trucks 0
Heavys 1
Totals 96

Cars 4 71 75
Trucks 0 0 0
Heavys 0 0 0
Totals 4 71

Peds Cross:
South Peds: 35
South Entering: 75
South Leg Total: 171

Comments

Lakeshore Road East & Wenonah Drive

Total Count Diagram

Municipality: Mississauga
Site #: 0000006704
Intersection: Lakeshore Road East & Wenonah D
TFR File #: 1
Count date: 8-Nov-2022

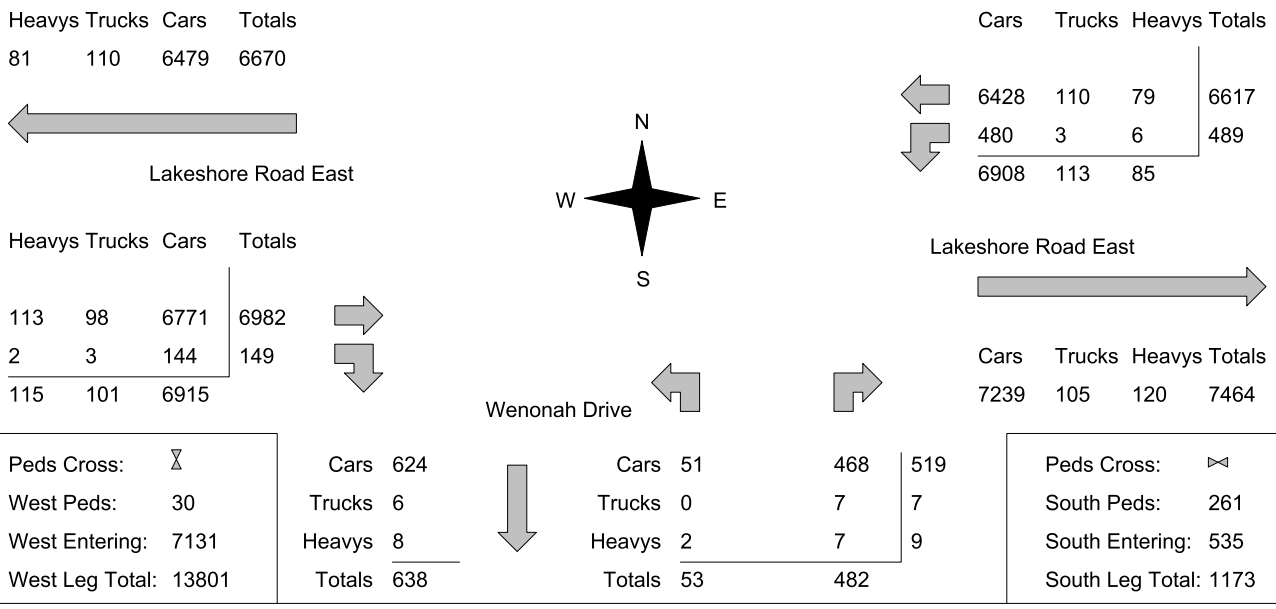
Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Lakeshore Road East runs W/E

East Leg Total: 14570
East Entering: 7106
East Peds: 29
Peds Cross: ⧖



Peds Cross: ⧖
West Peds: 30
West Entering: 7131
West Leg Total: 13801

Cars 624
Trucks 6
Heavys 8
Totals 638

Cars 51 468 519
Trucks 0 7 7
Heavys 2 7 9
Totals 53 482

Peds Cross: ⋈
South Peds: 261
South Entering: 535
South Leg Total: 1173

Comments

Lakeshore Road East & Wenonah Drive
Traffic Count Summary

Intersection: Lakeshore Road East & Wenonah | **Count Date:** 8-Nov-2022 | **Municipality:** Mississauga

North Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	0	0	0	0	0	56
9:00:00	0	0	0	0	0	96
10:00:00	0	0	0	0	0	45
12:00:00	0	0	0	0	0	27
13:00:00	0	0	0	0	0	67
15:00:00	0	0	0	0	0	25
16:00:00	0	0	0	0	0	83
17:00:00	0	0	0	0	0	80
18:00:00	0	0	0	0	0	56
Totals:	0	0	0	0	0	535

South Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	10	0	46	56	7
9:00:00	0	0	96	96	21
10:00:00	6	0	39	45	14
12:00:00	4	0	23	27	35
13:00:00	12	0	55	67	70
15:00:00	5	0	20	25	14
16:00:00	8	0	75	83	25
17:00:00	6	0	74	80	33
18:00:00	2	0	54	56	42
Totals:	53	0	482	535	261

East Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	28	468	0	496	3	1336
9:00:00	82	968	0	1050	11	2224
10:00:00	39	568	0	607	4	1387
12:00:00	25	324	0	349	1	676
13:00:00	62	707	0	769	5	1482
15:00:00	26	353	0	379	3	747
16:00:00	85	998	0	1083	1	2053
17:00:00	82	1135	0	1217	1	2182
18:00:00	60	1096	0	1156	0	2150
Totals:	489	6617	0	7106	29	14237

West Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	0	834	6	840	0
9:00:00	0	1141	33	1174	1
10:00:00	0	771	9	780	5
12:00:00	0	319	8	327	3
13:00:00	0	698	15	713	5
15:00:00	0	351	17	368	2
16:00:00	0	947	23	970	0
17:00:00	0	943	22	965	2
18:00:00	0	978	16	994	12
Totals:	0	6982	149	7131	30

Calculated Values for Traffic Crossing Major Street

Hours Ending:	8:00	9:00	10:00	13:00	15:00	16:00	17:00	18:00
Crossing Values:	13	12	15	22	10	9	9	14

Wanita Road & Elmwood Avenue

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 10:00:00

One Hour Peak
From: 8:30:00
To: 9:30:00

Municipality: Mississauga
Site #: 0000006705
Intersection: Elmwood Avenue & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Elmwood Avenue runs N/S

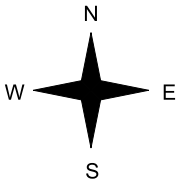
North Leg Total: 44
North Entering: 24
North Peds: 22
Peds Cross: ⋈

Heavys	0	0	0
Trucks	0	0	0
Cars	7	17	24
Totals	7	17	

Heavys	0
Trucks	0
Cars	20
Totals	20

East Leg Total: 33
East Entering: 15
East Peds: 0
Peds Cross: ⋈

	Cars	Trucks	Heavys	Totals
	12	0	0	12
	3	0	0	3
	15	0	0	



	Cars	Trucks	Heavys	Totals
	18	0	0	18

Cars	10	Cars	8	1	9
Trucks	0	Trucks	0	0	0
Heavys	0	Heavys	0	0	0
Totals	10	Totals	8	1	

Peds Cross: ⋈
South Peds: 10
South Entering: 9
South Leg Total: 19

Comments

Wanita Road & Elmwood Avenue

Mid-day Peak Diagram

Specified Period
From: 11:30:00
To: 13:30:00

One Hour Peak
From: 12:15:00
To: 13:15:00

Municipality: Mississauga
Site #: 0000006705
Intersection: Elmwood Avenue & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Elmwood Avenue runs N/S

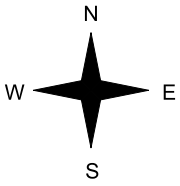
North Leg Total: 27
North Entering: 13
North Peds: 7
Peds Cross: ⋈

Heavys	0	0	0
Trucks	0	1	1
Cars	6	6	12
Totals	6	7	

Heavys	0
Trucks	0
Cars	14
Totals	14

East Leg Total: 26
East Entering: 14
East Peds: 1
Peds Cross: ⋈

	Cars	Trucks	Heavys	Totals
	11	0	0	11
	3	0	0	3
	14	0	0	



	Cars	Trucks	Heavys	Totals
	11	1	0	12

Cars	9	Cars	3	5	8
Trucks	0	Trucks	0	0	0
Heavys	0	Heavys	0	0	0
Totals	9	Totals	3	5	

Peds Cross: ⋈
South Peds: 9
South Entering: 8
South Leg Total: 17

Comments

Wanita Road & Elmwood Avenue

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 15:00:00
To: 16:00:00

Municipality: Mississauga
Site #: 0000006705
Intersection: Elmwood Avenue & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Elmwood Avenue runs N/S

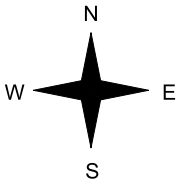
North Leg Total: 37
North Entering: 19
North Peds: 29
Peds Cross: ⋈

Heavys	0	0	0
Trucks	0	0	0
Cars	4	15	19
Totals	4	15	

Heavys	0
Trucks	0
Cars	18
Totals	18

East Leg Total: 33
East Entering: 18
East Peds: 0
Peds Cross: ⋈

	Cars	Trucks	Heavys	Totals
	16	0	0	16
	2	0	0	2
	18	0	0	



	Cars	Trucks	Heavys	Totals
	15	0	0	15

Cars	6		
Trucks	0		
Heavys	0		
Totals	6		

Cars	2	0	2
Trucks	0	0	0
Heavys	0	0	0
Totals	2	0	

Peds Cross: ⋈
South Peds: 6
South Entering: 2
South Leg Total: 8

Comments

Wanita Road & Elmwood Avenue

Total Count Diagram

Municipality: Mississauga
Site #: 0000006705
Intersection: Elmwood Avenue & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Elmwood Avenue runs N/S

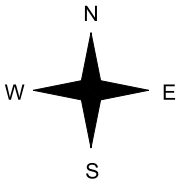
North Leg Total: 219
North Entering: 102
North Peds: 97
Peds Cross: ⋈

Heavys	0	0	0
Trucks	0	2	2
Cars	33	67	100
Totals	33	69	

Heavys	0
Trucks	0
Cars	117
Totals	117

East Leg Total: 175
East Entering: 95
East Peds: 7
Peds Cross: ⋈

	Cars	Trucks	Heavys	Totals
	82	0	0	82
	13	0	0	13
	95	0	0	



	Cars	Trucks	Heavys	Totals
	78	2	0	80

Cars	46	Cars	35	11	46
Trucks	0	Trucks	0	0	0
Heavys	0	Heavys	0	0	0
Totals	46	Totals	35	11	

Peds Cross: ⋈
South Peds: 66
South Entering: 46
South Leg Total: 92

Comments

Wanita Road & Elmwood Avenue
Traffic Count Summary

Intersection: Elmwood Avenue & Wanita Road | **Count Date:** 8-Nov-2022 | **Municipality:** Mississauga

North Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	1	1	0	2	4	5
9:00:00	14	5	0	19	19	28
10:00:00	7	4	0	11	12	17
12:00:00	4	1	0	5	0	8
13:00:00	9	6	0	15	6	22
15:00:00	3	3	0	6	6	9
16:00:00	15	4	0	19	29	21
17:00:00	7	5	0	12	16	18
18:00:00	9	4	0	13	5	20
Totals:	69	33	0	102	97	148

South Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	0	3	0	3	8
9:00:00	0	9	0	9	10
10:00:00	0	5	1	6	10
12:00:00	0	2	1	3	4
13:00:00	0	4	3	7	11
15:00:00	0	1	2	3	1
16:00:00	0	2	0	2	6
17:00:00	0	3	3	6	9
18:00:00	0	6	1	7	7
Totals:	0	35	11	46	66

East Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	0	0	8	8	3	8
9:00:00	0	0	13	13	1	13
10:00:00	3	0	7	10	0	10
12:00:00	1	0	5	6	0	6
13:00:00	3	0	8	11	0	11
15:00:00	0	0	8	8	1	8
16:00:00	2	0	16	18	0	18
17:00:00	2	0	10	12	1	12
18:00:00	2	0	7	9	1	9
Totals:	13	0	82	95	7	95

West Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	0	0	0	0	0
9:00:00	0	0	0	0	0
10:00:00	0	0	0	0	0
12:00:00	0	0	0	0	0
13:00:00	0	0	0	0	0
15:00:00	0	0	0	0	0
16:00:00	0	0	0	0	0
17:00:00	0	0	0	0	0
18:00:00	0	0	0	0	0
Totals:	0	0	0	0	0

Calculated Values for Traffic Crossing Major Street

Hours Ending:	9:00	10:00	12:00	13:00	15:00	16:00	17:00	18:00
Crossing Values:	29	25	5	20	7	37	27	14

Wanita Road & Cumberland Drive

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 10:00:00

One Hour Peak
From: 8:15:00
To: 9:15:00

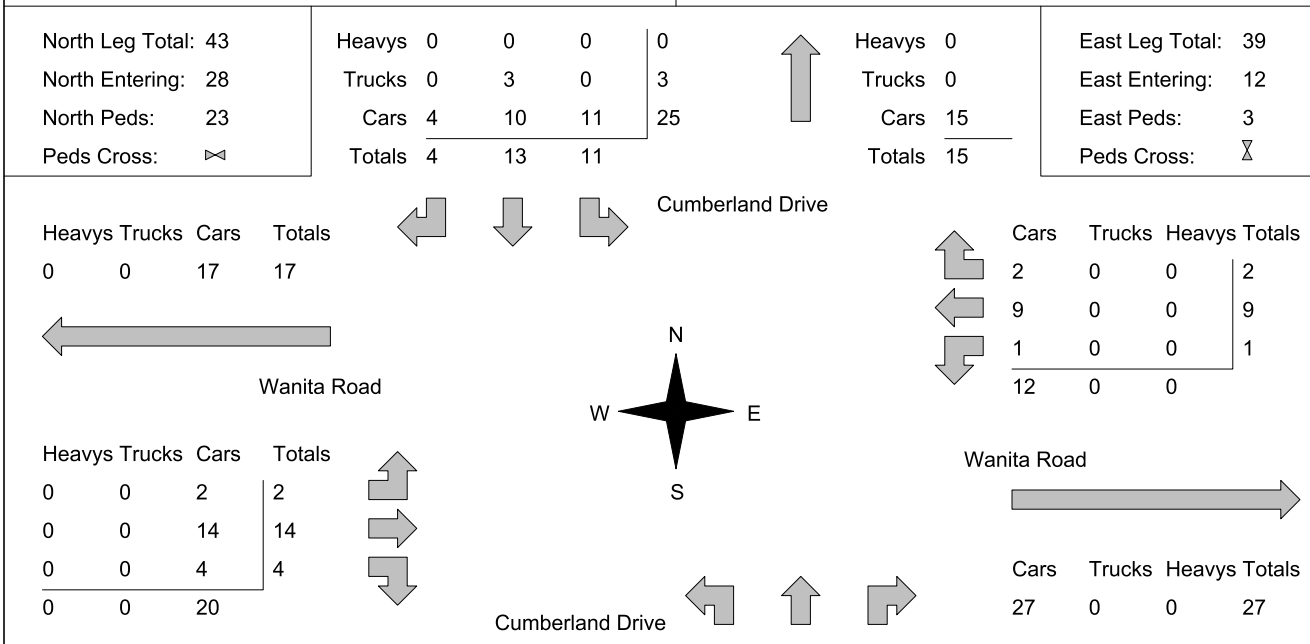
Municipality: Mississauga
Site #: 0000006706
Intersection: Cumberland Drive & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Cumberland Drive runs N/S



Comments

Wanita Road & Cumberland Drive

Mid-day Peak Diagram

Specified Period
From: 11:30:00
To: 13:30:00

One Hour Peak
From: 11:45:00
To: 12:45:00

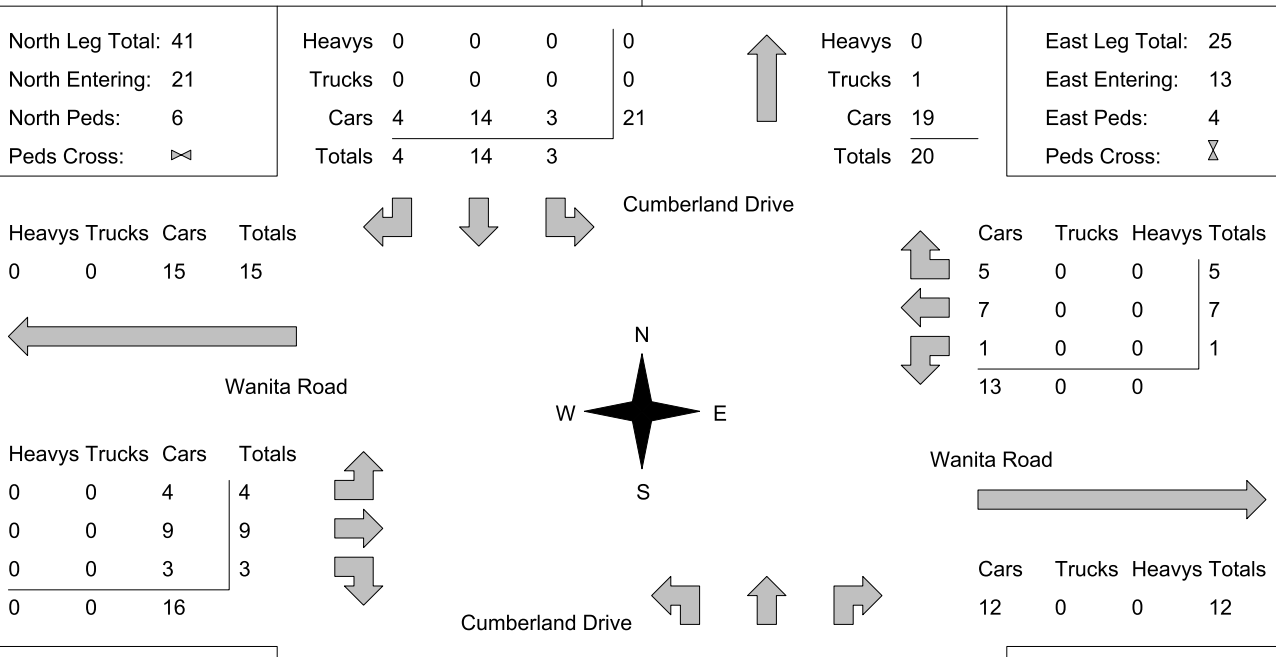
Municipality: Mississauga
Site #: 0000006706
Intersection: Cumberland Drive & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Cumberland Drive runs N/S



Comments

Wanita Road & Cumberland Drive

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 15:30:00
To: 16:30:00

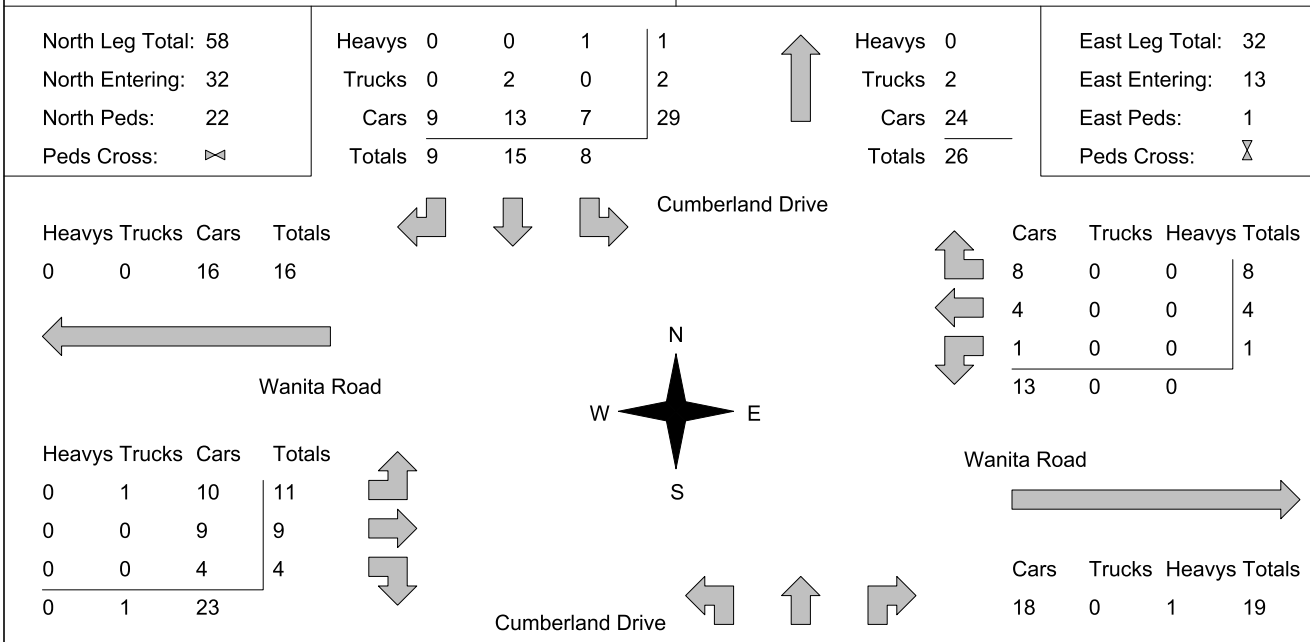
Municipality: Mississauga
Site #: 0000006706
Intersection: Cumberland Drive & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Cumberland Drive runs N/S



Comments

Wanita Road & Cumberland Drive

Total Count Diagram

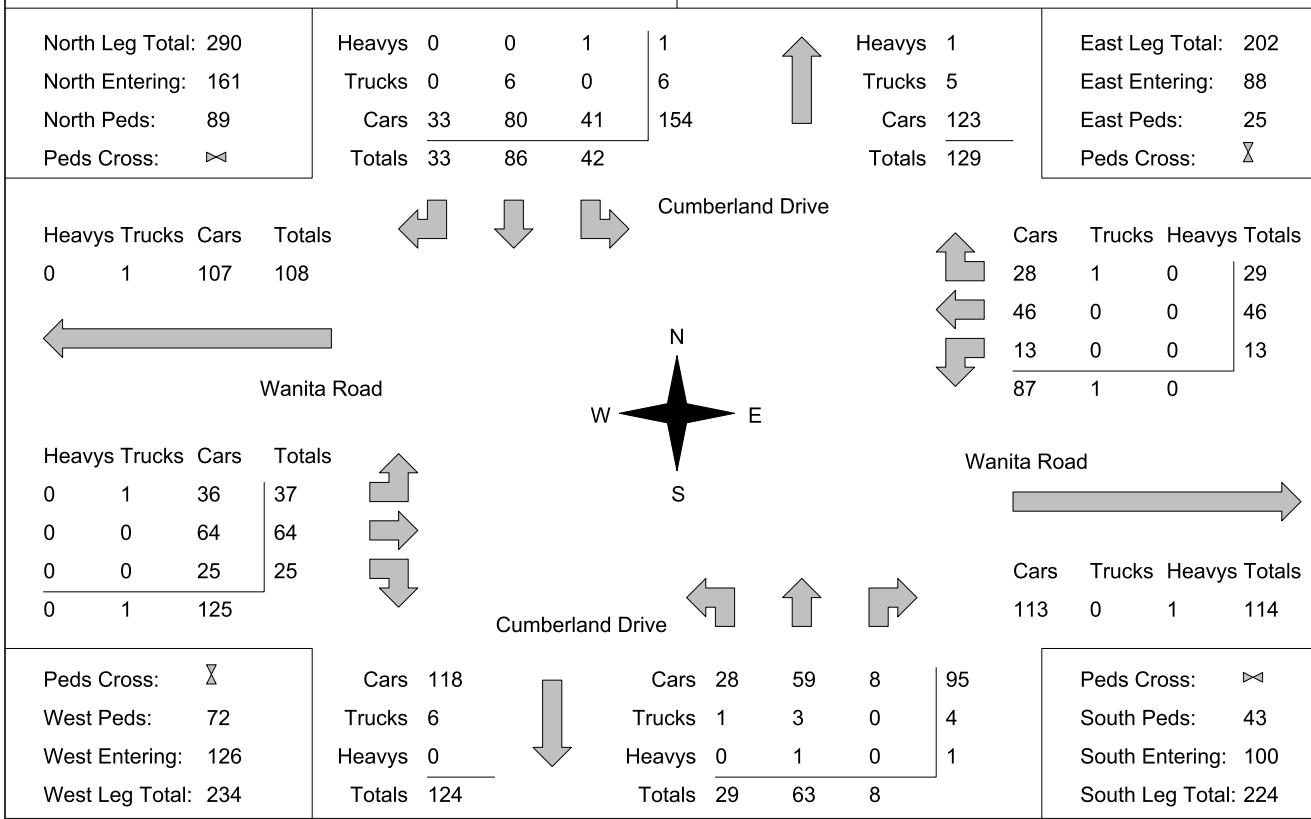
Municipality: Mississauga
Site #: 0000006706
Intersection: Cumberland Drive & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Cumberland Drive runs N/S



Comments

Wanita Road & Cumberland Drive
Traffic Count Summary

Intersection: Cumberland Drive & Wanita Road | **Count Date:** 8-Nov-2022 | **Municipality:** Mississauga

North Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	1	2	1	4	4	16
9:00:00	10	11	1	22	19	37
10:00:00	3	13	7	23	12	39
12:00:00	2	9	3	14	4	17
13:00:00	3	13	4	20	6	34
15:00:00	2	1	1	4	3	9
16:00:00	8	11	7	26	25	36
17:00:00	8	12	6	26	10	39
18:00:00	5	14	3	22	6	34
Totals:	42	86	33	161	89	261

South Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	5	7	0	12	4
9:00:00	5	9	1	15	4
10:00:00	4	11	1	16	11
12:00:00	1	2	0	3	2
13:00:00	4	10	0	14	10
15:00:00	1	2	2	5	1
16:00:00	3	6	1	10	3
17:00:00	4	8	1	13	5
18:00:00	2	8	2	12	3
Totals:	29	63	8	100	43

East Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	1	5	1	7	2	11
9:00:00	2	9	2	13	5	29
10:00:00	5	3	1	9	3	19
12:00:00	0	4	3	7	1	18
13:00:00	1	5	5	11	6	27
15:00:00	1	2	3	6	2	11
16:00:00	0	8	6	14	0	36
17:00:00	2	4	6	12	3	33
18:00:00	1	6	2	9	3	30
Totals:	13	46	29	88	25	214

West Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	1	3	0	4	6
9:00:00	2	11	3	16	17
10:00:00	2	6	2	10	5
12:00:00	4	4	3	11	2
13:00:00	4	8	4	16	4
15:00:00	1	2	2	5	5
16:00:00	7	11	4	22	15
17:00:00	10	7	4	21	13
18:00:00	6	12	3	21	5
Totals:	37	64	25	126	72

Calculated Values for Traffic Crossing Major Street

Hours Ending:	8:00	9:00	10:00	12:00	13:00	16:00	17:00	18:00
Crossing Values:	15	38	36	14	29	46	34	28

Wanita Road & Hiawatha Parkway

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 10:00:00

One Hour Peak
From: 8:15:00
To: 9:15:00

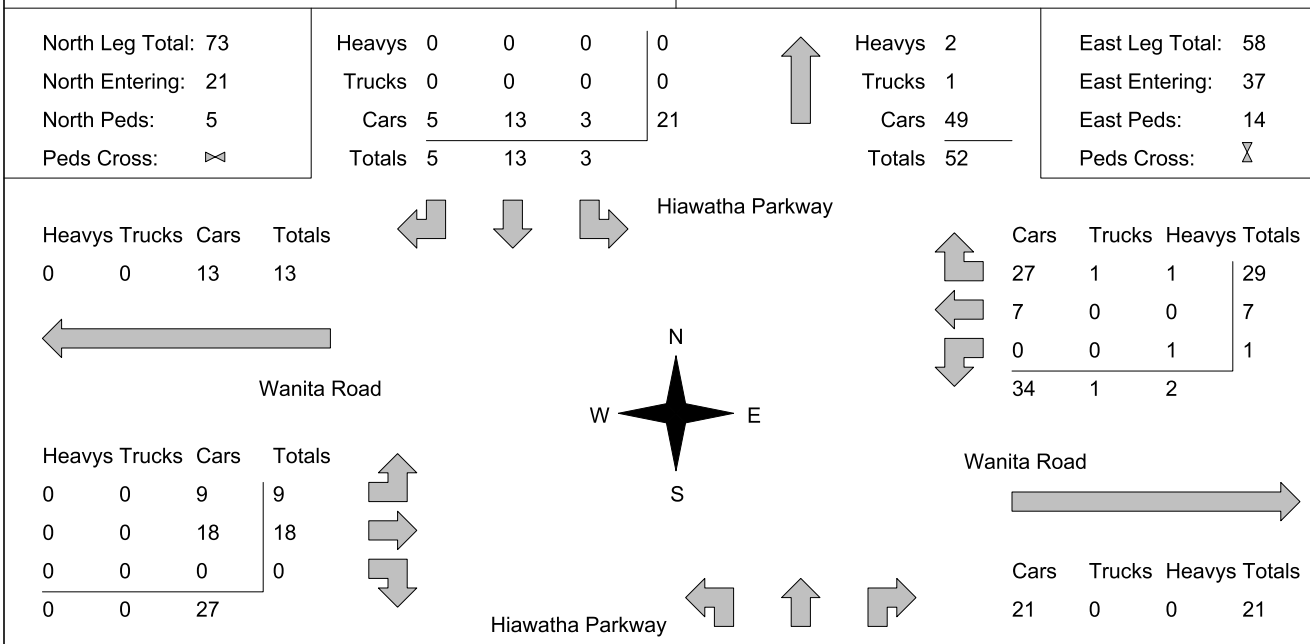
Municipality: Mississauga
Site #: 0000006707
Intersection: Hiawatha Parkway & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Hiawatha Parkway runs N/S



Comments

Wanita Road & Hiawatha Parkway

Mid-day Peak Diagram

Specified Period
From: 11:30:00
To: 13:30:00

One Hour Peak
From: 12:30:00
To: 13:30:00

Municipality: Mississauga
Site #: 0000006707
Intersection: Hiawatha Parkway & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Hiawatha Parkway runs N/S

North Leg Total: 35
North Entering: 17
North Peds: 2
Peds Cross: ⋈

Heavys	0	0	0	0
Trucks	0	0	0	0
Cars	3	12	2	17
Totals	3	12	2	

Heavys	0
Trucks	0
Cars	18
Totals	18

East Leg Total: 19
East Entering: 10
East Peds: 3
Peds Cross: ⧖

Heavys	Trucks	Cars	Totals
0	0	16	16

Hiawatha Parkway

Wanita Road

Cars	Trucks	Heavys	Totals
1	0	0	1
9	0	0	9
0	0	0	0
10	0	0	

N
W E
S

Heavys	Trucks	Cars	Totals
0	0	4	4
0	0	6	6
0	0	2	2
0	0	12	

Wanita Road

Cars	Trucks	Heavys	Totals
9	0	0	9

Hiawatha Parkway

Peds Cross: ⧖
West Peds: 8
West Entering: 12
West Leg Total: 28

Cars	14
Trucks	0
Heavys	0
Totals	14

Cars	4	13	1	18
Trucks	0	0	0	0
Heavys	0	0	0	0
Totals	4	13	1	

Peds Cross: ⋈
South Peds: 2
South Entering: 18
South Leg Total: 32

Comments

Wanita Road & Hiawatha Parkway

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 15:15:00
To: 16:15:00

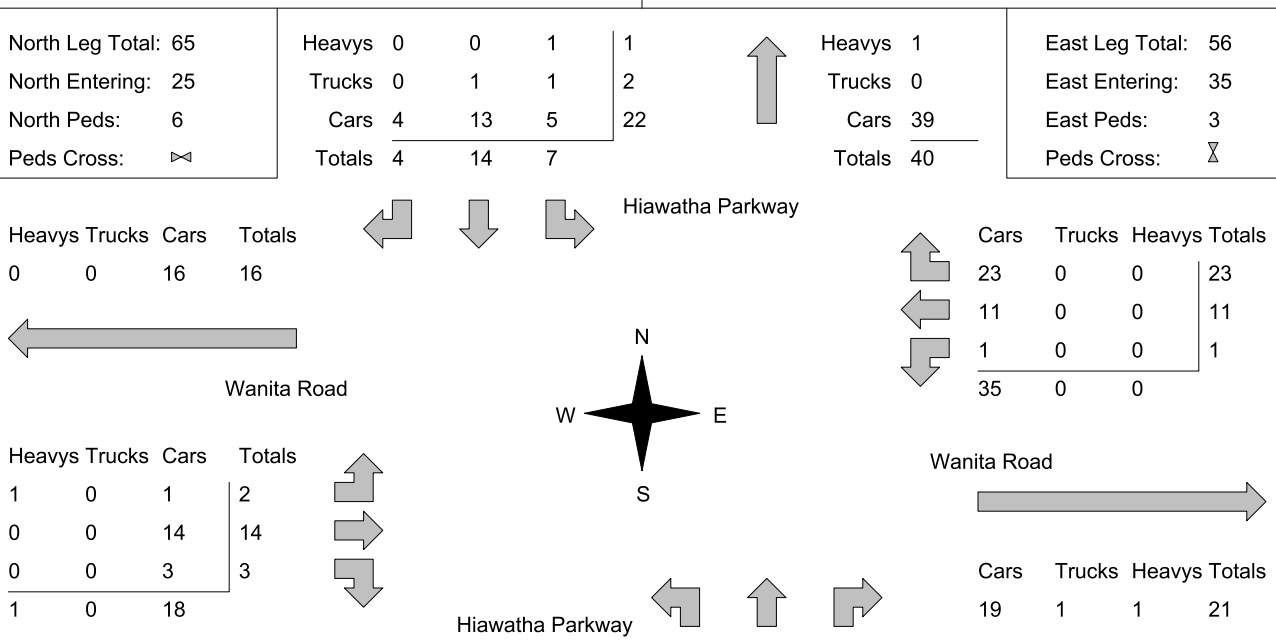
Municipality: Mississauga
Site #: 0000006707
Intersection: Hiawatha Parkway & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Hiawatha Parkway runs N/S



Comments

Wanita Road & Hiawatha Parkway

Total Count Diagram

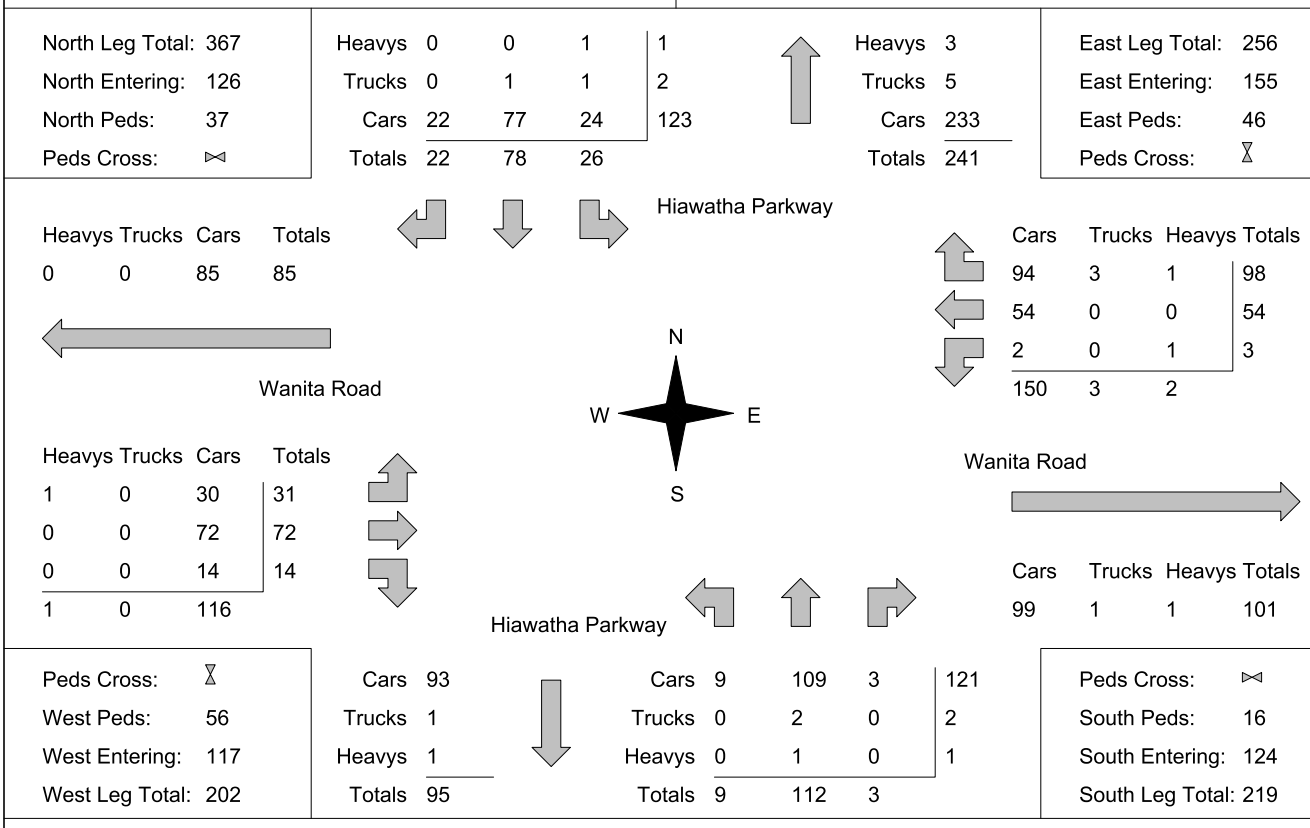
Municipality: Mississauga
Site #: 0000006707
Intersection: Hiawatha Parkway & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Hiawatha Parkway runs N/S



Comments

Wanita Road & Hiawatha Parkway
Traffic Count Summary

Intersection: Hiawatha Parkway & Wanita Road | **Count Date:** 8-Nov-2022 | **Municipality:** Mississauga

North Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	3	6	1	10	3	23
9:00:00	3	13	2	18	4	37
10:00:00	0	5	7	12	5	29
12:00:00	2	4	0	6	1	17
13:00:00	4	9	1	14	5	31
15:00:00	0	4	2	6	1	14
16:00:00	9	14	2	25	7	40
17:00:00	2	10	5	17	4	28
18:00:00	3	13	2	18	7	31
Totals:	26	78	22	126	37	250

South Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	1	12	0	13	4
9:00:00	1	18	0	19	1
10:00:00	0	16	1	17	4
12:00:00	1	10	0	11	1
13:00:00	2	15	0	17	3
15:00:00	2	5	1	8	0
16:00:00	1	14	0	15	0
17:00:00	1	10	0	11	2
18:00:00	0	12	1	13	1
Totals:	9	112	3	124	16

East Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	0	2	7	9	2	16
9:00:00	1	9	26	36	14	59
10:00:00	0	4	9	13	5	23
12:00:00	1	3	4	8	2	16
13:00:00	0	7	4	11	7	23
15:00:00	0	5	0	5	2	11
16:00:00	0	9	22	31	3	49
17:00:00	1	9	15	25	6	40
18:00:00	0	6	11	17	5	35
Totals:	3	54	98	155	46	272

West Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	2	5	0	7	2
9:00:00	9	14	0	23	11
10:00:00	5	4	1	10	4
12:00:00	2	6	0	8	7
13:00:00	6	5	1	12	8
15:00:00	1	3	2	6	4
16:00:00	2	13	3	18	3
17:00:00	1	11	3	15	10
18:00:00	3	11	4	18	7
Totals:	31	72	14	117	56

Calculated Values for Traffic Crossing Major Street

Hours Ending:	8:00	9:00	10:00	12:00	13:00	16:00	17:00	18:00
Crossing Values:	14	29	18	11	21	22	19	22

Wanita Road & Wenonah Drive

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 10:00:00

One Hour Peak
From: 8:15:00
To: 9:15:00

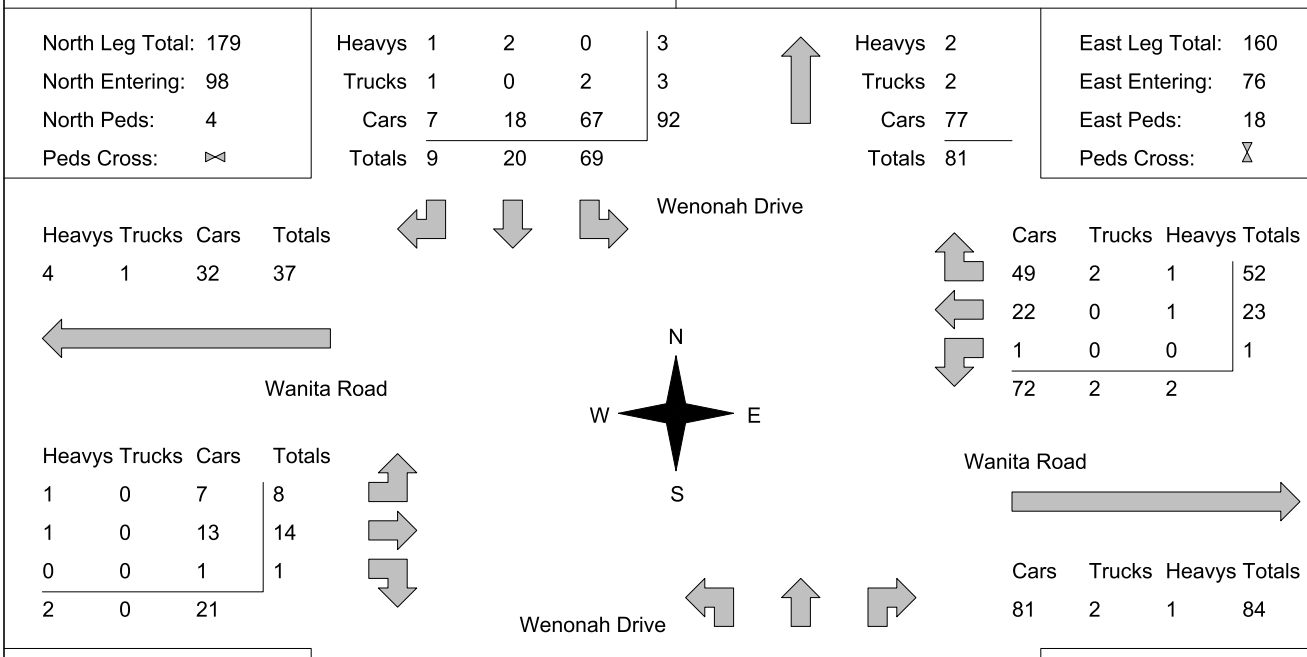
Municipality: Mississauga
Site #: 0000006708
Intersection: Wenonah Drive & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Wenonah Drive runs N/S



Comments

Wanita Road & Wenonah Drive

Mid-day Peak Diagram

Specified Period
From: 11:30:00
To: 13:30:00

One Hour Peak
From: 11:30:00
To: 12:30:00

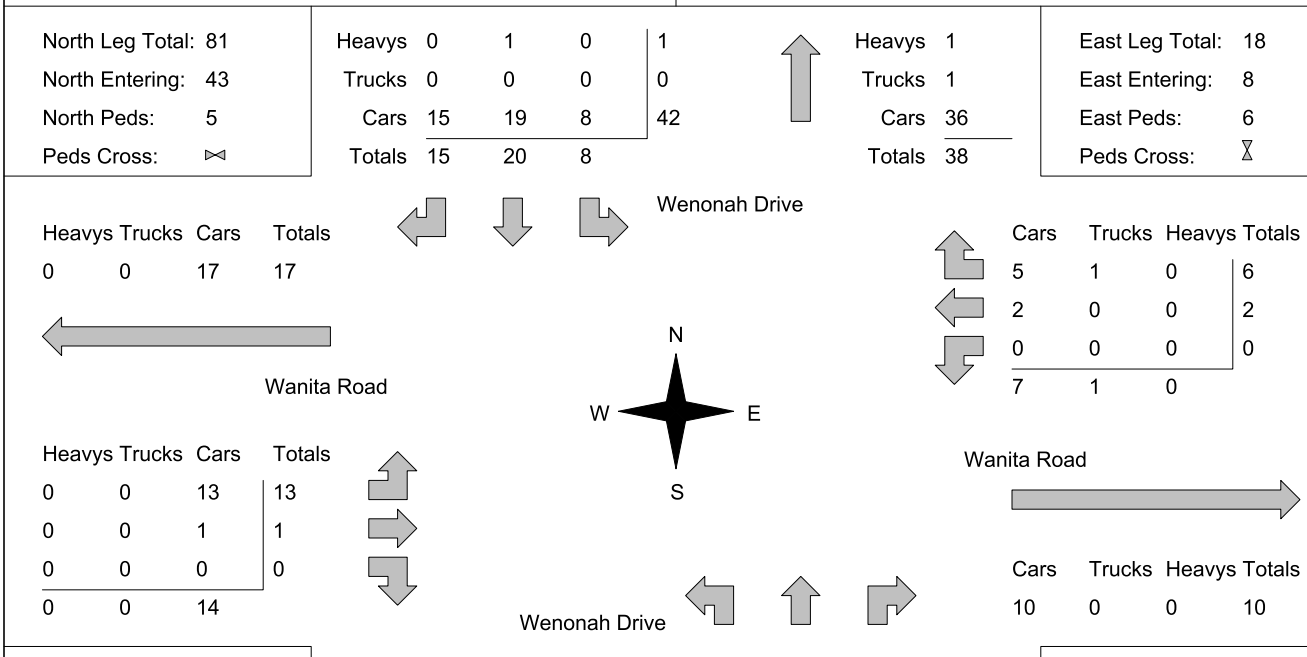
Municipality: Mississauga
Site #: 0000006708
Intersection: Wenonah Drive & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Wenonah Drive runs N/S



Comments

Wanita Road & Wenonah Drive

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 15:15:00
To: 16:15:00

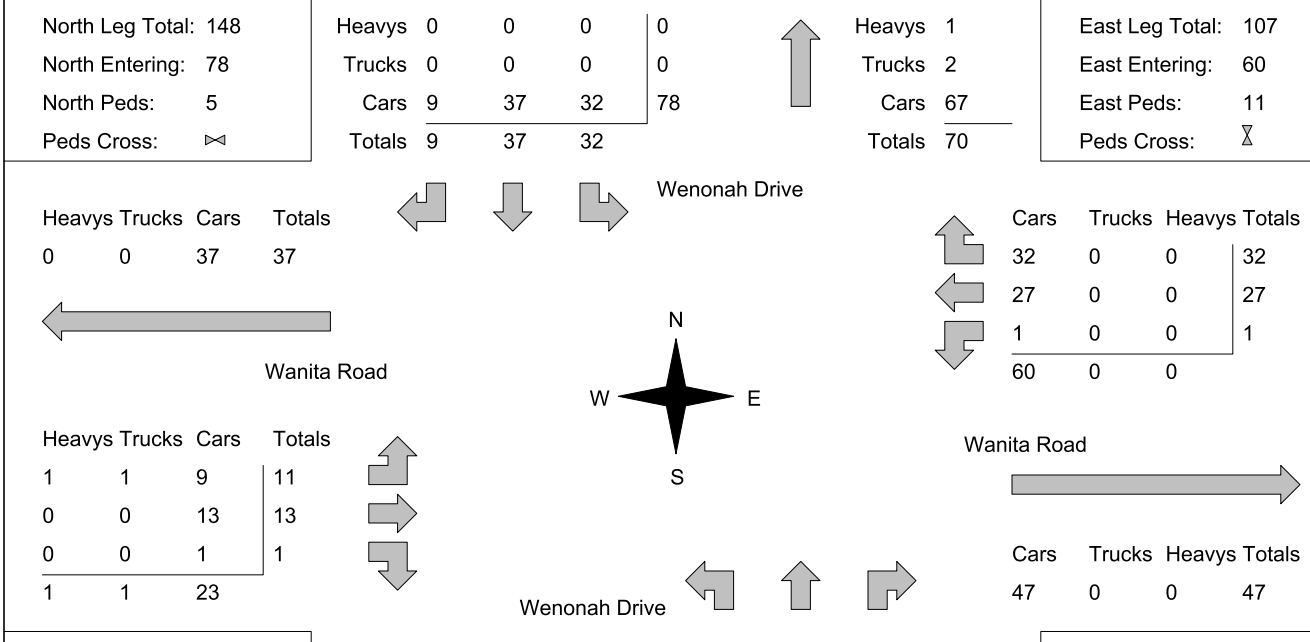
Municipality: Mississauga
Site #: 0000006708
Intersection: Wenonah Drive & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Wenonah Drive runs N/S



Comments

Wanita Road & Wenonah Drive

Total Count Diagram

Municipality: Mississauga
Site #: 0000006708
Intersection: Wenonah Drive & Wanita Road
TFR File #: 1
Count date: 8-Nov-2022

Weather conditions:
Clear

Person(s) who counted:

**** Non-Signalized Intersection ****

Major Road: Wenonah Drive runs N/S

North Leg Total:	827
North Entering:	442
North Peds:	36
Peds Cross:	⋈

Heavys	1	5	0	6
Trucks	1	1	4	6
Cars	69	169	192	430
Totals	71	175	196	

Heavys	5
Trucks	6
Cars	374
Totals	385

East Leg Total:	489
East Entering:	247
East Peds:	77
Peds Cross:	⧖

Wenonah Drive

Heavys	Trucks	Cars	Totals
5	1	161	167

Cars	Trucks	Heavys	Totals
156	4	1	161
80	0	1	81
4	1	0	5
240	5	2	

Wanita Road

N
W E
S

Heavys	Trucks	Cars	Totals
2	1	61	64
1	0	38	39
0	0	12	12
3	1	111	

Wanita Road

Cars	Trucks	Heavys	Totals
237	4	1	242

Wenonah Drive

Peds Cross:	⧖
West Peds:	16
West Entering:	115
West Leg Total:	282

Cars	185
Trucks	2
Heavys	5
Totals	192

Cars	12	157	7	176
Trucks	0	1	0	1
Heavys	3	2	0	5
Totals	15	160	7	

Peds Cross:	⋈
South Peds:	21
South Entering:	182
South Leg Total:	374

Comments

Wanita Road & Wenonah Drive
Traffic Count Summary

Intersection: Wenonah Drive & Wanita Road | **Count Date:** 8-Nov-2022 | **Municipality:** Mississauga

North Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	19	9	8	36	5	56
9:00:00	72	18	10	100	5	132
10:00:00	6	11	9	26	6	42
12:00:00	7	9	8	24	3	33
13:00:00	1	26	11	38	3	61
15:00:00	7	12	4	23	0	32
16:00:00	37	32	7	76	4	102
17:00:00	27	37	7	71	3	101
18:00:00	20	21	7	48	7	65
Totals:	196	175	71	442	36	624

South Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	1	19	0	20	6
9:00:00	5	26	1	32	3
10:00:00	2	13	1	16	3
12:00:00	0	9	0	9	0
13:00:00	2	19	2	23	1
15:00:00	1	8	0	9	2
16:00:00	2	22	2	26	1
17:00:00	1	28	1	30	4
18:00:00	1	16	0	17	1
Totals:	15	160	7	182	21

East Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches
7:00:00	0	0	0	0	0	0
8:00:00	1	5	12	18	11	31
9:00:00	1	22	47	70	18	89
10:00:00	0	4	15	19	7	26
12:00:00	0	0	4	4	5	11
13:00:00	0	2	4	6	3	22
15:00:00	0	1	3	4	2	9
16:00:00	0	25	33	58	12	80
17:00:00	3	12	19	34	10	50
18:00:00	0	10	24	34	9	44
Totals:	5	81	161	247	77	362

West Approach Totals

Hour Ending	Includes Cars, Trucks, & Heavys: Left	Thru	Right	Grand Total	Total Peds
7:00:00	0	0	0	0	0
8:00:00	10	3	0	13	2
9:00:00	7	11	1	19	3
10:00:00	4	3	0	7	1
12:00:00	6	1	0	7	4
13:00:00	11	1	4	16	2
15:00:00	4	1	0	5	0
16:00:00	8	12	2	22	1
17:00:00	8	4	4	16	2
18:00:00	6	3	1	10	1
Totals:	64	39	12	115	16

Calculated Values for Traffic Crossing Major Street

Hours Ending:	8:00	9:00	10:00	12:00	13:00	16:00	17:00	18:00
Crossing Values:	27	38	17	10	17	38	30	24

Generic ASC | 0706 | LAKESHORE ROAD E @ Elmwood Avenue

Phase - Parameter 1-16	Units	1	2	3	4	5	6	7	8
Walk	Sec	0	10	0	10	0	0	0	0
Ped Clear	Sec	0	12	0	19	0	0	0	0
Min Green	Sec	0	10	0	10	0	0	0	0
Passage	Sec	0.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0
Maximum 1	Sec	0	68	0	20	0	0	0	0
Maximum 2	Sec	0	68	0	20	0	0	0	0
Yellow Change	Sec	3.0	3.5	3.0	3.0	3.0	4.0	3.0	4.0
Red Clearance	Sec	0.0	2.0	0.0	3.0	0.0	0.0	0.0	0.0
Red Revert	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Added Initial	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Initial	Sec	0	0	0	0	0	0	0	0
Time Before Reduction	Sec	0	0	0	0	0	0	0	0
Cars Before Reduction	Veh	0	0	0	0	0	0	0	0
Time To Reduce	Sec	0	0	0	0	0	0	0	0
Reduce By	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Min Gap	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dynamic Max Limit	Sec	0	0	0	0	0	0	0	0
Dynamic Max Step	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[P2] Start Up	Enum	other	redClear	other	phaseNotOn	other	other	other	other
[P2] Options	Bit		0:Enabled Phase 3:Non-Actuated 1 7:Max Vehicle Recall 8:Ped. Recall 13:Actuated Rest In Walk		0:Enabled Phase 5:Non Lock Detector Memory				
[P2] Ring	Ring	0	1	0	1	0	0	0	0
[P2] Concurrency	Phase (,)	()	()	()	()	()	()	()	()

Signal Timing Report

	Generic ASC		0706			LAKESHORE ROAD E @ Elmwood Avenue			
Coordination - Pattern 1-16	**Units**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**9**
Cycle Time	Sec	140	120	120	70	100	100	0	100
Offset	Sec	3	95	77	1	79	79	0	64
Split	Split	1	2	3	4	5	6	7	9
Sequence	Sequence	1	1	1	1	1	1	1	1

Coordination - Pattern 1-16	**Units**	**10**
Cycle Time	Sec	100
Offset	Sec	64
Split	Split	10
Sequence	Sequence	1

Coordination - Splits	**Units**	**Phase 2**	**Phase 4**
Split 1 - Mode	Enum	none	none
Split 1 - Time	Sec	105	35
Split 1 - Coord	Enum	True	False
Split 2 - Mode	Enum	none	none
Split 2 - Time	Sec	82	38
Split 2 - Coord	Enum	True	False
Split 3 - Mode	Enum	none	none
Split 3 - Time	Sec	82	38
Split 3 - Coord	Enum	True	False
Split 4 - Mode	Enum	none	pedestrianRecall
Split 4 - Time	Sec	35	35
Split 4 - Coord	Enum	True	False
Split 5 - Mode	Enum	none	pedestrianRecall
Split 5 - Time	Sec	65	35
Split 5 - Coord	Enum	True	False
Split 6 - Mode	Enum	none	none
Split 6 - Time	Sec	65	35
Split 6 - Coord	Enum	True	False
Split 9 - Mode	Enum	none	none
Split 9 - Time	Sec	65	35
Split 9 - Coord	Enum	True	False

	Generic ASC		0706			LAKESHORE ROAD E @ Elmwood Avenue			
Coordination - Splits	**Units**	**Phase 2**	**Phase 4**						
Split 10 - Mode	Enum	none	pedestrianRecall						
Split 10 - Time	Sec	65	35						
Split 10 - Coord	Enum	True	False						
Time Base - Schedule 1-16	**Units**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Month	Bit	JFMAMJJASOND	JFMAMJJASOND	JFMAMJJASOND	J----------	-F----------	---A--------	----M-------	------J-----
Day of Week	Bit	-MTWTF-	S------	------S	-M-----	-M-----	-----F-	-M-----	-----F-
Day of Month	Bit	12345678901234567 89012345678901	12345678901234567 89012345678901	12345678901234567 89012345678901	--3---------- ---	----------1------ ---	----------5---------- ---	----------3----- ---	1---------- ---
Day Plan	Number	1	3	2	3	3	3	3	3
Time Base - Schedule 1-16	**Units**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
Month	Bit	-------A----	--------S---	---------O--	----------D	----------D	----------D	--------S---	----------
Day of Week	Bit	-M-----	-M-----	-M-----	--T----	SMTWTFS	---W---	-----F-	SMTWTFS
Day of Month	Bit	1---------- ---	----5---------- ---	---------0---------- ---	----------7- ---	---------- 8---	---------- 8---	---------- 0-	---------- --
Day Plan	Number	3	3	3	3	3	3	3	0
Time Base - Day Plans	**Units**	**Evt 1**	**Evt 2**	**Evt 3**	**Evt 4**	**Evt 5**	**Evt 6**	**Evt 7**	**Evt 8**
Plan 1 Hour	Hour	0	3	6	8	9	11	12	15
Plan 1 Minute	Min	0	0	0	30	30	45	45	0
Plan 1 Action	Number	8	7	1	4	2	5	6	3
Plan 2 Hour	Hour	0	6	3	0	0	0	0	0
Plan 2 Minute	Min	0	0	0	0	0	0	0	0
Plan 2 Action	Number	8	2	7	0	0	0	0	0
Plan 3 Hour	Hour	0	8	23	3	0	0	0	0
Plan 3 Minute	Min	0	0	0	0	0	0	0	0
Plan 3 Action	Number	8	2	8	7	0	0	0	0
Time Base - Day Plans	**Units**	**Evt 9**	**Evt 10**	**Evt 11**					
Plan 1 Hour	Hour	15	16	19					
Plan 1 Minute	Min	30	0	30					
Plan 1 Action	Number	10	9	2					
	Generic ASC		0706			LAKESHORE ROAD E @ Elmwood Avenue			
Time Base - Action 1-16	**Units**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Pattern	Enum	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6	Free	Free
Aux. Functions	Bit								
Spec. Functions	Bit								
Time Base - Action 1-16	**Units**	**9**	**10**						
Pattern	Enum	Pattern 9	Pattern 10						
Aux. Functions	Bit								
Spec. Functions	Bit								

Generic ASC | 0707 | LAKESHORE ROAD E @ Cumberland Drive

Phase - Parameter 1-16	Units	1	2	3	4	5	6	7	8
Walk	Sec	0	10	0	10	0	0	0	0
Ped Clear	Sec	0	10	0	19	0	0	0	0
Min Green	Sec	0	10	0	10	0	0	0	0
Passage	Sec	0.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0
Maximum 1	Sec	0	30	0	26	0	0	0	0
Maximum 2	Sec	0	30	0	26	0	0	0	0
Yellow Change	Sec	3.0	3.5	3.0	3.0	3.0	4.0	3.0	4.0
Red Clearance	Sec	0.0	2.5	0.0	3.0	0.0	0.0	0.0	0.0
Red Revert	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Added Initial	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Initial	Sec	0	0	0	0	0	0	0	0
Time Before Reduction	Sec	0	0	0	0	0	0	0	0
Cars Before Reduction	Veh	0	0	0	0	0	0	0	0
Time To Reduce	Sec	0	0	0	0	0	0	0	0
Reduce By	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Min Gap	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dynamic Max Limit	Sec	0	0	0	0	0	0	0	0
Dynamic Max Step	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[P2] Start Up	Enum	other	redClear	other	phaseNotOn	other	other	other	other
[P2] Options	Bit		0:Enabled Phase 3:Non-Actuated 1 7:Max Vehicle Recall 8:Ped. Recall 13:Actuated Rest In Walk		0:Enabled Phase 5:Non Lock Detector Memory				
[P2] Ring	Ring	0	1	0	1	0	0	0	0
[P2] Concurrency	Phase (,)	()	()	()	()	()	()	()	()

Signal Timing Report

	Generic ASC		0707			LAKESHORE ROAD E @ Cumberland Drive			
Coordination - Pattern 1-16	**Units**	**1**	**2**	**3**					
Cycle Time	Sec	140	120	120					
Offset	Sec	17	101	77					
Split	Split	1	2	3					
Sequence	Sequence	1	1	1					
Coordination - Splits	**Units**	**Phase 2**	**Phase 4**						
Split 1 - Mode	Enum	none	none						
Split 1 - Time	Sec	105	35						
Split 1 - Coord	Enum	True	False						
Split 2 - Mode	Enum	none	none						
Split 2 - Time	Sec	85	35						
Split 2 - Coord	Enum	True	False						
Split 3 - Mode	Enum	none	none						
Split 3 - Time	Sec	85	35						
Split 3 - Coord	Enum	True	False						
Time Base - Schedule 1-16	**Units**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Month	Bit	JFMAMJJASOND	JFMAMJJASOND	JFMAMJJASOND	J----------	-F---------	---A-------	----M------	------J-----
Day of Week	Bit	-MTWTF-	S------	------S	-M-----	-M-----	-----F-	-M-----	-----F-
Day of Month	Bit	12345678901234567 89012345678901	12345678901234567 89012345678901	12345678901234567 89012345678901	--3---------- ---	----------1------ ---	----------5---------- ---	----------3----- ---	1---------- ---
Day Plan	Number	1	3	2	3	3	3	3	3
Time Base - Schedule 1-16	**Units**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
Month	Bit	-------A----	--------S---	---------O--	----------D	----------D	----------D	--------S---	----------
Day of Week	Bit	-M-----	-M-----	-M-----	SMTWTFS	SMTWTFS	SMTWTFS	-----F-	SMTWTFS
Day of Month	Bit	1---------- ---	----5---------- ---	--------0--------- ---	----------7- ---	---------- 8---	----------4---- ---	---------- 0-	---------- --
Day Plan	Number	3	3	3	3	3	3	3	0
	Generic ASC		0707			LAKESHORE ROAD E @ Cumberland Drive			
Time Base - Day Plans	**Units**	**Evt 1**	**Evt 2**	**Evt 3**	**Evt 4**	**Evt 5**	**Evt 6**		
Plan 1 Hour	Hour	0	3	6	9	15	19		
Plan 1 Minute	Min	0	0	0	30	0	30		
Plan 1 Action	Number	8	7	1	2	3	2		
Plan 2 Hour	Hour	0	3	7	0	0	0		
Plan 2 Minute	Min	0	0	0	0	0	0		
Plan 2 Action	Number	8	7	2	0	0	0		
Plan 3 Hour	Hour	0	3	8	23	0	0		
Plan 3 Minute	Min	0	0	0	0	0	0		
Plan 3 Action	Number	8	7	2	8	0	0		
Time Base - Action 1-16	**Units**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Pattern	Enum	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6	Free	Free
Aux. Functions	Bit								
Spec. Functions	Bit								
Time Base - Action 1-16	**Units**	**9**	**10**						
Pattern	Enum	Pattern 9	Pattern 10						
Aux. Functions	Bit								
Spec. Functions	Bit								

Generic ASC | 0708 | LAKESHORE ROAD E @ Hiawatha Parkway/Mohawk Avenue

Phase - Parameter 1-16	Units	1	2	3	4	5	6	7	8
Walk	Sec	0	10	0	10	0	0	0	0
Ped Clear	Sec	0	15	0	22	0	0	0	0
Min Green	Sec	0	10	0	10	0	0	0	0
Passage	Sec	0.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0
Maximum 1	Sec	0	30	0	25	0	0	0	0
Maximum 2	Sec	0	30	0	25	0	0	0	0
Yellow Change	Sec	3.0	3.5	3.0	3.0	3.0	4.0	3.0	4.0
Red Clearance	Sec	0.0	2.5	0.0	3.5	0.0	0.0	0.0	0.0
Red Revert	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Added Initial	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Initial	Sec	0	0	0	0	0	0	0	0
Time Before Reduction	Sec	0	0	0	0	0	0	0	0
Cars Before Reduction	Veh	0	0	0	0	0	0	0	0
Time To Reduce	Sec	0	0	0	0	0	0	0	0
Reduce By	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Min Gap	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dynamic Max Limit	Sec	0	0	0	0	0	0	0	0
Dynamic Max Step	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[P2] Start Up	Enum	other	redClear	other	phaseNotOn	other	other	other	other
[P2] Options	Bit		0:Enabled Phase 3:Non-Actuated 1 7:Max Vehicle Recall 8:Ped. Recall 13:Actuated Rest In Walk		0:Enabled Phase 5:Non Lock Detector Memory				
[P2] Ring	Ring	0	1	0	1	0	0	0	0
[P2] Concurrency	Phase (,)	()	()	()	()	()	()	()	()

Signal Timing Report

	Generic ASC		0708			LAKESHORE ROAD E @ Hiawatha Parkway/Mohawk Avenue			
Coordination - Pattern 1-16	**Units**	**1**	**2**	**3**					
Cycle Time	Sec	140	120	120					
Offset	Sec	36	92	72					
Split	Split	1	2	3					
Sequence	Sequence	1	1	1					
Coordination - Splits	**Units**	**Phase 2**	**Phase 4**						
Split 1 - Mode	Enum	none	none						
Split 1 - Time	Sec	105	35						
Split 1 - Coord	Enum	True	False						
Split 2 - Mode	Enum	none	none						
Split 2 - Time	Sec	78	42						
Split 2 - Coord	Enum	True	False						
Split 3 - Mode	Enum	none	none						
Split 3 - Time	Sec	78	42						
Split 3 - Coord	Enum	True	False						
Time Base - Schedule 1-16	**Units**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Month	Bit	JFMAMJJASOND	JFMAMJJASOND	JFMAMJJASOND	J----------	-F---------	---A--------	----M-------	------J-----
Day of Week	Bit	-MTWTF-	S------	------S	-M-----	-M-----	-----F-	-M-----	-----F-
Day of Month	Bit	12345678901234567 89012345678901	12345678901234567 89012345678901	12345678901234567 89012345678901	--3---------- ---	----------1------ ---	----------5---------- ---	----------3----- ---	1---------- ---
Day Plan	Number	1	3	2	3	3	3	3	3
Time Base - Schedule 1-16	**Units**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
Month	Bit	-------A----	--------S---	---------O--	----------D	----------D	----------D	--------S---	----------
Day of Week	Bit	-M-----	-M-----	-M-----	--T----	-M-----	---W---	-----F-	SMTWTFS
Day of Month	Bit	1---------- ---	----5---------- ---	---------0---------- ---	----------7- ---	----------6-- ---	---------- 8---	---------- 0-	---------- --
Day Plan	Number	3	3	3	3	3	3	3	0

	Generic ASC		0708			LAKESHORE ROAD E @ Hiawatha Parkway/Mohawk Avenue			
Time Base - Day Plans	**Units**	**Evt 1**	**Evt 2**	**Evt 3**	**Evt 4**	**Evt 5**	**Evt 6**		
Plan 1 Hour	Hour	0	3	6	9	15	19		
Plan 1 Minute	Min	0	0	0	30	0	30		
Plan 1 Action	Number	8	7	1	2	3	2		
Plan 2 Hour	Hour	0	3	7	0	0	0		
Plan 2 Minute	Min	0	0	0	0	0	0		
Plan 2 Action	Number	8	7	2	0	0	0		
Plan 3 Hour	Hour	0	3	8	23	0	0		
Plan 3 Minute	Min	0	0	0	0	0	0		
Plan 3 Action	Number	8	7	2	8	0	0		
Time Base - Action 1-16	**Units**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Pattern	Enum	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6	Free	Free
Aux. Functions	Bit								
Spec. Functions	Bit								
Time Base - Action 1-16	**Units**	**9**	**10**						
Pattern	Enum	Pattern 9	Pattern 10						
Aux. Functions	Bit								
Spec. Functions	Bit								

Appendix B

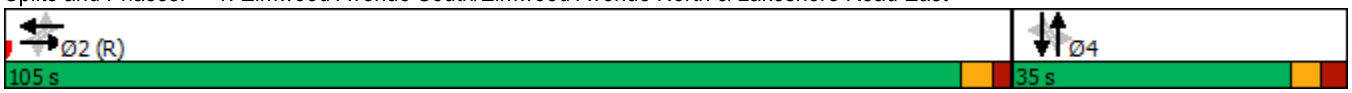
Base Year (2022) Traffic Operations Report

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	1061	14	4	963	17	11	8	6	17	4	16
Future Volume (vph)	25	1061	14	4	963	17	11	8	6	17	4	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.96			0.96	
Frt		0.998			0.997			0.968			0.942	
Flt Protected		0.999						0.978			0.978	
Satd. Flow (prot)	0	3491	0	0	3490	0	0	1793	0	0	1444	0
Flt Permitted		0.904			0.951			0.904			0.890	
Satd. Flow (perm)	0	3158	0	0	3318	0	0	1604	0	0	1313	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			3			6			16	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		105.4			99.3			216.2			182.4	
Travel Time (s)		7.6			7.1			15.6			13.1	
Confl. Peds. (#/hr)	31		42	42		31	53		1	1		53
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	0%	3%	0%	0%	3%	0%	0%	0%	0%	24%	0%	13%
Adj. Flow (vph)	26	1083	14	4	983	17	11	8	6	17	4	16
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1123	0	0	1004	0	0	25	0	0	37	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	27.5	27.5		27.5	27.5		35.0	35.0		35.0	35.0	
Total Split (s)	105.0	105.0		105.0	105.0		35.0	35.0		35.0	35.0	
Total Split (%)	75.0%	75.0%		75.0%	75.0%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)	99.5	99.5		99.5	99.5		29.0	29.0		29.0	29.0	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		3.0	3.0		3.0	3.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		5.5			5.5			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		Ped	Ped		Ped	Ped	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	12.0	12.0		12.0	12.0		19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		99.5			99.5			29.0			29.0	
Actuated g/C Ratio		0.71			0.71			0.21			0.21	
v/c Ratio		0.50			0.43			0.07			0.13	
Control Delay		10.0			7.5			37.3			31.0	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		10.0			7.5			37.3			31.0	
LOS		A			A			D			C	
Approach Delay		10.0			7.5			37.3			31.0	
Approach LOS		A			A			D			C	

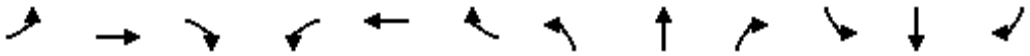
Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 3 (2%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.50			
Intersection Signal Delay: 9.5		Intersection LOS: A	
Intersection Capacity Utilization 81.5%		ICU Level of Service D	
Analysis Period (min) 15			

Splits and Phases: 1: Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East



Lane Group	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	1123	1004	25	37
v/c Ratio	0.50	0.43	0.07	0.13
Control Delay	10.0	7.5	37.3	31.0
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	10.0	7.5	37.3	31.0
Queue Length 50th (m)	70.2	38.6	4.5	5.0
Queue Length 95th (m)	84.8	44.5	13.0	15.5
Internal Link Dist (m)	81.4	75.3	192.2	158.4
Turn Bay Length (m)				
Base Capacity (vph)	2245	2359	337	284
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.50	0.43	0.07	0.13

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	1061	14	4	963	17	11	8	6	17	4	16
Future Volume (vph)	25	1061	14	4	963	17	11	8	6	17	4	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5			5.5			6.0			6.0	
Lane Util. Factor		0.95			0.95			1.00			1.00	
Frpb, ped/bikes		1.00			1.00			1.00			0.96	
Flpb, ped/bikes		1.00			1.00			0.97			1.00	
Frt		1.00			1.00			0.97			0.94	
Flt Protected		1.00			1.00			0.98			0.98	
Satd. Flow (prot)		3490			3490			1736			1442	
Flt Permitted		0.90			0.95			0.90			0.89	
Satd. Flow (perm)		3158			3320			1603			1312	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	26	1083	14	4	983	17	11	8	6	17	4	16
RTOR Reduction (vph)	0	1	0	0	1	0	0	5	0	0	13	0
Lane Group Flow (vph)	0	1122	0	0	1003	0	0	20	0	0	24	0
Confl. Peds. (#/hr)	31		42	42		31	53		1	1		53
Heavy Vehicles (%)	0%	3%	0%	0%	3%	0%	0%	0%	0%	24%	0%	13%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)		99.5			99.5			29.0			29.0	
Effective Green, g (s)		99.5			99.5			29.0			29.0	
Actuated g/C Ratio		0.71			0.71			0.21			0.21	
Clearance Time (s)		5.5			5.5			6.0			6.0	
Vehicle Extension (s)		3.0			3.0			3.0			3.0	
Lane Grp Cap (vph)		2244			2359			332			271	
v/s Ratio Prot												
v/s Ratio Perm		c0.36			0.30			0.01			c0.02	
v/c Ratio		0.50			0.43			0.06			0.09	
Uniform Delay, d1		9.1			8.4			44.6			44.8	
Progression Factor		1.00			0.82			1.00			1.00	
Incremental Delay, d2		0.8			0.6			0.1			0.1	
Delay (s)		9.9			7.4			44.6			45.0	
Level of Service		A			A			D			D	
Approach Delay (s)		9.9			7.4			44.6			45.0	
Approach LOS		A			A			D			D	

Intersection Summary			
HCM 2000 Control Delay	9.7	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.41		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	11.5
Intersection Capacity Utilization	81.5%	ICU Level of Service	D
Analysis Period (min)	15		

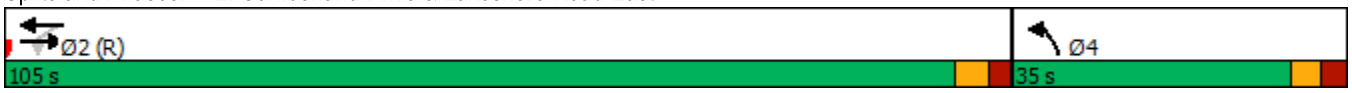
c Critical Lane Group

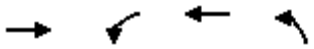
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1042	22	18	971	19	15
Future Volume (vph)	1042	22	18	971	19	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)		0.0	10.0		0.0	0.0
Storage Lanes		0	1		1	0
Taper Length (m)			37.0		7.5	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00		0.99		0.98	
Frt	0.997				0.940	
Flt Protected			0.950		0.973	
Satd. Flow (prot)	3485	0	1703	3471	1709	0
Flt Permitted			0.258		0.973	
Satd. Flow (perm)	3485	0	458	3471	1699	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	4				15	
Link Speed (k/h)	50			50	50	
Link Distance (m)	147.4			234.8	216.1	
Travel Time (s)	10.6			16.9	15.6	
Confl. Peds. (#/hr)		17	17		7	18
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	3%	9%	6%	4%	0%	0%
Adj. Flow (vph)	1063	22	18	991	19	15
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1085	0	18	991	34	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Number of Detectors	2		1	2	1	
Detector Template	Thru		Left	Thru	Left	
Leading Detector (m)	10.0		2.0	10.0	2.0	
Trailing Detector (m)	0.0		0.0	0.0	0.0	
Detector 1 Position(m)	0.0		0.0	0.0	0.0	
Detector 1 Size(m)	0.6		2.0	0.6	2.0	
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	
Detector 2 Position(m)	9.4			9.4		
Detector 2 Size(m)	0.6			0.6		
Detector 2 Type	Cl+Ex			Cl+Ex		
Detector 2 Channel						
Detector 2 Extend (s)	0.0			0.0		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Detector Phase	2		2	2	4	
Switch Phase						
Minimum Initial (s)	10.0		10.0	10.0	10.0	
Minimum Split (s)	26.0		26.0	26.0	35.0	
Total Split (s)	105.0		105.0	105.0	35.0	
Total Split (%)	75.0%		75.0%	75.0%	25.0%	
Maximum Green (s)	99.0		99.0	99.0	29.0	
Yellow Time (s)	3.5		3.5	3.5	3.0	
All-Red Time (s)	2.5		2.5	2.5	3.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.0		6.0	6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	10.0		10.0	10.0	10.0	
Flash Dont Walk (s)	10.0		10.0	10.0	19.0	
Pedestrian Calls (#/hr)	0		0	0	0	
Act Effct Green (s)	126.8		126.8	126.8	10.0	
Actuated g/C Ratio	0.91		0.91	0.91	0.07	
v/c Ratio	0.34		0.04	0.32	0.25	
Control Delay	0.9		1.8	1.8	44.8	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	0.9		1.8	1.8	44.8	
LOS	A		A	A	D	
Approach Delay	0.9			1.8	44.8	
Approach LOS	A			A	D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 17 (12%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.34			
Intersection Signal Delay: 2.0		Intersection LOS: A	
Intersection Capacity Utilization 55.0%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Cumberland Drive & Lakeshore Road East





Lane Group	EBT	WBL	WBT	NBL
Lane Group Flow (vph)	1085	18	991	34
v/c Ratio	0.34	0.04	0.32	0.25
Control Delay	0.9	1.8	1.8	44.8
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	0.9	1.8	1.8	44.8
Queue Length 50th (m)	8.6	0.6	24.1	5.3
Queue Length 95th (m)	10.2	m1.7	28.8	17.1
Internal Link Dist (m)	123.4		210.8	192.1
Turn Bay Length (m)		10.0		
Base Capacity (vph)	3156	415	3143	365
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.34	0.04	0.32	0.09

Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1042	22	18	971	19	15
Future Volume (vph)	1042	22	18	971	19	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	6.0	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	0.98	
Flpb, ped/bikes	1.00		0.99	1.00	1.00	
Frt	1.00		1.00	1.00	0.94	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3485		1682	3471	1709	
Flt Permitted	1.00		0.26	1.00	0.97	
Satd. Flow (perm)	3485		457	3471	1709	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	1063	22	18	991	19	15
RTOR Reduction (vph)	1	0	0	0	14	0
Lane Group Flow (vph)	1084	0	18	991	20	0
Confl. Peds. (#/hr)		17	17		7	18
Heavy Vehicles (%)	3%	9%	6%	4%	0%	0%
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Actuated Green, G (s)	122.0		122.0	122.0	6.0	
Effective Green, g (s)	122.0		122.0	122.0	6.0	
Actuated g/C Ratio	0.87		0.87	0.87	0.04	
Clearance Time (s)	6.0		6.0	6.0	6.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	3036		398	3024	73	
v/s Ratio Prot	c0.31			0.29	c0.01	
v/s Ratio Perm			0.04			
v/c Ratio	0.36		0.05	0.33	0.27	
Uniform Delay, d1	1.7		1.2	1.6	64.9	
Progression Factor	0.34		0.95	0.92	1.00	
Incremental Delay, d2	0.3		0.2	0.3	2.0	
Delay (s)	0.9		1.4	1.8	66.9	
Level of Service	A		A	A	E	
Approach Delay (s)	0.9			1.8	66.9	
Approach LOS	A			A	E	

Intersection Summary			
HCM 2000 Control Delay	2.3	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.35		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	12.0
Intersection Capacity Utilization	55.0%	ICU Level of Service	B
Analysis Period (min)	15		

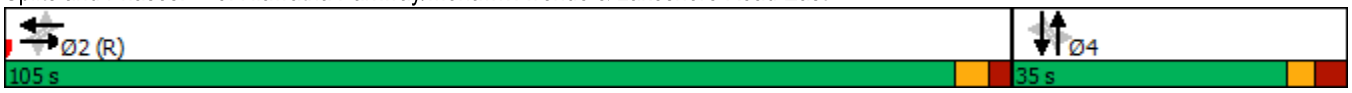
c Critical Lane Group

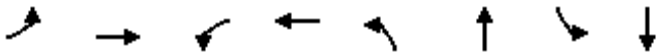
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	14	955	14	21	863	21	45	4	29	153	7	15
Future Volume (vph)	14	955	14	21	863	21	45	4	29	153	7	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	16.0		0.0	15.0		0.0	30.0		0.0	0.0		0.0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (m)	35.0			31.0			30.0			15.0		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		0.99	1.00		0.99	0.97		0.98	0.98	
Frt		0.998			0.996			0.866			0.898	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1687	3460	0	1719	3415	0	1770	1497	0	1787	1605	0
Flt Permitted	0.266			0.237			0.741			0.733		
Satd. Flow (perm)	468	3460	0	427	3415	0	1363	1497	0	1345	1605	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		3			4			33			17	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		234.8			228.8			216.1			35.6	
Travel Time (s)		16.9			16.5			15.6			2.6	
Confl. Peds. (#/hr)	15		11	11		15	10		20	20		10
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	7%	4%	7%	5%	5%	10%	2%	0%	7%	1%	14%	0%
Adj. Flow (vph)	16	1073	16	24	970	24	51	4	33	172	8	17
Shared Lane Traffic (%)												
Lane Group Flow (vph)	16	1089	0	24	994	0	51	37	0	172	25	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.6			3.6			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	31.0	31.0		31.0	31.0		38.5	38.5		38.5	38.5	
Total Split (s)	105.0	105.0		105.0	105.0		35.0	35.0		35.0	35.0	
Total Split (%)	75.0%	75.0%		75.0%	75.0%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)	99.0	99.0		99.0	99.0		28.5	28.5		28.5	28.5	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.5	2.5		2.5	2.5		3.5	3.5		3.5	3.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	15.0	15.0		15.0	15.0		22.0	22.0		22.0	22.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	105.1	105.1		105.1	105.1		22.4	22.4		22.4	22.4	
Actuated g/C Ratio	0.75	0.75		0.75	0.75		0.16	0.16		0.16	0.16	
v/c Ratio	0.05	0.42		0.07	0.39		0.23	0.14		0.80	0.09	
Control Delay	1.9	2.0		6.4	7.1		51.9	17.8		82.0	25.0	
Queue Delay	0.0	0.1		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	1.9	2.1		6.4	7.1		51.9	17.8		82.0	25.0	
LOS	A	A		A	A		D	B		F	C	
Approach Delay		2.1			7.1			37.6			74.8	
Approach LOS		A			A			D			E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 36 (26%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 70			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.80			
Intersection Signal Delay: 11.4		Intersection LOS: B	
Intersection Capacity Utilization 55.7%		ICU Level of Service B	
Analysis Period (min) 15			

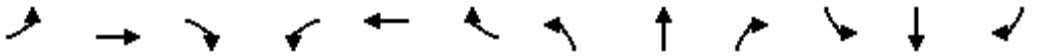
Splits and Phases: 3: Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East





Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	16	1089	24	994	51	37	172	25
v/c Ratio	0.05	0.42	0.07	0.39	0.23	0.14	0.80	0.09
Control Delay	1.9	2.0	6.4	7.1	51.9	17.8	82.0	25.0
Queue Delay	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	1.9	2.1	6.4	7.1	51.9	17.8	82.0	25.0
Queue Length 50th (m)	0.3	13.4	1.7	48.3	13.1	1.0	48.6	2.0
Queue Length 95th (m)	1.1	17.2	5.2	67.9	25.0	10.9	72.0	10.4
Internal Link Dist (m)		210.8		204.8		192.1		11.6
Turn Bay Length (m)	16.0		15.0		30.0			
Base Capacity (vph)	351	2597	320	2564	277	331	273	340
Starvation Cap Reductn	0	363	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.05	0.49	0.07	0.39	0.18	0.11	0.63	0.07

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	14	955	14	21	863	21	45	4	29	153	7	15
Future Volume (vph)	14	955	14	21	863	21	45	4	29	153	7	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00		1.00	0.97		1.00	0.98	
Flpb, ped/bikes	0.99	1.00		0.99	1.00		0.99	1.00		0.98	1.00	
Frt	1.00	1.00		1.00	1.00		1.00	0.87		1.00	0.90	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1672	3459		1710	3417		1747	1497		1743	1605	
Flt Permitted	0.27	1.00		0.24	1.00		0.74	1.00		0.73	1.00	
Satd. Flow (perm)	467	3459		426	3417		1363	1497		1344	1605	
Peak-hour factor, PHF	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	16	1073	16	24	970	24	51	4	33	172	8	17
RTOR Reduction (vph)	0	1	0	0	1	0	0	28	0	0	14	0
Lane Group Flow (vph)	16	1088	0	24	993	0	51	9	0	172	11	0
Confl. Peds. (#/hr)	15		11	11		15	10		20	20		10
Heavy Vehicles (%)	7%	4%	7%	5%	5%	10%	2%	0%	7%	1%	14%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)	105.1	105.1		105.1	105.1		22.4	22.4		22.4	22.4	
Effective Green, g (s)	105.1	105.1		105.1	105.1		22.4	22.4		22.4	22.4	
Actuated g/C Ratio	0.75	0.75		0.75	0.75		0.16	0.16		0.16	0.16	
Clearance Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	350	2596		319	2565		218	239		215	256	
v/s Ratio Prot		c0.31			0.29			0.01			0.01	
v/s Ratio Perm	0.03			0.06			0.04			c0.13		
v/c Ratio	0.05	0.42		0.08	0.39		0.23	0.04		0.80	0.04	
Uniform Delay, d1	4.5	6.3		4.6	6.1		51.3	49.7		56.6	49.7	
Progression Factor	0.28	0.22		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.2	0.5		0.5	0.4		0.6	0.1		18.8	0.1	
Delay (s)	1.5	1.9		5.1	6.6		51.9	49.8		75.5	49.8	
Level of Service	A	A		A	A		D	D		E	D	
Approach Delay (s)		1.9			6.5			51.0			72.2	
Approach LOS		A			A			D			E	

Intersection Summary			
HCM 2000 Control Delay	11.4	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.49		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	12.5
Intersection Capacity Utilization	55.7%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1141	33	82	968	0	96
Future Volume (vph)	1141	33	82	968	0	96
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.996				0.865	
Flt Protected				0.996		
Satd. Flow (prot)	3491	0	0	3455	1565	0
Flt Permitted				0.996		
Satd. Flow (perm)	3491	0	0	3455	1565	0
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		21	21		1	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	3%	3%	5%	4%	0%	5%
Adj. Flow (vph)	1254	36	90	1064	0	105
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1290	0	0	1154	105	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 80.8%		ICU Level of Service D	
Analysis Period (min) 15			

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1141	33	82	968	0	96
Future Volume (Veh/h)	1141	33	82	968	0	96
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (vph)	1254	36	90	1064	0	105
Pedestrians	1			11	21	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	0			1	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.89		0.89	0.89
vC, conflicting volume			1311		2006	677
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1093		1878	378
tC, single (s)			4.2		6.8	7.0
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			83		100	80
cM capacity (veh/h)			537		47	527

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	836	454	445	709	105
Volume Left	0	0	90	0	0
Volume Right	0	36	0	0	105
cSH	1700	1700	537	1700	527
Volume to Capacity	0.49	0.27	0.17	0.42	0.20
Queue Length 95th (m)	0.0	0.0	4.8	0.0	5.9
Control Delay (s)	0.0	0.0	4.8	0.0	13.5
Lane LOS			A		B
Approach Delay (s)	0.0		1.9		13.5
Approach LOS					B

Intersection Summary			
Average Delay	1.4		
Intersection Capacity Utilization	80.8%	ICU Level of Service	D
Analysis Period (min)	15		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1141	33	82	968	0	96
Future Volume (vph)	1141	33	82	968	0	96
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.996					0.850
Flt Protected				0.996		
Satd. Flow (prot)	3491	0	0	3455	1900	1538
Flt Permitted				0.996		
Satd. Flow (perm)	3491	0	0	3455	1900	1538
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		21	21		1	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	3%	3%	5%	4%	0%	5%
Adj. Flow (vph)	1254	36	90	1064	0	105
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1290	0	0	1154	0	105
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	78.2%	ICU Level of Service	D
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1141	33	82	968	0	96
Future Volume (Veh/h)	1141	33	82	968	0	96
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (vph)	1254	36	90	1064	0	105
Pedestrians	1			11	21	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	0			1	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.89		0.89	0.89
vC, conflicting volume			1311		2006	677
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1093		1878	378
tC, single (s)			4.2		6.8	7.0
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			83		100	80
cM capacity (veh/h)			537		47	527

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2
Volume Total	836	454	445	709	0	105
Volume Left	0	0	90	0	0	0
Volume Right	0	36	0	0	0	105
cSH	1700	1700	537	1700	1700	527
Volume to Capacity	0.49	0.27	0.17	0.42	0.20	0.20
Queue Length 95th (m)	0.0	0.0	4.8	0.0	0.0	5.9
Control Delay (s)	0.0	0.0	4.8	0.0	0.0	13.5
Lane LOS			A		A	B
Approach Delay (s)	0.0		1.9		13.5	
Approach LOS					B	

Intersection Summary			
Average Delay	1.4		
Intersection Capacity Utilization	78.2%	ICU Level of Service	D
Analysis Period (min)	15		

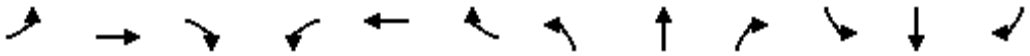
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	3	12	8	1	17	7
Future Volume (vph)	3	12	8	1	17	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt	0.892		0.985			
Flt Protected	0.990					0.966
Satd. Flow (prot)	1678	0	1872	0	0	1835
Flt Permitted	0.990					0.966
Satd. Flow (perm)	1678	0	1872	0	0	1835
Link Speed (k/h)	50		50			50
Link Distance (m)	246.0		102.9			216.2
Travel Time (s)	17.7		7.4			15.6
Confl. Peds. (#/hr)	10	22				
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	6	24	16	2	34	14
Shared Lane Traffic (%)						
Lane Group Flow (vph)	30	0	18	0	0	48
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	3.6		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 23.2%		ICU Level of Service A	
Analysis Period (min) 15			

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	3	12	8	1	17	7
Future Volume (Veh/h)	3	12	8	1	17	7
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50
Hourly flow rate (vph)	6	24	16	2	34	14
Pedestrians			10			22
Lane Width (m)			3.6			3.6
Walking Speed (m/s)			1.2			1.2
Percent Blockage			1			2
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (m)						216
pX, platoon unblocked						
vC, conflicting volume	109	39			18	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	109	39			18	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	98			98	
cM capacity (veh/h)	867	1019			1612	

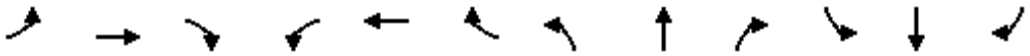
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	30	18	48
Volume Left	6	0	34
Volume Right	24	2	0
cSH	985	1700	1612
Volume to Capacity	0.03	0.01	0.02
Queue Length 95th (m)	0.8	0.0	0.5
Control Delay (s)	8.8	0.0	5.2
Lane LOS	A		A
Approach Delay (s)	8.8	0.0	5.2
Approach LOS	A		

Intersection Summary			
Average Delay	5.3		
Intersection Capacity Utilization	23.2%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	14	4	1	9	2	4	11	2	11	13	4
Future Volume (vph)	2	14	4	1	9	2	4	11	2	11	13	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.973			0.979			0.984			0.981	
Flt Protected		0.995			0.995			0.989			0.981	
Satd. Flow (prot)	0	1839	0	0	1851	0	0	1849	0	0	1652	0
Flt Permitted		0.995			0.995			0.989			0.981	
Satd. Flow (perm)	0	1839	0	0	1851	0	0	1849	0	0	1652	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		246.0			233.0			138.8			216.1	
Travel Time (s)		17.7			16.8			10.0			15.6	
Confl. Peds. (#/hr)	23		5	5		23	14		3	3		14
Peak Hour Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	23%	0%
Adj. Flow (vph)	3	21	6	2	14	3	6	17	3	17	20	6
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	30	0	0	19	0	0	26	0	0	43	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

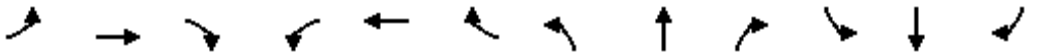
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 22.4%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	2	14	4	1	9	2	4	11	2	11	13	4
Future Volume (vph)	2	14	4	1	9	2	4	11	2	11	13	4
Peak Hour Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Hourly flow rate (vph)	3	21	6	2	14	3	6	17	3	17	20	6

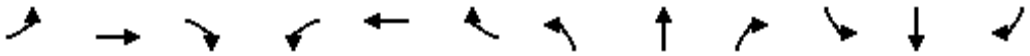
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	30	19	26	43
Volume Left (vph)	3	2	6	17
Volume Right (vph)	6	3	3	6
Hadj (s)	-0.10	-0.07	-0.02	0.18
Departure Headway (s)	4.0	4.0	4.0	4.2
Degree Utilization, x	0.03	0.02	0.03	0.05
Capacity (veh/h)	885	878	870	841
Control Delay (s)	7.1	7.1	7.1	7.4
Approach Delay (s)	7.1	7.1	7.1	7.4
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.2			
Level of Service	A			
Intersection Capacity Utilization	22.4%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	18	0	1	7	29	1	14	0	3	13	5
Future Volume (vph)	9	18	0	1	7	29	1	14	0	3	13	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt					0.893						0.967	
Flt Protected		0.984			0.999			0.998			0.993	
Satd. Flow (prot)	0	1870	0	0	1575	0	0	1778	0	0	1824	0
Flt Permitted		0.984			0.999			0.998			0.993	
Satd. Flow (perm)	0	1870	0	0	1575	0	0	1778	0	0	1824	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		233.0			228.0			131.6			216.1	
Travel Time (s)		16.8			16.4			9.5			15.6	
Confl. Peds. (#/hr)	5		1	1		5	12		14	14		12
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Heavy Vehicles (%)	0%	0%	0%	100%	0%	7%	0%	7%	0%	0%	0%	0%
Adj. Flow (vph)	12	24	0	1	9	39	1	19	0	4	18	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	36	0	0	49	0	0	20	0	0	29	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

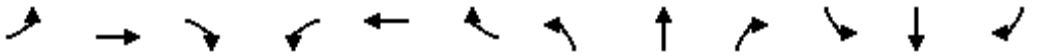
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 19.9%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	9	18	0	1	7	29	1	14	0	3	13	5
Future Volume (vph)	9	18	0	1	7	29	1	14	0	3	13	5
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Hourly flow rate (vph)	12	24	0	1	9	39	1	19	0	4	18	7

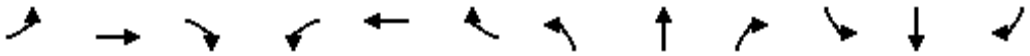
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	36	49	20	29
Volume Left (vph)	12	1	1	4
Volume Right (vph)	0	39	0	7
Hadj (s)	0.07	-0.34	0.12	-0.12
Departure Headway (s)	4.1	3.7	4.2	4.0
Degree Utilization, x	0.04	0.05	0.02	0.03
Capacity (veh/h)	857	955	823	881
Control Delay (s)	7.3	6.9	7.3	7.1
Approach Delay (s)	7.3	6.9	7.3	7.1
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.1			
Level of Service	A			
Intersection Capacity Utilization	19.9%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	8	14	1	1	23	52	5	21	1	69	20	9
Future Volume (vph)	8	14	1	1	23	52	5	21	1	69	20	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.993			0.908			0.994			0.988	
Flt Protected		0.983			0.999			0.991			0.966	
Satd. Flow (prot)	0	1706	0	0	1637	0	0	1868	0	0	1708	0
Flt Permitted		0.983			0.999			0.991			0.966	
Satd. Flow (perm)	0	1706	0	0	1637	0	0	1868	0	0	1708	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		228.0			132.1			169.2			216.1	
Travel Time (s)		16.4			9.5			12.2			15.6	
Confl. Peds. (#/hr)	4		3	3		4	1		18	18		1
Peak Hour Factor	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Heavy Vehicles (%)	13%	7%	0%	0%	4%	6%	1%	0%	0%	3%	10%	22%
Adj. Flow (vph)	13	23	2	2	38	87	8	35	2	115	33	15
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	38	0	0	127	0	0	45	0	0	163	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

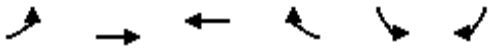
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 25.8%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	8	14	1	1	23	52	5	21	1	69	20	9
Future Volume (vph)	8	14	1	1	23	52	5	21	1	69	20	9
Peak Hour Factor	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Hourly flow rate (vph)	13	23	2	2	38	87	8	35	2	115	33	15

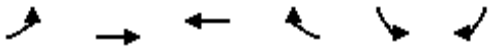
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	38	127	45	163
Volume Left (vph)	13	2	8	115
Volume Right (vph)	2	87	2	15
Hadj (s)	0.18	-0.32	0.01	0.19
Departure Headway (s)	4.7	4.1	4.5	4.5
Degree Utilization, x	0.05	0.15	0.06	0.20
Capacity (veh/h)	712	821	762	760
Control Delay (s)	8.0	7.8	7.7	8.7
Approach Delay (s)	8.0	7.8	7.7	8.7
Approach LOS	A	A	A	A

Intersection Summary			
Delay	8.2		
Level of Service	A		
Intersection Capacity Utilization	25.8%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	117	941	871	13	4	69
Future Volume (vph)	117	941	871	13	4	69
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.998		0.872	
Flt Protected		0.995			0.998	
Satd. Flow (prot)	0	3491	3499	0	1593	0
Flt Permitted		0.995			0.998	
Satd. Flow (perm)	0	3491	3499	0	1593	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		168.4	105.4		179.3	
Travel Time (s)		12.1	7.6		12.9	
Confl. Peds. (#/hr)	40			40	4	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	2%	3%	3%	0%	0%	4%
Adj. Flow (vph)	130	1046	968	14	4	77
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1176	982	0	81	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

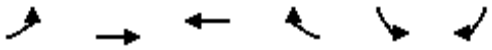
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	68.4%	ICU Level of Service	C
Analysis Period (min)	15		



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	117	941	871	13	4	69
Future Volume (Veh/h)	117	941	871	13	4	69
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	130	1046	968	14	4	77
Pedestrians			4		40	
Lane Width (m)			3.6		3.6	
Walking Speed (m/s)			1.2		1.2	
Percent Blockage			0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)			105			
pX, platoon unblocked	0.88				0.88	0.88
vC, conflicting volume	1022				1802	531
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	765				1646	210
tC, single (s)	4.1				6.8	7.0
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	82				94	89
cM capacity (veh/h)	722				64	675

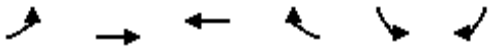
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	479	697	645	337	81
Volume Left	130	0	0	0	4
Volume Right	0	0	0	14	77
cSH	722	1700	1700	1700	460
Volume to Capacity	0.18	0.41	0.38	0.20	0.18
Queue Length 95th (m)	5.2	0.0	0.0	0.0	5.1
Control Delay (s)	4.8	0.0	0.0	0.0	14.5
Lane LOS	A				B
Approach Delay (s)	2.0		0.0		14.5
Approach LOS					B

Intersection Summary			
Average Delay	1.6		
Intersection Capacity Utilization	68.4%	ICU Level of Service	C
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	12	924	808	7	6	25
Future Volume (vph)	12	924	808	7	6	25
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.999		0.890	
Flt Protected		0.999			0.991	
Satd. Flow (prot)	0	3499	3461	0	1676	0
Flt Permitted		0.999			0.991	
Satd. Flow (perm)	0	3499	3461	0	1676	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		99.3	147.4		181.8	
Travel Time (s)		7.1	10.6		13.1	
Confl. Peds. (#/hr)	40			40	1	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	8%	3%	4%	29%	0%	0%
Adj. Flow (vph)	13	963	842	7	6	26
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	976	849	0	32	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	44.0%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	12	924	808	7	6	25
Future Volume (Veh/h)	12	924	808	7	6	25
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Hourly flow rate (vph)	12	962	842	7	6	26
Pedestrians			1		40	
Lane Width (m)			3.6		3.6	
Walking Speed (m/s)			1.2		1.2	
Percent Blockage			0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)		99	148			
pX, platoon unblocked	0.97				0.89	0.97
vC, conflicting volume	889				1392	464
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	814				1014	374
tC, single (s)	4.3				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.3				3.5	3.3
p0 queue free %	98				97	96
cM capacity (veh/h)	720				201	587

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	333	641	561	288	32
Volume Left	12	0	0	0	6
Volume Right	0	0	0	7	26
cSH	720	1700	1700	1700	432
Volume to Capacity	0.02	0.38	0.33	0.17	0.07
Queue Length 95th (m)	0.4	0.0	0.0	0.0	1.9
Control Delay (s)	0.6	0.0	0.0	0.0	14.0
Lane LOS	A				B
Approach Delay (s)	0.2		0.0		14.0
Approach LOS					B

Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	44.0%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection: 6: Cumberland Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	12.0	9.2	9.2	16.0
Average Queue (m)	5.0	2.4	3.8	5.3
95th Queue (m)	12.7	8.9	11.1	14.2
Link Distance (m)	229.0	214.4	130.3	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 7: Hiawatha Parkway & Wanita Road

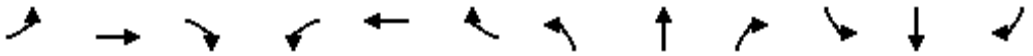
Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	9.3	16.6	17.2	9.2
Average Queue (m)	5.8	6.3	4.1	4.8
95th Queue (m)	12.9	14.2	12.9	12.1
Link Distance (m)	214.4	209.3	123.2	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: Wenonah Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	17.7	23.0	10.3	22.3
Average Queue (m)	5.2	9.4	4.8	10.3
95th Queue (m)	14.0	17.7	12.3	17.8
Link Distance (m)	209.3	123.7	160.8	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

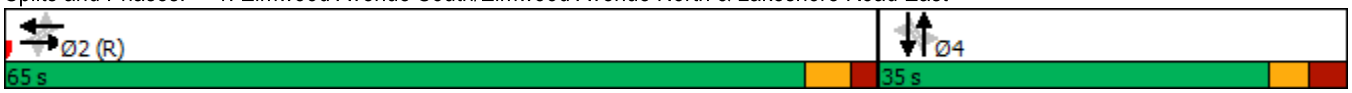


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	15	955	12	2	1133	22	6	2	7	7	1	15
Future Volume (vph)	15	955	12	2	1133	22	6	2	7	7	1	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.98			0.97	
Frt		0.998			0.997			0.937			0.910	
Flt Protected		0.999						0.980			0.986	
Satd. Flow (prot)	0	3561	0	0	3554	0	0	1734	0	0	1647	0
Flt Permitted		0.924			0.954			0.936			0.951	
Satd. Flow (perm)	0	3292	0	0	3391	0	0	1631	0	0	1588	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			3			7			16	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		105.4			99.3			216.2			182.4	
Travel Time (s)		7.6			7.1			15.6			13.1	
Confl. Peds. (#/hr)	58		31	31		58	38		1	1		38
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	16	995	13	2	1180	23	6	2	7	7	1	16
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1024	0	0	1205	0	0	15	0	0	24	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	27.5	27.5		27.5	27.5		35.0	35.0		35.0	35.0	
Total Split (s)	65.0	65.0		65.0	65.0		35.0	35.0		35.0	35.0	
Total Split (%)	65.0%	65.0%		65.0%	65.0%		35.0%	35.0%		35.0%	35.0%	
Maximum Green (s)	59.5	59.5		59.5	59.5		29.0	29.0		29.0	29.0	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		3.0	3.0		3.0	3.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		5.5			5.5			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		Ped	Ped		Ped	Ped	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	12.0	12.0		12.0	12.0		19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		59.5			59.5			29.0			29.0	
Actuated g/C Ratio		0.60			0.60			0.29			0.29	
v/c Ratio		0.52			0.60			0.03			0.05	
Control Delay		13.1			14.2			18.9			15.0	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		13.1			14.2			18.9			15.0	
LOS		B			B			B			B	
Approach Delay		13.1			14.2			18.9			15.0	
Approach LOS		B			B			B			B	

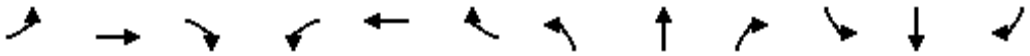
Intersection Summary			
Area Type:	Other		
Cycle Length: 100			
Actuated Cycle Length: 100			
Offset: 64 (64%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.60			
Intersection Signal Delay: 13.7		Intersection LOS: B	
Intersection Capacity Utilization 71.2%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 1: Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East



Lane Group	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	1024	1205	15	24
v/c Ratio	0.52	0.60	0.03	0.05
Control Delay	13.1	14.2	18.9	15.0
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	13.1	14.2	18.9	15.0
Queue Length 50th (m)	59.8	75.2	1.2	1.2
Queue Length 95th (m)	76.7	95.2	6.1	7.3
Internal Link Dist (m)	81.4	75.3	192.2	158.4
Turn Bay Length (m)				
Base Capacity (vph)	1959	2018	477	471
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.52	0.60	0.03	0.05

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	15	955	12	2	1133	22	6	2	7	7	1	15
Future Volume (vph)	15	955	12	2	1133	22	6	2	7	7	1	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5			5.5			6.0			6.0	
Lane Util. Factor		0.95			0.95			1.00			1.00	
Frpb, ped/bikes		1.00			1.00			0.99			0.97	
Flpb, ped/bikes		1.00			1.00			0.98			1.00	
Frt		1.00			1.00			0.94			0.91	
Flt Protected		1.00			1.00			0.98			0.99	
Satd. Flow (prot)		3561			3554			1708			1646	
Flt Permitted		0.92			0.95			0.94			0.95	
Satd. Flow (perm)		3294			3391			1632			1589	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	16	995	12	2	1180	23	6	2	7	7	1	16
RTOR Reduction (vph)	0	1	0	0	1	0	0	5	0	0	11	0
Lane Group Flow (vph)	0	1023	0	0	1204	0	0	10	0	0	13	0
Confl. Peds. (#/hr)	58		31	31		58	38		1	1		38
Heavy Vehicles (%)	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)		59.5			59.5			29.0			29.0	
Effective Green, g (s)		59.5			59.5			29.0			29.0	
Actuated g/C Ratio		0.60			0.60			0.29			0.29	
Clearance Time (s)		5.5			5.5			6.0			6.0	
Vehicle Extension (s)		3.0			3.0			3.0			3.0	
Lane Grp Cap (vph)		1959			2017			473			460	
v/s Ratio Prot												
v/s Ratio Perm		0.31			c0.35			0.01			c0.01	
v/c Ratio		0.52			0.60			0.02			0.03	
Uniform Delay, d1		11.9			12.7			25.4			25.4	
Progression Factor		1.00			1.00			1.00			1.00	
Incremental Delay, d2		1.0			1.3			0.0			0.0	
Delay (s)		12.9			14.0			25.4			25.4	
Level of Service		B			B			C			C	
Approach Delay (s)		12.9			14.0			25.4			25.4	
Approach LOS		B			B			C			C	

Intersection Summary			
HCM 2000 Control Delay	13.7	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.41		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	11.5
Intersection Capacity Utilization	71.2%	ICU Level of Service	C
Analysis Period (min)	15		

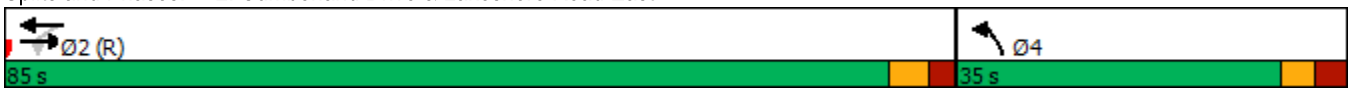
c Critical Lane Group

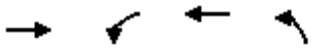
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	917	33	30	1161	37	23
Future Volume (vph)	917	33	30	1161	37	23
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)		0.0	10.0		0.0	0.0
Storage Lanes		0	1		1	0
Taper Length (m)			37.0		7.5	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00		0.99		0.98	
Frt	0.995				0.949	
Flt Protected			0.950		0.970	
Satd. Flow (prot)	3550	0	1805	3574	1732	0
Flt Permitted			0.283		0.970	
Satd. Flow (perm)	3550	0	533	3574	1721	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	6				24	
Link Speed (k/h)	50			50	50	
Link Distance (m)	147.4			234.8	216.1	
Travel Time (s)	10.6			16.9	15.6	
Confl. Peds. (#/hr)		15	15		8	11
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	1%	0%	0%	1%	0%	0%
Adj. Flow (vph)	955	34	31	1209	39	24
Shared Lane Traffic (%)						
Lane Group Flow (vph)	989	0	31	1209	63	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Number of Detectors	2		1	2	1	
Detector Template	Thru		Left	Thru	Left	
Leading Detector (m)	10.0		2.0	10.0	2.0	
Trailing Detector (m)	0.0		0.0	0.0	0.0	
Detector 1 Position(m)	0.0		0.0	0.0	0.0	
Detector 1 Size(m)	0.6		2.0	0.6	2.0	
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	
Detector 2 Position(m)	9.4			9.4		
Detector 2 Size(m)	0.6			0.6		
Detector 2 Type	Cl+Ex			Cl+Ex		
Detector 2 Channel						
Detector 2 Extend (s)	0.0			0.0		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Detector Phase	2		2	2	4	
Switch Phase						
Minimum Initial (s)	10.0		10.0	10.0	10.0	
Minimum Split (s)	26.0		26.0	26.0	35.0	
Total Split (s)	85.0		85.0	85.0	35.0	
Total Split (%)	70.8%		70.8%	70.8%	29.2%	
Maximum Green (s)	79.0		79.0	79.0	29.0	
Yellow Time (s)	3.5		3.5	3.5	3.0	
All-Red Time (s)	2.5		2.5	2.5	3.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.0		6.0	6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	10.0		10.0	10.0	10.0	
Flash Dont Walk (s)	10.0		10.0	10.0	19.0	
Pedestrian Calls (#/hr)	0		0	0	0	
Act Effct Green (s)	102.0		102.0	102.0	10.4	
Actuated g/C Ratio	0.85		0.85	0.85	0.09	
v/c Ratio	0.33		0.07	0.40	0.37	
Control Delay	2.8		1.5	1.5	40.7	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	2.8		1.5	1.5	40.7	
LOS	A		A	A	D	
Approach Delay	2.8			1.5	40.7	
Approach LOS	A			A	D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 120			
Offset: 77 (64%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.40			
Intersection Signal Delay: 3.1		Intersection LOS: A	
Intersection Capacity Utilization 55.3%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Cumberland Drive & Lakeshore Road East





Lane Group	EBT	WBL	WBT	NBL
Lane Group Flow (vph)	989	31	1209	63
v/c Ratio	0.33	0.07	0.40	0.37
Control Delay	2.8	1.5	1.5	40.7
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	2.8	1.5	1.5	40.7
Queue Length 50th (m)	25.4	0.6	13.3	9.2
Queue Length 95th (m)	35.4	1.5	15.1	23.6
Internal Link Dist (m)	123.4		210.8	192.1
Turn Bay Length (m)		10.0		
Base Capacity (vph)	3018	453	3037	436
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.33	0.07	0.40	0.14

Intersection Summary

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	917	33	30	1161	37	23
Future Volume (vph)	917	33	30	1161	37	23
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	6.0	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	0.99	
Flpb, ped/bikes	1.00		0.99	1.00	1.00	
Frt	0.99		1.00	1.00	0.95	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3549		1786	3574	1731	
Flt Permitted	1.00		0.28	1.00	0.97	
Satd. Flow (perm)	3549		532	3574	1731	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	955	34	31	1209	39	24
RTOR Reduction (vph)	1	0	0	0	22	0
Lane Group Flow (vph)	988	0	31	1209	41	0
Confl. Peds. (#/hr)		15	15		8	11
Heavy Vehicles (%)	1%	0%	0%	1%	0%	0%
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Actuated Green, G (s)	99.6		99.6	99.6	8.4	
Effective Green, g (s)	99.6		99.6	99.6	8.4	
Actuated g/C Ratio	0.83		0.83	0.83	0.07	
Clearance Time (s)	6.0		6.0	6.0	6.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	2945		441	2966	121	
v/s Ratio Prot	0.28			c0.34	c0.02	
v/s Ratio Perm			0.06			
v/c Ratio	0.34		0.07	0.41	0.34	
Uniform Delay, d1	2.4		1.8	2.6	53.1	
Progression Factor	1.00		0.51	0.40	1.00	
Incremental Delay, d2	0.3		0.3	0.4	1.6	
Delay (s)	2.7		1.2	1.4	54.8	
Level of Service	A		A	A	D	
Approach Delay (s)	2.7			1.4	54.8	
Approach LOS	A			A	D	

Intersection Summary			
HCM 2000 Control Delay	3.4	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.40		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	12.0
Intersection Capacity Utilization	55.3%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

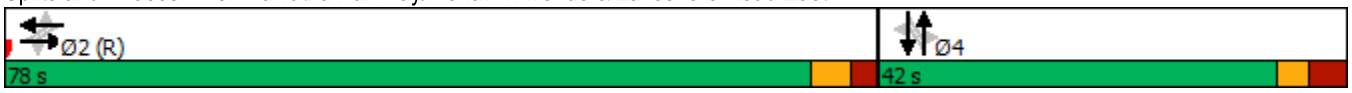
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	22	894	11	27	1053	13	36	3	23	92	5	11
Future Volume (vph)	22	894	11	27	1053	13	36	3	23	92	5	11
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	16.0		0.0	15.0		0.0	30.0		0.0	0.0		0.0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (m)	35.0			31.0			30.0			15.0		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		0.99	1.00		0.99	0.98		0.98	0.99	
Frt		0.998			0.998			0.867			0.894	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	3565	0	1736	3530	0	1805	1550	0	1805	1674	0
Flt Permitted	0.235			0.286			0.746			0.740		
Satd. Flow (perm)	443	3565	0	519	3530	0	1405	1550	0	1385	1674	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			2			24			12	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		234.8			228.8			216.1			35.6	
Travel Time (s)		16.9			16.5			15.6			2.6	
Confl. Peds. (#/hr)	23		15	15		23	8		14	14		8
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	0%	1%	0%	4%	2%	0%	0%	33%	0%	0%	0%	0%
Adj. Flow (vph)	23	941	12	28	1108	14	38	3	24	97	5	12
Shared Lane Traffic (%)												
Lane Group Flow (vph)	23	953	0	28	1122	0	38	27	0	97	17	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.6			3.6			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

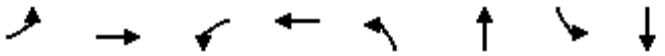
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	31.0	31.0		31.0	31.0		38.5	38.5		38.5	38.5	
Total Split (s)	78.0	78.0		78.0	78.0		42.0	42.0		42.0	42.0	
Total Split (%)	65.0%	65.0%		65.0%	65.0%		35.0%	35.0%		35.0%	35.0%	
Maximum Green (s)	72.0	72.0		72.0	72.0		35.5	35.5		35.5	35.5	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.5	2.5		2.5	2.5		3.5	3.5		3.5	3.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	15.0	15.0		15.0	15.0		22.0	22.0		22.0	22.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	93.3	93.3		93.3	93.3		14.2	14.2		14.2	14.2	
Actuated g/C Ratio	0.78	0.78		0.78	0.78		0.12	0.12		0.12	0.12	
v/c Ratio	0.07	0.34		0.07	0.41		0.23	0.13		0.59	0.08	
Control Delay	4.3	4.3		4.4	5.2		49.6	19.6		64.2	26.1	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	4.3	4.3		4.4	5.2		49.6	19.6		64.2	26.1	
LOS	A	A		A	A		D	B		E	C	
Approach Delay		4.3			5.2			37.1			58.5	
Approach LOS		A			A			D			E	

Intersection Summary

Area Type: Other
Cycle Length: 120
Actuated Cycle Length: 120
Offset: 72 (60%), Referenced to phase 2:EBWB and 6:, Start of Green
Natural Cycle: 70
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 0.59
Intersection Signal Delay: 8.3 Intersection LOS: A
Intersection Capacity Utilization 55.3% ICU Level of Service B
Analysis Period (min) 15

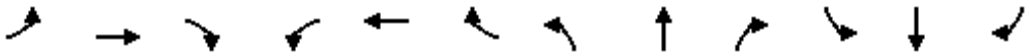
Splits and Phases: 3: Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East





Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	23	953	28	1122	38	27	97	17
v/c Ratio	0.07	0.34	0.07	0.41	0.23	0.13	0.59	0.08
Control Delay	4.3	4.3	4.4	5.2	49.6	19.6	64.2	26.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	4.3	4.3	4.4	5.2	49.6	19.6	64.2	26.1
Queue Length 50th (m)	1.1	30.2	1.3	39.0	8.7	0.7	23.2	1.1
Queue Length 95th (m)	3.7	36.8	4.6	61.7	19.0	9.3	39.8	7.9
Internal Link Dist (m)		210.8		204.8		192.1		11.6
Turn Bay Length (m)	16.0		15.0		30.0			
Base Capacity (vph)	344	2771	403	2744	415	475	409	503
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.07	0.34	0.07	0.41	0.09	0.06	0.24	0.03

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	22	894	11	27	1053	13	36	3	23	92	5	11
Future Volume (vph)	22	894	11	27	1053	13	36	3	23	92	5	11
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00		1.00	0.98		1.00	0.99	
Flpb, ped/bikes	0.99	1.00		0.99	1.00		0.99	1.00		0.98	1.00	
Frt	1.00	1.00		1.00	1.00		1.00	0.87		1.00	0.89	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1787	3565		1720	3530		1789	1550		1778	1674	
Flt Permitted	0.23	1.00		0.29	1.00		0.75	1.00		0.74	1.00	
Satd. Flow (perm)	441	3565		519	3530		1406	1550		1384	1674	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	23	941	12	28	1108	14	38	3	24	97	5	12
RTOR Reduction (vph)	0	0	0	0	0	0	0	21	0	0	11	0
Lane Group Flow (vph)	23	953	0	28	1122	0	38	6	0	97	6	0
Confl. Peds. (#/hr)	23		15	15		23	8		14	14		8
Heavy Vehicles (%)	0%	1%	0%	4%	2%	0%	0%	33%	0%	0%	0%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)	93.3	93.3		93.3	93.3		14.2	14.2		14.2	14.2	
Effective Green, g (s)	93.3	93.3		93.3	93.3		14.2	14.2		14.2	14.2	
Actuated g/C Ratio	0.78	0.78		0.78	0.78		0.12	0.12		0.12	0.12	
Clearance Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	342	2771		403	2744		166	183		163	198	
v/s Ratio Prot		0.27			c0.32			0.00			0.00	
v/s Ratio Perm	0.05			0.05			0.03			c0.07		
v/c Ratio	0.07	0.34		0.07	0.41		0.23	0.03		0.60	0.03	
Uniform Delay, d1	3.1	4.1		3.1	4.4		47.9	46.8		50.2	46.8	
Progression Factor	0.97	0.91		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.4	0.3		0.3	0.5		0.7	0.1		5.7	0.1	
Delay (s)	3.4	4.0		3.5	4.8		48.6	46.9		55.9	46.9	
Level of Service	A	A		A	A		D	D		E	D	
Approach Delay (s)		4.0			4.8			47.9			54.6	
Approach LOS		A			A			D			D	

Intersection Summary			
HCM 2000 Control Delay	8.1	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.43		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	12.5
Intersection Capacity Utilization	55.3%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	976	20	76	1148	4	71
Future Volume (vph)	976	20	76	1148	4	71
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.997				0.872	
Flt Protected				0.997	0.998	
Satd. Flow (prot)	3564	0	0	3531	1653	0
Flt Permitted				0.997	0.998	
Satd. Flow (perm)	3564	0	0	3531	1653	0
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		35	35		9	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	1%	0%	1%	2%	0%	0%
Adj. Flow (vph)	1038	21	81	1221	4	76
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1059	0	0	1302	80	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	76.6%	ICU Level of Service	D
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	976	20	76	1148	4	71
Future Volume (Veh/h)	976	20	76	1148	4	71
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	1038	21	81	1221	4	76
Pedestrians	9			1	35	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	1			0	3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.92		0.92	0.92
vC, conflicting volume			1094		1865	566
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			939		1773	368
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			88		93	87
cM capacity (veh/h)			657		59	570

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	692	367	488	814	80
Volume Left	0	0	81	0	4
Volume Right	0	21	0	0	76
cSH	1700	1700	657	1700	398
Volume to Capacity	0.41	0.22	0.12	0.48	0.20
Queue Length 95th (m)	0.0	0.0	3.4	0.0	5.9
Control Delay (s)	0.0	0.0	3.4	0.0	16.3
Lane LOS			A		C
Approach Delay (s)	0.0		1.3		16.3
Approach LOS					C

Intersection Summary			
Average Delay	1.2		
Intersection Capacity Utilization	76.6%	ICU Level of Service	D
Analysis Period (min)	15		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	976	20	76	1148	4	71
Future Volume (vph)	976	20	76	1148	4	71
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.997					0.850
Flt Protected				0.997	0.950	
Satd. Flow (prot)	3564	0	0	3531	1805	1615
Flt Permitted				0.997	0.950	
Satd. Flow (perm)	3564	0	0	3531	1805	1615
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		35	35		9	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	1%	0%	1%	2%	0%	0%
Adj. Flow (vph)	1038	21	81	1221	4	76
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1059	0	0	1302	4	76
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	75.3%	ICU Level of Service	D
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	976	20	76	1148	4	71
Future Volume (Veh/h)	976	20	76	1148	4	71
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	1038	21	81	1221	4	76
Pedestrians	9			1	35	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	1			0	3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.92		0.92	0.92
vC, conflicting volume			1094		1865	566
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			939		1773	368
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			88		93	87
cM capacity (veh/h)			657		59	570

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2
Volume Total	692	367	488	814	4	76
Volume Left	0	0	81	0	4	0
Volume Right	0	21	0	0	0	76
cSH	1700	1700	657	1700	59	570
Volume to Capacity	0.41	0.22	0.12	0.48	0.07	0.13
Queue Length 95th (m)	0.0	0.0	3.4	0.0	1.7	3.7
Control Delay (s)	0.0	0.0	3.4	0.0	70.1	12.3
Lane LOS			A		F	B
Approach Delay (s)	0.0		1.3		15.2	
Approach LOS					C	

Intersection Summary			
Average Delay	1.2		
Intersection Capacity Utilization	75.3%	ICU Level of Service	D
Analysis Period (min)	15		

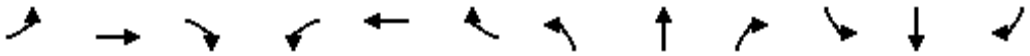
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	2	16	2	0	15	4
Future Volume (vph)	2	16	2	0	15	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt	0.882					
Flt Protected	0.994					0.962
Satd. Flow (prot)	1666	0	1900	0	0	1828
Flt Permitted	0.994					0.962
Satd. Flow (perm)	1666	0	1900	0	0	1828
Link Speed (k/h)	50		50			50
Link Distance (m)	246.0		102.9			216.2
Travel Time (s)	17.7		7.4			15.6
Confl. Peds. (#/hr)	6	29				
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	4	28	4	0	26	7
Shared Lane Traffic (%)						
Lane Group Flow (vph)	32	0	4	0	0	33
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	3.6		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 23.9%		ICU Level of Service A	
Analysis Period (min) 15			

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	2	16	2	0	15	4
Future Volume (Veh/h)	2	16	2	0	15	4
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Hourly flow rate (vph)	4	28	4	0	26	7
Pedestrians			6			29
Lane Width (m)			3.6			3.6
Walking Speed (m/s)			1.2			1.2
Percent Blockage			1			2
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (m)						216
pX, platoon unblocked						
vC, conflicting volume	69	33			4	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	69	33			4	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	97			98	
cM capacity (veh/h)	921	1021			1631	

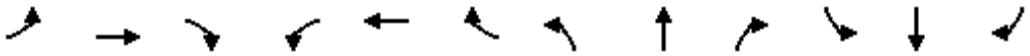
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	32	4	33
Volume Left	4	0	26
Volume Right	28	0	0
cSH	1007	1700	1631
Volume to Capacity	0.03	0.00	0.02
Queue Length 95th (m)	0.8	0.0	0.4
Control Delay (s)	8.7	0.0	5.7
Lane LOS	A		A
Approach Delay (s)	8.7	0.0	5.7
Approach LOS	A		

Intersection Summary			
Average Delay	6.8		
Intersection Capacity Utilization	23.9%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	11	9	4	1	4	8	3	7	2	8	15	9
Future Volume (vph)	11	9	4	1	4	8	3	7	2	8	15	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.979			0.913			0.975			0.962	
Flt Protected		0.977			0.997			0.988			0.987	
Satd. Flow (prot)	0	1744	0	0	1729	0	0	1697	0	0	1649	0
Flt Permitted		0.977			0.997			0.988			0.987	
Satd. Flow (perm)	0	1744	0	0	1729	0	0	1697	0	0	1649	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		246.0			233.0			138.8			216.1	
Travel Time (s)		17.7			16.8			10.0			15.6	
Confl. Peds. (#/hr)	22		1	1		22	22		1	1		22
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles (%)	9%	0%	0%	0%	0%	0%	0%	14%	0%	13%	13%	0%
Adj. Flow (vph)	15	12	5	1	5	11	4	9	3	11	20	12
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	32	0	0	17	0	0	16	0	0	43	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 23.7%		ICU Level of Service A	
Analysis Period (min) 15			



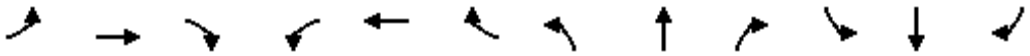
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	11	9	4	1	4	8	3	7	2	8	15	9
Future Volume (vph)	11	9	4	1	4	8	3	7	2	8	15	9
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Hourly flow rate (vph)	15	12	5	1	5	11	4	9	3	11	20	12

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	32	17	16	43
Volume Left (vph)	15	1	4	11
Volume Right (vph)	5	11	3	12
Hadj (s)	0.07	-0.38	0.07	0.04
Departure Headway (s)	4.1	3.7	4.1	4.1
Degree Utilization, x	0.04	0.02	0.02	0.05
Capacity (veh/h)	856	955	851	871
Control Delay (s)	7.3	6.7	7.2	7.3
Approach Delay (s)	7.3	6.7	7.2	7.3
Approach LOS	A	A	A	A

Intersection Summary				
Delay			7.2	
Level of Service			A	
Intersection Capacity Utilization			23.7%	ICU Level of Service
Analysis Period (min)			15	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	14	3	1	11	23	1	15	0	7	14	4
Future Volume (vph)	2	14	3	1	11	23	1	15	0	7	14	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.979			0.910						0.977	
Flt Protected		0.994			0.999			0.998			0.986	
Satd. Flow (prot)	0	1748	0	0	1727	0	0	1896	0	0	1633	0
Flt Permitted		0.994			0.999			0.998			0.986	
Satd. Flow (perm)	0	1748	0	0	1727	0	0	1896	0	0	1633	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		233.0			228.0			131.6			216.1	
Travel Time (s)		16.8			16.4			9.5			15.6	
Confl. Peds. (#/hr)	6		1	1		6	9		3	3		9
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Heavy Vehicles (%)	50%	0%	0%	0%	0%	0%	0%	0%	0%	29%	7%	0%
Adj. Flow (vph)	3	19	4	1	15	32	1	21	0	10	19	6
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	26	0	0	48	0	0	22	0	0	35	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

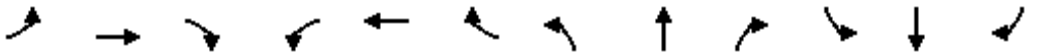
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	18.0%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	2	14	3	1	11	23	1	15	0	7	14	4
Future Volume (vph)	2	14	3	1	11	23	1	15	0	7	14	4
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Hourly flow rate (vph)	3	19	4	1	15	32	1	21	0	10	19	6

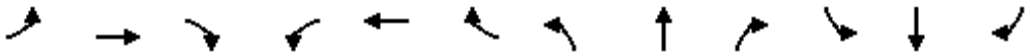
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	26	48	22	35
Volume Left (vph)	3	1	1	10
Volume Right (vph)	4	32	0	6
Hadj (s)	0.03	-0.40	0.01	0.16
Departure Headway (s)	4.1	3.7	4.1	4.2
Degree Utilization, x	0.03	0.05	0.03	0.04
Capacity (veh/h)	859	964	851	831
Control Delay (s)	7.2	6.8	7.2	7.4
Approach Delay (s)	7.2	6.8	7.2	7.4
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.1			
Level of Service	A			
Intersection Capacity Utilization	18.0%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	11	13	1	1	27	32	1	27	2	32	37	9
Future Volume (vph)	11	13	1	1	27	32	1	27	2	32	37	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.996			0.928			0.991			0.984	
Flt Protected		0.978			0.999			0.999			0.980	
Satd. Flow (prot)	0	1714	0	0	1761	0	0	1815	0	0	1832	0
Flt Permitted		0.978			0.999			0.999			0.980	
Satd. Flow (perm)	0	1714	0	0	1761	0	0	1815	0	0	1832	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		228.0			132.1			169.2			216.1	
Travel Time (s)		16.4			9.5			12.2			15.6	
Confl. Peds. (#/hr)	5		2	2		5			11	11		
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Heavy Vehicles (%)	18%	0%	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%
Adj. Flow (vph)	16	19	1	1	39	46	1	39	3	46	53	13
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	36	0	0	86	0	0	43	0	0	112	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

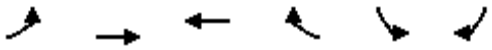
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 26.0%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	11	13	1	1	27	32	1	27	2	32	37	9
Future Volume (vph)	11	13	1	1	27	32	1	27	2	32	37	9
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Hourly flow rate (vph)	16	19	1	1	39	46	1	39	3	46	53	13

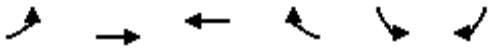
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	36	86	43	112
Volume Left (vph)	16	1	1	46
Volume Right (vph)	1	46	3	13
Hadj (s)	0.21	-0.32	0.02	0.01
Departure Headway (s)	4.5	4.0	4.3	4.2
Degree Utilization, x	0.05	0.09	0.05	0.13
Capacity (veh/h)	759	869	799	826
Control Delay (s)	7.8	7.4	7.5	7.9
Approach Delay (s)	7.8	7.4	7.5	7.9
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.6			
Level of Service	A			
Intersection Capacity Utilization	26.0%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	25	969	1084	20	5	35
Future Volume (vph)	25	969	1084	20	5	35
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.997		0.881	
Flt Protected		0.999			0.994	
Satd. Flow (prot)	0	3534	3564	0	1664	0
Flt Permitted		0.999			0.994	
Satd. Flow (perm)	0	3534	3564	0	1664	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		168.4	105.4		179.3	
Travel Time (s)		12.1	7.6		12.9	
Confl. Peds. (#/hr)	34			34	4	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	4%	2%	1%	0%	0%	0%
Adj. Flow (vph)	26	1020	1141	21	5	37
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1046	1162	0	42	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	100			100	100	100
Sign Control		Free	Free		Stop	

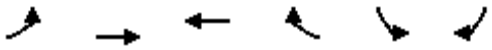
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 55.1%		ICU Level of Service B	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	25	969	1084	20	5	35
Future Volume (Veh/h)	25	969	1084	20	5	35
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	26	1020	1141	21	5	37
Pedestrians		1	4		34	
Lane Width (m)		3.6	3.6		3.6	
Walking Speed (m/s)		1.2	1.2		1.2	
Percent Blockage		0	0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)			105			
pX, platoon unblocked	0.79				0.79	0.79
vC, conflicting volume	1196				1752	616
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	720				1422	0
tC, single (s)	4.2				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	96				95	96
cM capacity (veh/h)	665				95	838

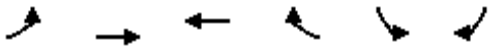
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	366	680	761	401	42
Volume Left	26	0	0	0	5
Volume Right	0	0	0	21	37
cSH	665	1700	1700	1700	435
Volume to Capacity	0.04	0.40	0.45	0.24	0.10
Queue Length 95th (m)	1.0	0.0	0.0	0.0	2.6
Control Delay (s)	1.2	0.0	0.0	0.0	14.2
Lane LOS	A				B
Approach Delay (s)	0.4		0.0		14.2
Approach LOS					B

Intersection Summary			
Average Delay	0.5		
Intersection Capacity Utilization	55.1%	ICU Level of Service	B
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	23	906	1029	32	7	33
Future Volume (vph)	23	906	1029	32	7	33
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.995		0.890	
Flt Protected		0.999			0.991	
Satd. Flow (prot)	0	3537	3592	0	1636	0
Flt Permitted		0.999			0.991	
Satd. Flow (perm)	0	3537	3592	0	1636	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		99.3	147.4		181.8	
Travel Time (s)		7.1	10.6		13.1	
Confl. Peds. (#/hr)	25			25	2	4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	2%	0%	0%	0%	3%
Adj. Flow (vph)	25	985	1118	35	8	36
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1010	1153	0	44	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	100			100	100	100
Sign Control		Free	Free		Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 52.8%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	23	906	1029	32	7	33
Future Volume (Veh/h)	23	906	1029	32	7	33
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	25	985	1118	35	8	36
Pedestrians		4	2		25	
Lane Width (m)		3.6	3.6		3.6	
Walking Speed (m/s)		1.2	1.2		1.2	
Percent Blockage		0	0		2	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)		99	148			
pX, platoon unblocked	0.92				0.88	0.92
vC, conflicting volume	1178				1705	606
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1010				1092	384
tC, single (s)	4.1				6.8	7.0
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	96				95	93
cM capacity (veh/h)	622				175	546

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	353	657	745	408	44
Volume Left	25	0	0	0	8
Volume Right	0	0	0	35	36
cSH	622	1700	1700	1700	394
Volume to Capacity	0.04	0.39	0.44	0.24	0.11
Queue Length 95th (m)	1.0	0.0	0.0	0.0	3.0
Control Delay (s)	1.3	0.0	0.0	0.0	15.3
Lane LOS	A				C
Approach Delay (s)	0.5		0.0		15.3
Approach LOS					C

Intersection Summary			
Average Delay	0.5		
Intersection Capacity Utilization	52.8%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection: 6: Cumberland Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	14.8	9.3	14.2	19.6
Average Queue (m)	5.0	3.1	2.9	6.9
95th Queue (m)	13.3	10.0	10.4	16.4
Link Distance (m)	229.0	214.4	130.3	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 7: Hiawatha Parkway & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	12.7	9.3	10.5	18.1
Average Queue (m)	4.4	5.9	3.7	5.8
95th Queue (m)	12.3	12.8	11.2	14.9
Link Distance (m)	214.4	209.3	123.2	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: Wenonah Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	16.3	12.1	15.2	12.2
Average Queue (m)	5.2	7.8	6.5	8.3
95th Queue (m)	13.7	13.7	13.9	13.6
Link Distance (m)	209.3	123.7	160.8	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

Appendix C

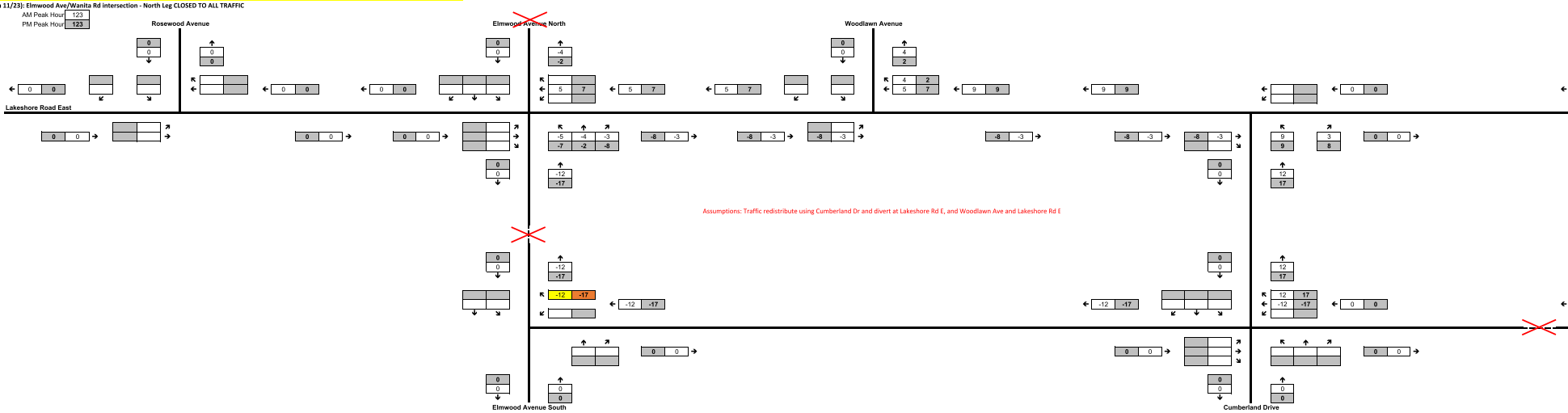
Traffic Redistribution and Adjustments

2024 Redistribution Updated due to new additional closure of SB approach at Elmwood Ave N and Lakeshore Rd E

WBR at Elmwood Av S and Wanita Rd Checked

ASoo (Jan 11/23): Elmwood Ave/Wanita Rd intersection - North Leg CLOSED TO ALL TRAFFIC

AM Peak Hour 123
PM Peak Hour **123**

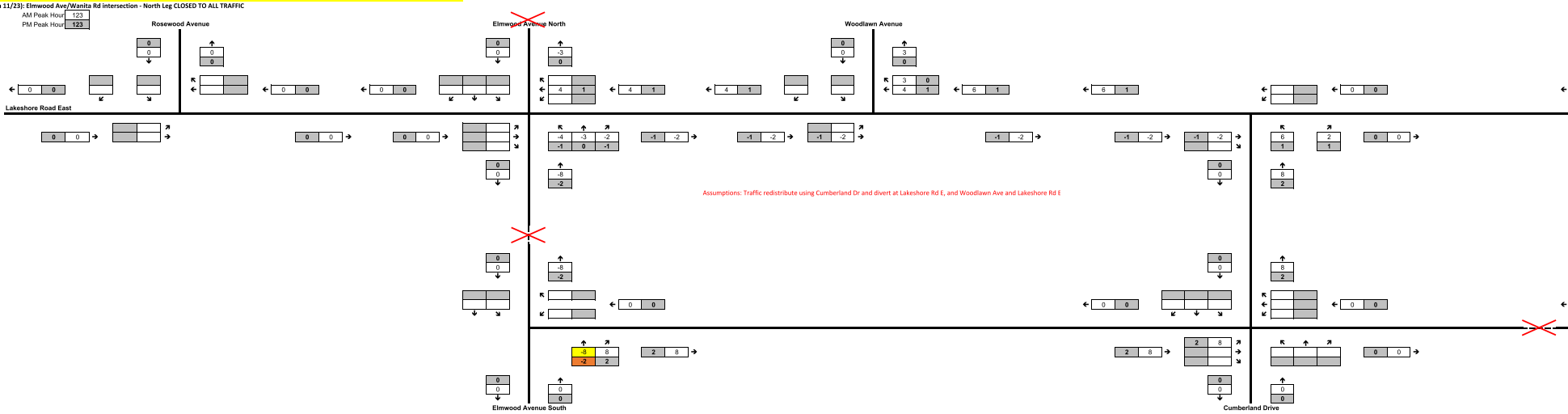


2024 Redistribution Updated due to new additional closure of SB approach at Elmwood Ave N and Lakeshore Rd E

NBT at Elmwood Av S and Wanita Rd Checked

ASoo (Jan 11/23): Elmwood Ave/Wanita Rd intersection - North Leg CLOSED TO ALL TRAFFIC

AM Peak Hour 123
PM Peak Hour **123**

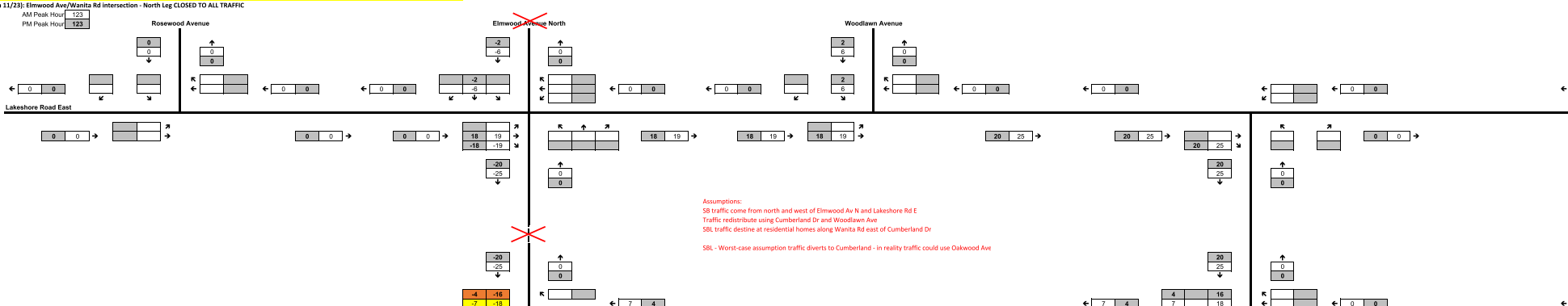


2024 Redistribution Updated due to new additional closure of SB approach at Elmwood Ave N and Lakeshore Rd E

SBL and SBT at Elmwood Av S and Wanita Rd Checked

ASoo (Jan 11/23): Elmwood Ave/Wanita Rd intersection - North Leg CLOSED TO ALL TRAFFIC

AM Peak Hour 123
PM Peak Hour **123**



2024 Redistribution

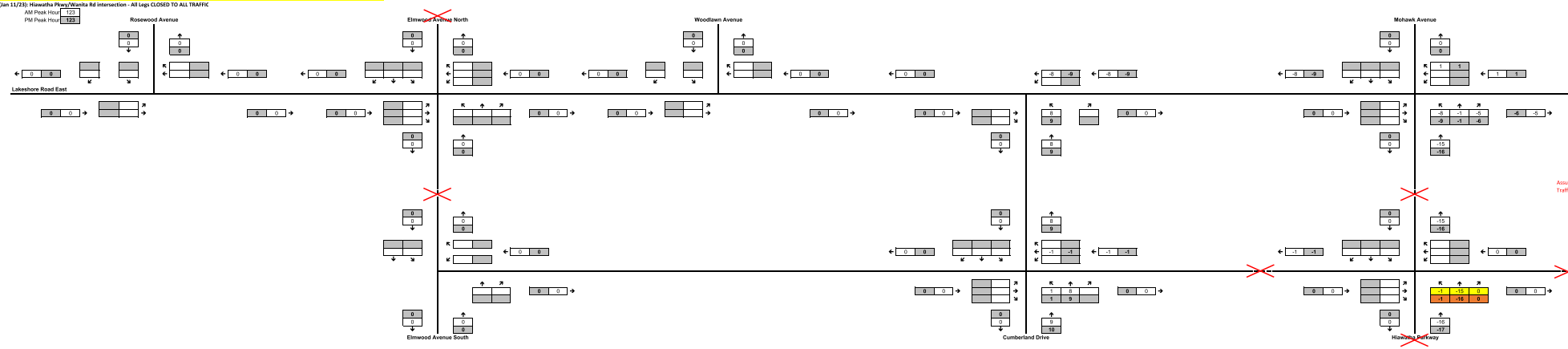
NB at Wanita Rd and Hiawatha Pkwy

ASoo (Jan 11/23): Hiawatha Pkwy/Wanita Rd intersection - All Legs CLOSED TO ALL TRAFFIC

AM Peak Hour 123

PM Peak Hour 123

Checked



2024 Redistribution

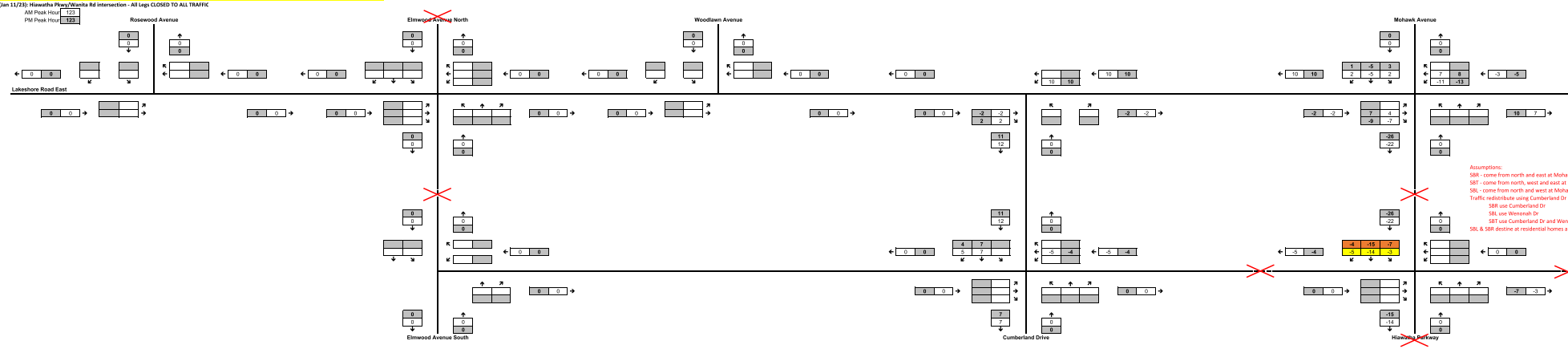
SB at Wanita Rd and Hiawatha Pkwy

ASoo (Jan 11/23): Hiawatha Pkwy/Wanita Rd intersection - All Legs CLOSED TO ALL TRAFFIC

AM Peak Hour 123

PM Peak Hour 123

Checked



2024 Redistribution

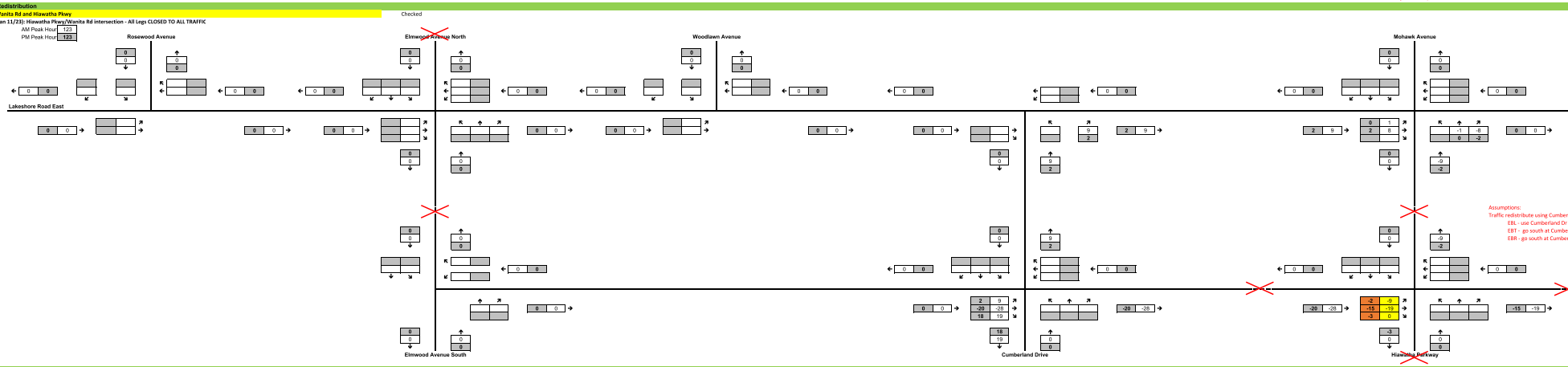
EB at Wanita Rd and Hiawatha Pkwy

ASoo (Jan 11/23): Hiawatha Pkwy/Wanita Rd intersection - All Legs CLOSED TO ALL TRAFFIC

AM Peak Hour 123

PM Peak Hour 123

Checked



2024 Redistribution

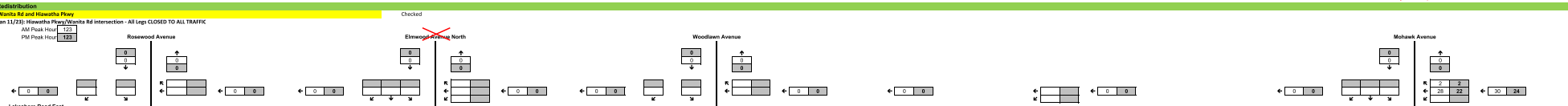
WB at Wanita Rd and Hiawatha Pkwy

ASoo (Jan 11/23): Hiawatha Pkwy/Wanita Rd intersection - All Legs CLOSED TO ALL TRAFFIC

AM Peak Hour 123

PM Peak Hour 123

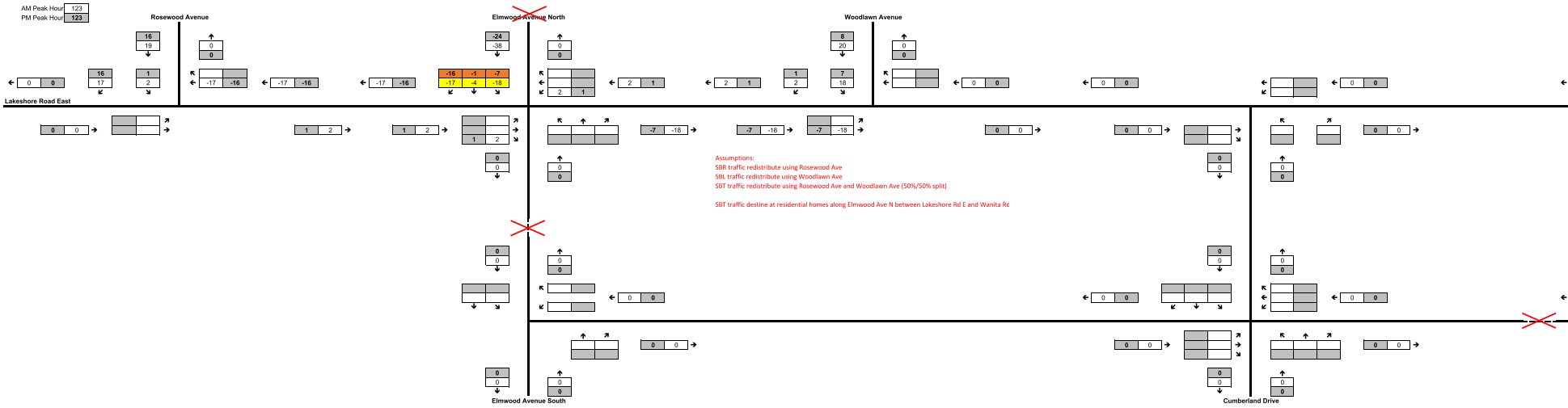
Checked



2024 Redistribution

SB at Elmwood Ave N and Lakeshore Rd E

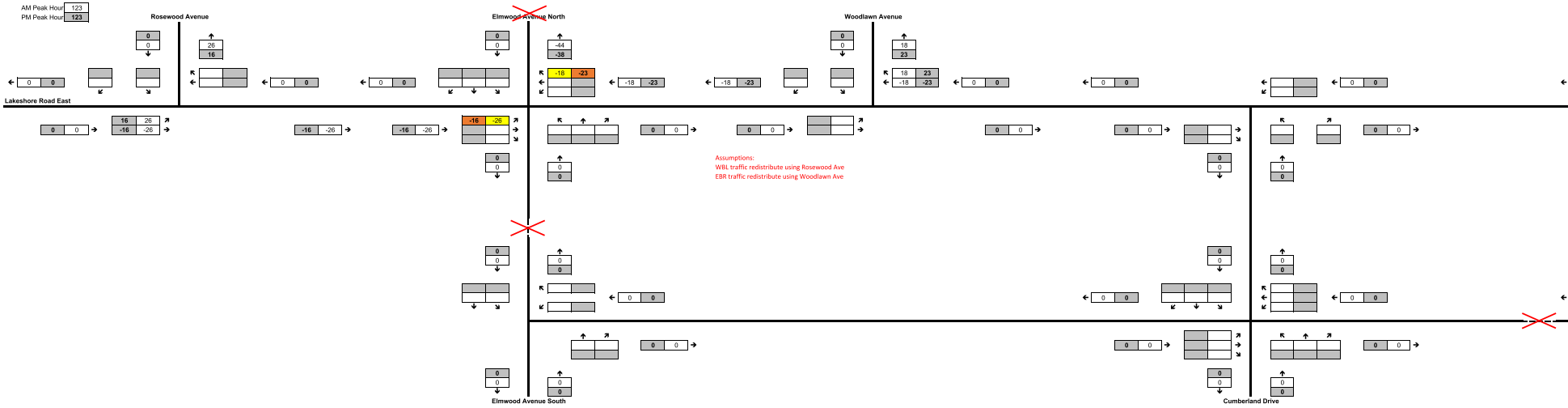
Checked



2024 Redistribution

EBL and WBR at Elmwood Ave N and Lakeshore Rd E

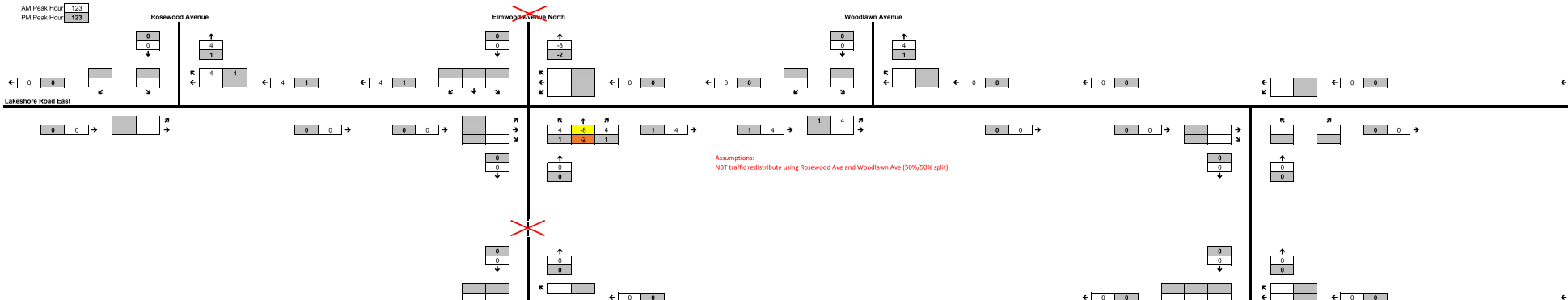
Checked



2024 Redistribution

NBT at Elmwood Ave N and Lakeshore Rd E

Checked

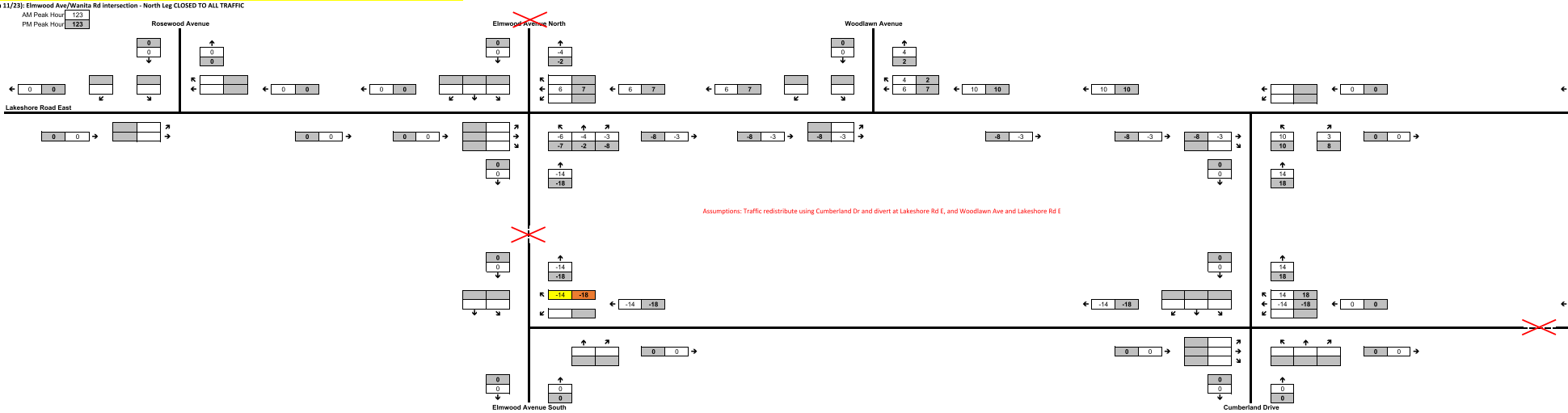


2028 Redistribution Updated due to new additional closure of SB approach at Elmwood Ave N and Lakeshore Rd E

WBR at Elmwood Av S and Wanita Rd Checked

ASoo (Jan 11/23): Elmwood Ave/Wanita Rd intersection - North Leg CLOSED TO ALL TRAFFIC

AM Peak Hour 123
PM Peak Hour 123

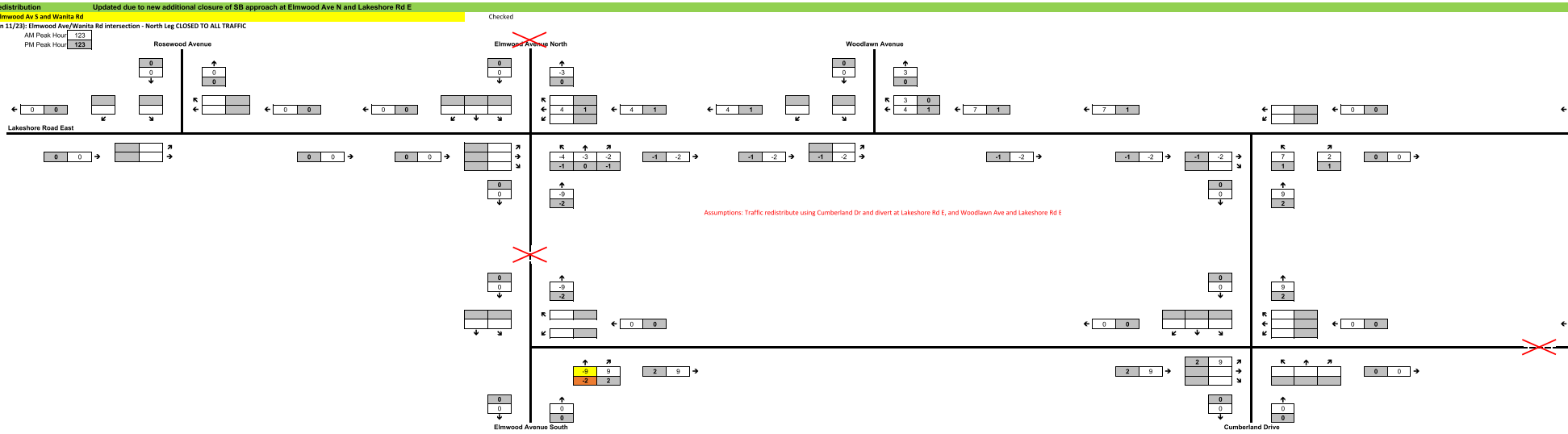


2028 Redistribution Updated due to new additional closure of SB approach at Elmwood Ave N and Lakeshore Rd E

NBT at Elmwood Av S and Wanita Rd Checked

ASoo (Jan 11/23): Elmwood Ave/Wanita Rd intersection - North Leg CLOSED TO ALL TRAFFIC

AM Peak Hour 123
PM Peak Hour 123

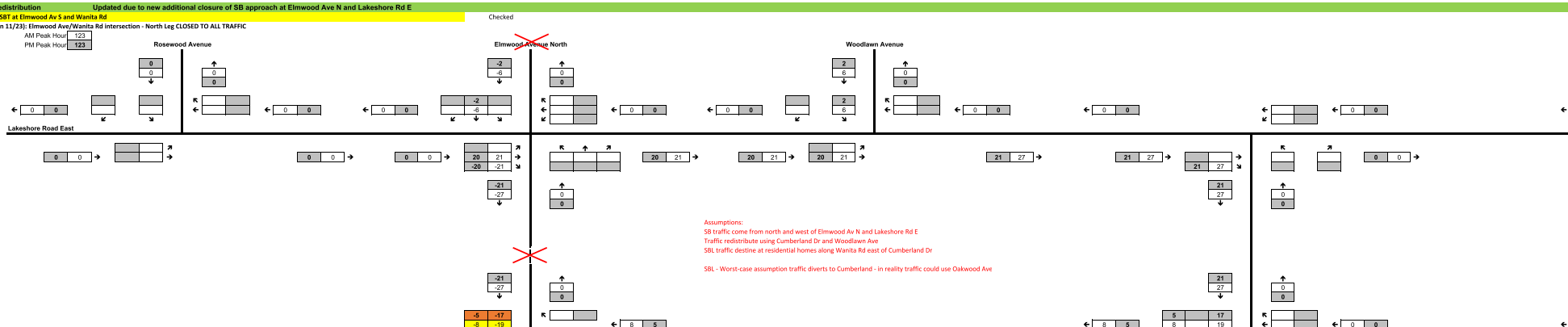


2028 Redistribution Updated due to new additional closure of SB approach at Elmwood Ave N and Lakeshore Rd E

SBL and SBT at Elmwood Av S and Wanita Rd Checked

ASoo (Jan 11/23): Elmwood Ave/Wanita Rd intersection - North Leg CLOSED TO ALL TRAFFIC

AM Peak Hour 123
PM Peak Hour 123



2028 Redistribution

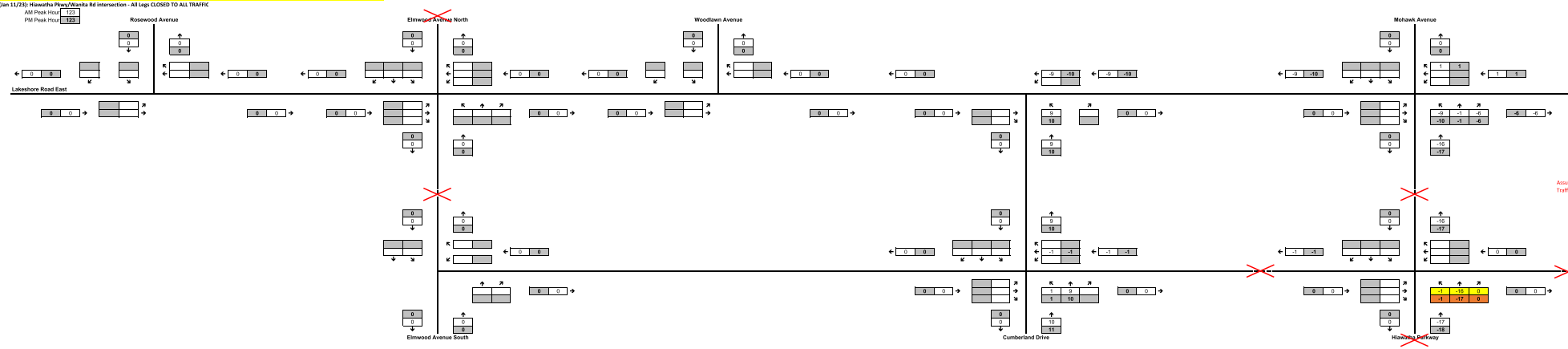
NB at Wanita Rd and Hiawatha Pkwy

Checked

ASoo (Jan 11/23): Hiawatha Pkwy/Wanita Rd intersection - All Legs CLOSED TO ALL TRAFFIC

AM Peak Hour 123

PM Peak Hour 123



2028 Redistribution

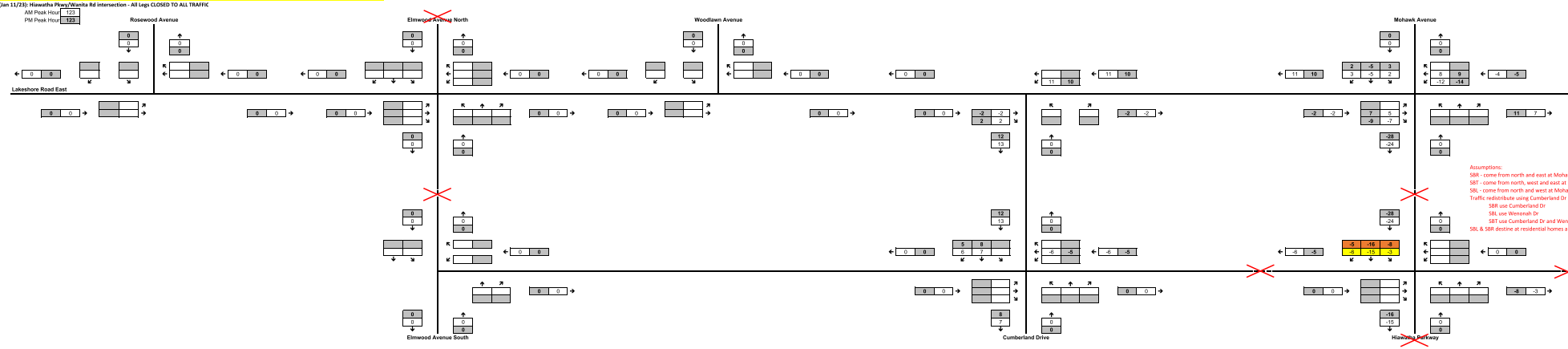
SB at Wanita Rd and Hiawatha Pkwy

Checked

ASoo (Jan 11/23): Hiawatha Pkwy/Wanita Rd intersection - All Legs CLOSED TO ALL TRAFFIC

AM Peak Hour 123

PM Peak Hour 123



2028 Redistribution

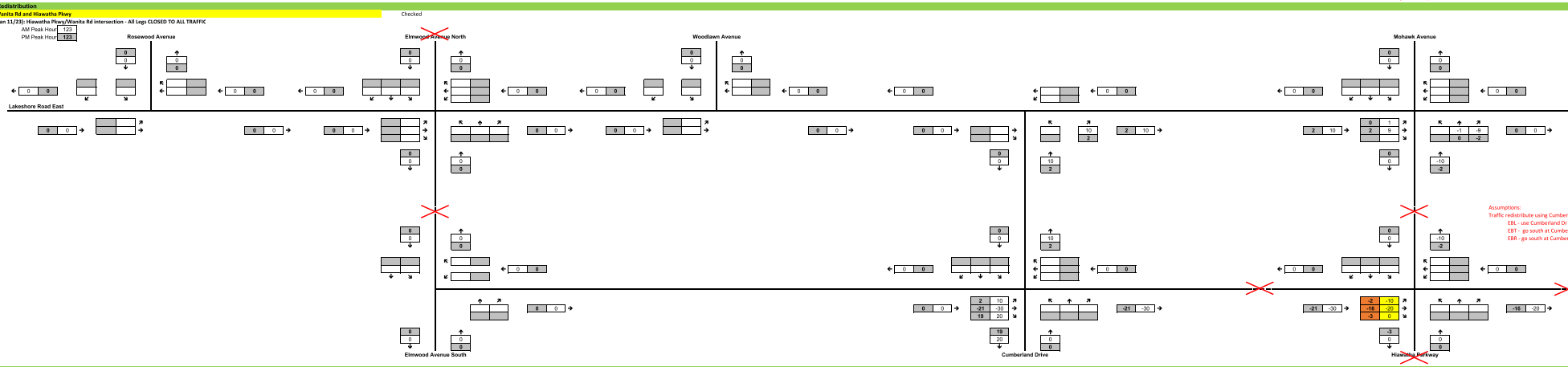
EB at Wanita Rd and Hiawatha Pkwy

Checked

ASoo (Jan 11/23): Hiawatha Pkwy/Wanita Rd intersection - All Legs CLOSED TO ALL TRAFFIC

AM Peak Hour 123

PM Peak Hour 123



2028 Redistribution

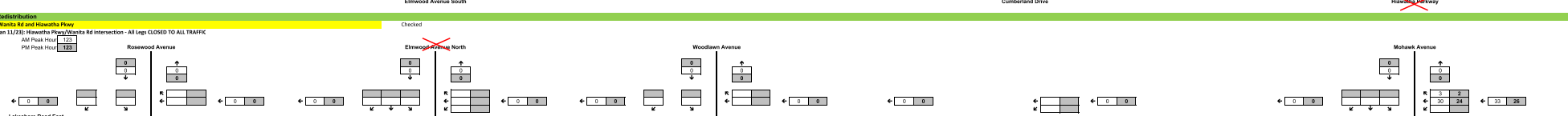
WB at Wanita Rd and Hiawatha Pkwy

Checked

ASoo (Jan 11/23): Hiawatha Pkwy/Wanita Rd intersection - All Legs CLOSED TO ALL TRAFFIC

AM Peak Hour 123

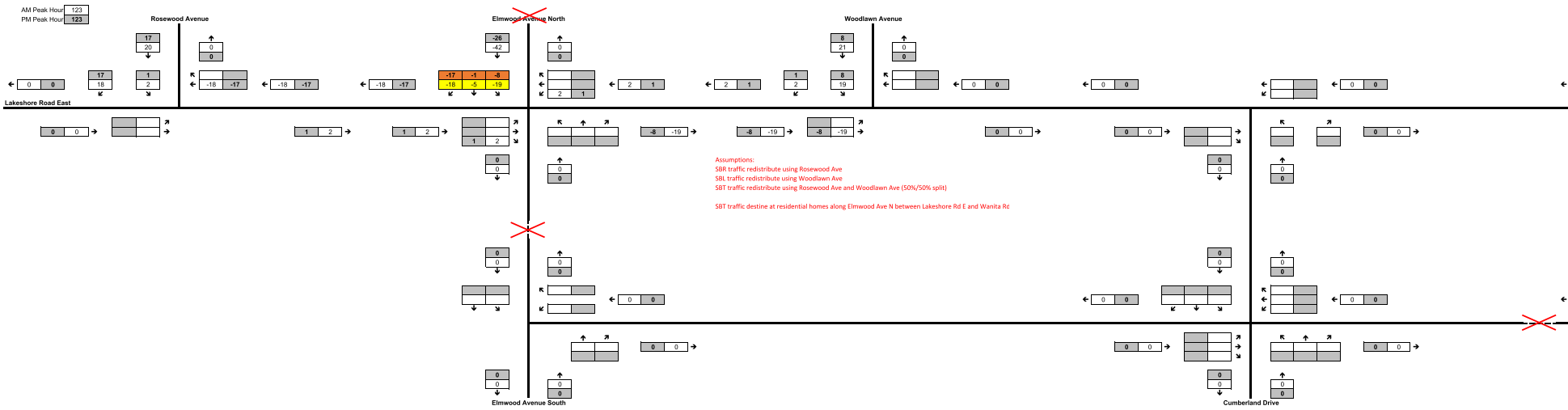
PM Peak Hour 123



2028 Redistribution

SB at Elmwood Ave N and Lakeshore Rd E

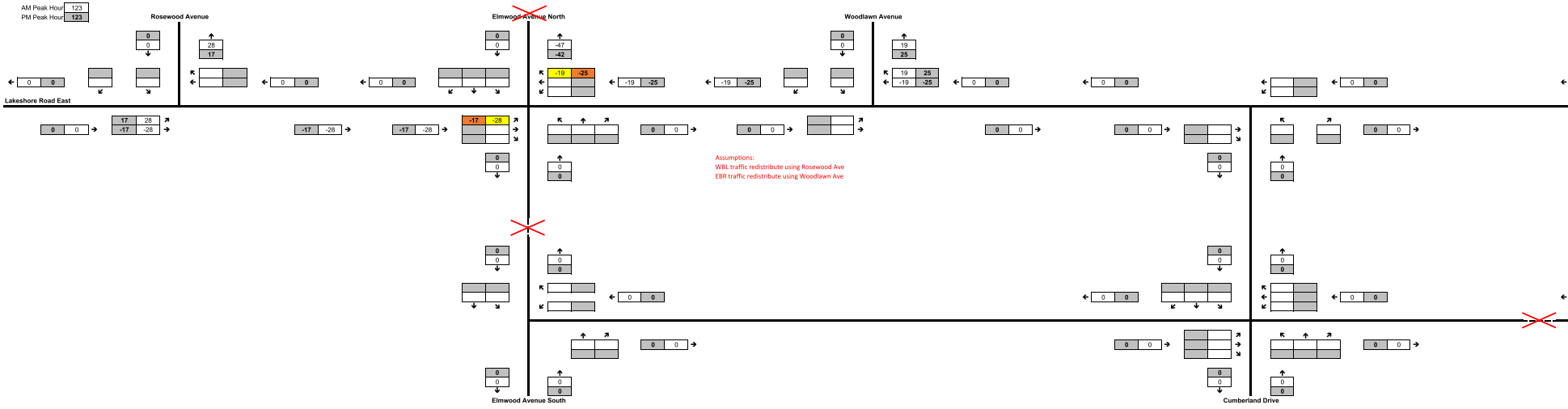
Checked



2028 Redistribution

EBL and WBR at Elmwood Ave N and Lakeshore Rd E

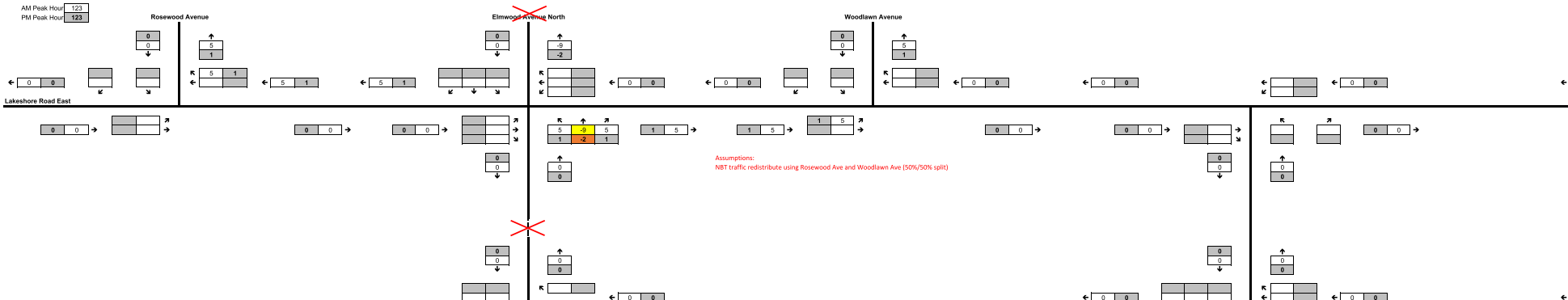
Checked



2028 Redistribution

NBT at Elmwood Ave N and Lakeshore Rd E

Checked



Appendix D

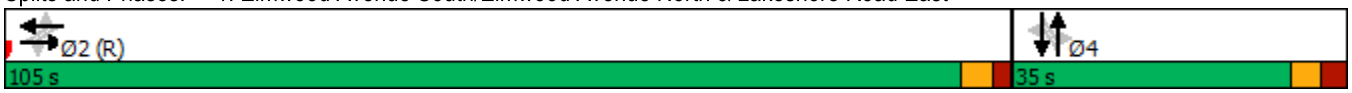
Future Traffic Operations Reports (Without Construction)

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	26	1104	15	4	1002	18	11	8	6	18	4	17
Future Volume (vph)	26	1104	15	4	1002	18	11	8	6	18	4	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.96			0.96	
Frt		0.998			0.997			0.968			0.941	
Flt Protected		0.999						0.978			0.977	
Satd. Flow (prot)	0	3491	0	0	3489	0	0	1793	0	0	1439	0
Flt Permitted		0.900			0.951			0.903			0.887	
Satd. Flow (perm)	0	3144	0	0	3318	0	0	1602	0	0	1306	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			3			6			17	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		105.4			99.3			216.2			182.4	
Travel Time (s)		7.6			7.1			15.6			13.1	
Confl. Peds. (#/hr)	31		42	42		31	53		1	1		53
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	0%	3%	0%	0%	3%	0%	0%	0%	0%	24%	0%	13%
Adj. Flow (vph)	27	1127	15	4	1022	18	11	8	6	18	4	17
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1169	0	0	1044	0	0	25	0	0	39	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	27.5	27.5		27.5	27.5		35.0	35.0		35.0	35.0	
Total Split (s)	105.0	105.0		105.0	105.0		35.0	35.0		35.0	35.0	
Total Split (%)	75.0%	75.0%		75.0%	75.0%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)	99.5	99.5		99.5	99.5		29.0	29.0		29.0	29.0	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		3.0	3.0		3.0	3.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		5.5			5.5			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		Ped	Ped		Ped	Ped	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	12.0	12.0		12.0	12.0		19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		99.5			99.5			29.0			29.0	
Actuated g/C Ratio		0.71			0.71			0.21			0.21	
v/c Ratio		0.52			0.44			0.07			0.14	
Control Delay		10.3			7.3			37.4			30.9	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		10.3			7.3			37.4			30.9	
LOS		B			A			D			C	
Approach Delay		10.3			7.3			37.4			30.9	
Approach LOS		B			A			D			C	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 3 (2%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 70			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.52			
Intersection Signal Delay: 9.6		Intersection LOS: A	
Intersection Capacity Utilization 83.4%		ICU Level of Service E	
Analysis Period (min) 15			

Splits and Phases: 1: Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East



Lane Group	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	1169	1044	25	39
v/c Ratio	0.52	0.44	0.07	0.14
Control Delay	10.3	7.3	37.4	30.9
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	10.3	7.3	37.4	30.9
Queue Length 50th (m)	75.0	40.2	4.5	5.2
Queue Length 95th (m)	90.3	46.2	13.0	16.0
Internal Link Dist (m)	81.4	75.3	192.2	158.4
Turn Bay Length (m)				
Base Capacity (vph)	2235	2359	336	284
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.52	0.44	0.07	0.14

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	26	1104	15	4	1002	18	11	8	6	18	4	17
Future Volume (vph)	26	1104	15	4	1002	18	11	8	6	18	4	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5			5.5			6.0			6.0	
Lane Util. Factor		0.95			0.95			1.00			1.00	
Frpb, ped/bikes		1.00			1.00			1.00			0.96	
Flpb, ped/bikes		1.00			1.00			0.97			1.00	
Frt		1.00			1.00			0.97			0.94	
Flt Protected		1.00			1.00			0.98			0.98	
Satd. Flow (prot)		3490			3490			1736			1439	
Flt Permitted		0.90			0.95			0.90			0.89	
Satd. Flow (perm)		3144			3320			1602			1307	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	27	1127	15	4	1022	18	11	8	6	18	4	17
RTOR Reduction (vph)	0	1	0	0	1	0	0	5	0	0	13	0
Lane Group Flow (vph)	0	1168	0	0	1043	0	0	20	0	0	26	0
Confl. Peds. (#/hr)	31		42	42		31	53		1	1		53
Heavy Vehicles (%)	0%	3%	0%	0%	3%	0%	0%	0%	0%	24%	0%	13%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)		99.5			99.5			29.0			29.0	
Effective Green, g (s)		99.5			99.5			29.0			29.0	
Actuated g/C Ratio		0.71			0.71			0.21			0.21	
Clearance Time (s)		5.5			5.5			6.0			6.0	
Vehicle Extension (s)		3.0			3.0			3.0			3.0	
Lane Grp Cap (vph)		2234			2359			331			270	
v/s Ratio Prot												
v/s Ratio Perm		c0.37			0.31			0.01			c0.02	
v/c Ratio		0.52			0.44			0.06			0.09	
Uniform Delay, d1		9.3			8.5			44.6			44.9	
Progression Factor		1.00			0.78			1.00			1.00	
Incremental Delay, d2		0.9			0.6			0.1			0.2	
Delay (s)		10.2			7.3			44.6			45.0	
Level of Service		B			A			D			D	
Approach Delay (s)		10.2			7.3			44.6			45.0	
Approach LOS		B			A			D			D	

Intersection Summary			
HCM 2000 Control Delay	9.8	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.43		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	11.5
Intersection Capacity Utilization	83.4%	ICU Level of Service	E
Analysis Period (min)	15		

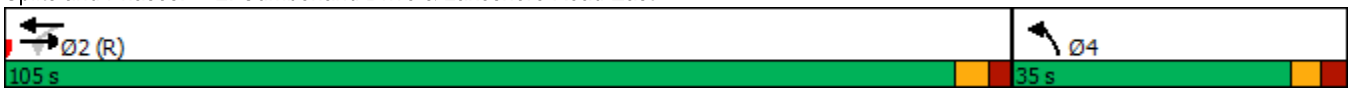
c Critical Lane Group

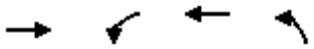
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1084	23	19	1010	20	16
Future Volume (vph)	1084	23	19	1010	20	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)		0.0	10.0		0.0	0.0
Storage Lanes		0	1		1	0
Taper Length (m)			37.0		7.5	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00		0.99		0.98	
Frt	0.997				0.940	
Flt Protected			0.950		0.973	
Satd. Flow (prot)	3485	0	1703	3471	1709	0
Flt Permitted			0.244		0.973	
Satd. Flow (perm)	3485	0	434	3471	1699	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	4				16	
Link Speed (k/h)	50			50	50	
Link Distance (m)	147.4			234.8	216.1	
Travel Time (s)	10.6			16.9	15.6	
Confl. Peds. (#/hr)		17	17		7	18
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	3%	9%	6%	4%	0%	0%
Adj. Flow (vph)	1106	23	19	1031	20	16
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1129	0	19	1031	36	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Number of Detectors	2		1	2	1	
Detector Template	Thru		Left	Thru	Left	
Leading Detector (m)	10.0		2.0	10.0	2.0	
Trailing Detector (m)	0.0		0.0	0.0	0.0	
Detector 1 Position(m)	0.0		0.0	0.0	0.0	
Detector 1 Size(m)	0.6		2.0	0.6	2.0	
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	
Detector 2 Position(m)	9.4			9.4		
Detector 2 Size(m)	0.6			0.6		
Detector 2 Type	Cl+Ex			Cl+Ex		
Detector 2 Channel						
Detector 2 Extend (s)	0.0			0.0		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Detector Phase	2		2	2	4	
Switch Phase						
Minimum Initial (s)	10.0		10.0	10.0	10.0	
Minimum Split (s)	26.0		26.0	26.0	35.0	
Total Split (s)	105.0		105.0	105.0	35.0	
Total Split (%)	75.0%		75.0%	75.0%	25.0%	
Maximum Green (s)	99.0		99.0	99.0	29.0	
Yellow Time (s)	3.5		3.5	3.5	3.0	
All-Red Time (s)	2.5		2.5	2.5	3.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.0		6.0	6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	10.0		10.0	10.0	10.0	
Flash Dont Walk (s)	10.0		10.0	10.0	19.0	
Pedestrian Calls (#/hr)	0		0	0	0	
Act Effct Green (s)	122.4		122.4	122.4	10.0	
Actuated g/C Ratio	0.87		0.87	0.87	0.07	
v/c Ratio	0.37		0.05	0.34	0.26	
Control Delay	1.0		2.1	2.3	44.9	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	1.1		2.1	2.3	44.9	
LOS	A		A	A	D	
Approach Delay	1.1			2.3	44.9	
Approach LOS	A			A	D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 17 (12%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.37			
Intersection Signal Delay: 2.3		Intersection LOS: A	
Intersection Capacity Utilization 56.2%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Cumberland Drive & Lakeshore Road East





Lane Group	EBT	WBL	WBT	NBL
Lane Group Flow (vph)	1129	19	1031	36
v/c Ratio	0.37	0.05	0.34	0.26
Control Delay	1.0	2.1	2.3	44.9
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	1.1	2.1	2.3	44.9
Queue Length 50th (m)	9.0	0.7	25.5	5.6
Queue Length 95th (m)	10.7	m1.8	30.5	17.4
Internal Link Dist (m)	123.4		210.8	192.1
Turn Bay Length (m)		10.0		
Base Capacity (vph)	3046	379	3033	366
Starvation Cap Reductn	312	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.41	0.05	0.34	0.10

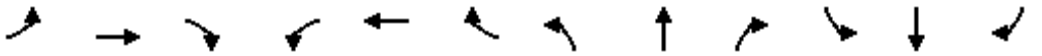
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1084	23	19	1010	20	16
Future Volume (vph)	1084	23	19	1010	20	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	6.0	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	0.98	
Flpb, ped/bikes	1.00		0.99	1.00	1.00	
Frt	1.00		1.00	1.00	0.94	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3484		1684	3471	1709	
Flt Permitted	1.00		0.24	1.00	0.97	
Satd. Flow (perm)	3484		432	3471	1709	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	1106	23	19	1031	20	16
RTOR Reduction (vph)	1	0	0	0	15	0
Lane Group Flow (vph)	1128	0	19	1031	21	0
Confl. Peds. (#/hr)		17	17		7	18
Heavy Vehicles (%)	3%	9%	6%	4%	0%	0%
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Actuated Green, G (s)	120.0		120.0	120.0	8.0	
Effective Green, g (s)	120.0		120.0	120.0	8.0	
Actuated g/C Ratio	0.86		0.86	0.86	0.06	
Clearance Time (s)	6.0		6.0	6.0	6.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	2986		370	2975	97	
v/s Ratio Prot	c0.32			0.30	c0.01	
v/s Ratio Perm			0.04			
v/c Ratio	0.38		0.05	0.35	0.22	
Uniform Delay, d1	2.1		1.5	2.0	63.0	
Progression Factor	0.33		0.97	0.92	1.00	
Incremental Delay, d2	0.3		0.2	0.3	1.1	
Delay (s)	1.0		1.7	2.2	64.1	
Level of Service	A		A	A	E	
Approach Delay (s)	1.0			2.2	64.1	
Approach LOS	A			A	E	

Intersection Summary			
HCM 2000 Control Delay	2.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.37		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	12.0
Intersection Capacity Utilization	56.2%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

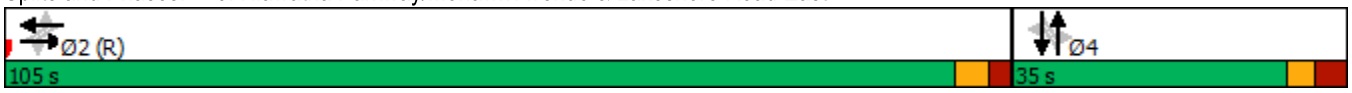


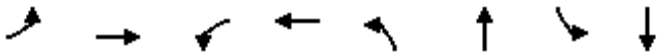
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	15	994	15	22	898	22	47	4	30	159	7	16
Future Volume (vph)	15	994	15	22	898	22	47	4	30	159	7	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	16.0		0.0	15.0		0.0	30.0		0.0	0.0		0.0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (m)	35.0			31.0			30.0			15.0		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		1.00	1.00		0.99	0.97		0.98	0.98	
Frt		0.998			0.996			0.866			0.896	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1687	3460	0	1719	3415	0	1770	1496	0	1787	1604	0
Flt Permitted	0.252			0.223			0.740			0.732		
Satd. Flow (perm)	444	3460	0	402	3415	0	1361	1496	0	1343	1604	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		3			4			34			18	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		234.8			228.8			216.1			35.6	
Travel Time (s)		16.9			16.5			15.6			2.6	
Confl. Peds. (#/hr)	15		11	11		15	10		20	20		10
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	7%	4%	7%	5%	5%	10%	2%	0%	7%	1%	14%	0%
Adj. Flow (vph)	17	1117	17	25	1009	25	53	4	34	179	8	18
Shared Lane Traffic (%)												
Lane Group Flow (vph)	17	1134	0	25	1034	0	53	38	0	179	26	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.6			3.6			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	31.0	31.0		31.0	31.0		38.5	38.5		38.5	38.5	
Total Split (s)	105.0	105.0		105.0	105.0		35.0	35.0		35.0	35.0	
Total Split (%)	75.0%	75.0%		75.0%	75.0%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)	99.0	99.0		99.0	99.0		28.5	28.5		28.5	28.5	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.5	2.5		2.5	2.5		3.5	3.5		3.5	3.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	15.0	15.0		15.0	15.0		22.0	22.0		22.0	22.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	104.5	104.5		104.5	104.5		23.0	23.0		23.0	23.0	
Actuated g/C Ratio	0.75	0.75		0.75	0.75		0.16	0.16		0.16	0.16	
v/c Ratio	0.05	0.44		0.08	0.41		0.24	0.14		0.81	0.09	
Control Delay	1.9	2.1		6.7	7.4		51.6	17.3		83.1	24.5	
Queue Delay	0.0	0.1		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	1.9	2.2		6.7	7.4		51.6	17.3		83.1	24.5	
LOS	A	A		A	A		D	B		F	C	
Approach Delay		2.2			7.4			37.3			75.6	
Approach LOS		A			A			D			E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 36 (26%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 70			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.81			
Intersection Signal Delay: 11.7		Intersection LOS: B	
Intersection Capacity Utilization 57.0%		ICU Level of Service B	
Analysis Period (min) 15			

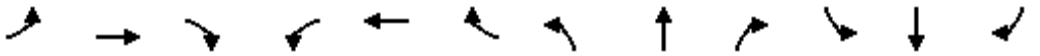
Splits and Phases: 3: Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East





Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	17	1134	25	1034	53	38	179	26
v/c Ratio	0.05	0.44	0.08	0.41	0.24	0.14	0.81	0.09
Control Delay	1.9	2.1	6.7	7.4	51.6	17.3	83.1	24.5
Queue Delay	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	1.9	2.2	6.7	7.4	51.6	17.3	83.1	24.5
Queue Length 50th (m)	0.4	14.2	1.8	52.3	13.5	1.0	50.6	2.0
Queue Length 95th (m)	1.2	18.3	5.5	71.5	25.6	10.9	75.3	10.4
Internal Link Dist (m)		210.8		204.8		192.1		11.6
Turn Bay Length (m)	16.0		15.0		30.0			
Base Capacity (vph)	331	2584	300	2551	277	331	273	340
Starvation Cap Reductn	0	326	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.05	0.50	0.08	0.41	0.19	0.11	0.66	0.08

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	15	994	15	22	898	22	47	4	30	159	7	16
Future Volume (vph)	15	994	15	22	898	22	47	4	30	159	7	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00		1.00	0.97		1.00	0.98	
Flpb, ped/bikes	0.99	1.00		1.00	1.00		0.99	1.00		0.98	1.00	
Frt	1.00	1.00		1.00	1.00		1.00	0.87		1.00	0.90	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1673	3459		1711	3417		1747	1496		1743	1604	
Flt Permitted	0.25	1.00		0.22	1.00		0.74	1.00		0.73	1.00	
Satd. Flow (perm)	444	3459		401	3417		1362	1496		1343	1604	
Peak-hour factor, PHF	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	17	1117	17	25	1009	25	53	4	34	179	8	18
RTOR Reduction (vph)	0	1	0	0	1	0	0	28	0	0	15	0
Lane Group Flow (vph)	17	1133	0	25	1033	0	53	10	0	179	11	0
Confl. Peds. (#/hr)	15		11	11		15	10		20	20		10
Heavy Vehicles (%)	7%	4%	7%	5%	5%	10%	2%	0%	7%	1%	14%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)	104.5	104.5		104.5	104.5		23.0	23.0		23.0	23.0	
Effective Green, g (s)	104.5	104.5		104.5	104.5		23.0	23.0		23.0	23.0	
Actuated g/C Ratio	0.75	0.75		0.75	0.75		0.16	0.16		0.16	0.16	
Clearance Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	331	2581		299	2550		223	245		220	263	
v/s Ratio Prot		c0.33			0.30			0.01			0.01	
v/s Ratio Perm	0.04			0.06			0.04			c0.13		
v/c Ratio	0.05	0.44		0.08	0.41		0.24	0.04		0.81	0.04	
Uniform Delay, d1	4.7	6.7		4.8	6.5		50.9	49.2		56.4	49.2	
Progression Factor	0.27	0.22		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.3	0.5		0.5	0.5		0.6	0.1		20.1	0.1	
Delay (s)	1.5	2.0		5.3	6.9		51.4	49.3		76.5	49.3	
Level of Service	A	A		A	A		D	D		E	D	
Approach Delay (s)		2.0			6.9			50.5			73.0	
Approach LOS		A			A			D			E	

Intersection Summary			
HCM 2000 Control Delay	11.6	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.51		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	12.5
Intersection Capacity Utilization	57.0%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1187	34	85	1007	0	100
Future Volume (vph)	1187	34	85	1007	0	100
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.996				0.865	
Flt Protected				0.996		
Satd. Flow (prot)	3491	0	0	3455	1565	0
Flt Permitted				0.996		
Satd. Flow (perm)	3491	0	0	3455	1565	0
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		21	21		1	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	3%	3%	5%	4%	0%	5%
Adj. Flow (vph)	1304	37	93	1107	0	110
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1341	0	0	1200	110	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	83.4%	ICU Level of Service	E
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1187	34	85	1007	0	100
Future Volume (Veh/h)	1187	34	85	1007	0	100
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (vph)	1304	37	93	1107	0	110
Pedestrians	1			11	21	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	0			1	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.88		0.88	0.88
vC, conflicting volume			1362		2084	702
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1129		1954	375
tC, single (s)			4.2		6.8	7.0
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			82		100	79
cM capacity (veh/h)			514		40	523

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	869	472	462	738	110
Volume Left	0	0	93	0	0
Volume Right	0	37	0	0	110
cSH	1700	1700	514	1700	523
Volume to Capacity	0.51	0.28	0.18	0.43	0.21
Queue Length 95th (m)	0.0	0.0	5.2	0.0	6.3
Control Delay (s)	0.0	0.0	5.2	0.0	13.7
Lane LOS			A		B
Approach Delay (s)	0.0		2.0		13.7
Approach LOS					B

Intersection Summary				
Average Delay	1.5			
Intersection Capacity Utilization	83.4%	ICU Level of Service	E	
Analysis Period (min)	15			

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1187	34	85	1007	0	100
Future Volume (vph)	1187	34	85	1007	0	100
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.996					0.850
Flt Protected				0.996		
Satd. Flow (prot)	3491	0	0	3455	1900	1538
Flt Permitted				0.996		
Satd. Flow (perm)	3491	0	0	3455	1900	1538
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		21	21		1	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	3%	3%	5%	4%	0%	5%
Adj. Flow (vph)	1304	37	93	1107	0	110
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1341	0	0	1200	0	110
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	80.7%	ICU Level of Service	D
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1187	34	85	1007	0	100
Future Volume (Veh/h)	1187	34	85	1007	0	100
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (vph)	1304	37	93	1107	0	110
Pedestrians	1			11	21	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	0			1	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.88		0.88	0.88
vC, conflicting volume			1362		2084	702
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1129		1954	375
tC, single (s)			4.2		6.8	7.0
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			82		100	79
cM capacity (veh/h)			514		40	523

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2
Volume Total	869	472	462	738	0	110
Volume Left	0	0	93	0	0	0
Volume Right	0	37	0	0	0	110
cSH	1700	1700	514	1700	1700	523
Volume to Capacity	0.51	0.28	0.18	0.43	0.00	0.21
Queue Length 95th (m)	0.0	0.0	5.2	0.0	0.0	6.3
Control Delay (s)	0.0	0.0	5.2	0.0	0.0	13.7
Lane LOS			A		A	B
Approach Delay (s)	0.0		2.0		13.7	
Approach LOS					B	

Intersection Summary			
Average Delay	1.5		
Intersection Capacity Utilization	80.7%	ICU Level of Service	D
Analysis Period (min)	15		

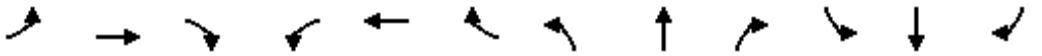
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	3	12	8	1	18	7
Future Volume (vph)	3	12	8	1	18	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt	0.892		0.985			
Flt Protected	0.990					0.965
Satd. Flow (prot)	1678	0	1872	0	0	1834
Flt Permitted	0.990					0.965
Satd. Flow (perm)	1678	0	1872	0	0	1834
Link Speed (k/h)	50		50			50
Link Distance (m)	246.0		102.9			216.2
Travel Time (s)	17.7		7.4			15.6
Confl. Peds. (#/hr)	10	22				
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	6	24	16	2	36	14
Shared Lane Traffic (%)						
Lane Group Flow (vph)	30	0	18	0	0	50
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	3.6		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 23.2%		ICU Level of Service A	
Analysis Period (min) 15			

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	3	12	8	1	18	7
Future Volume (Veh/h)	3	12	8	1	18	7
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50
Hourly flow rate (vph)	6	24	16	2	36	14
Pedestrians			10			22
Lane Width (m)			3.6			3.6
Walking Speed (m/s)			1.2			1.2
Percent Blockage			1			2
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (m)						216
pX, platoon unblocked						
vC, conflicting volume	113	39			18	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	113	39			18	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	98			98	
cM capacity (veh/h)	861	1019			1612	

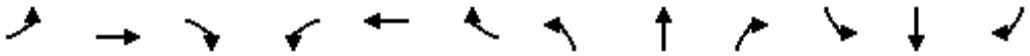
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	30	18	50
Volume Left	6	0	36
Volume Right	24	2	0
cSH	983	1700	1612
Volume to Capacity	0.03	0.01	0.02
Queue Length 95th (m)	0.8	0.0	0.5
Control Delay (s)	8.8	0.0	5.3
Lane LOS	A		A
Approach Delay (s)	8.8	0.0	5.3
Approach LOS	A		

Intersection Summary			
Average Delay	5.4		
Intersection Capacity Utilization	23.2%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	15	4	1	9	2	4	11	2	11	14	4
Future Volume (vph)	2	15	4	1	9	2	4	11	2	11	14	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.975			0.979			0.984			0.982	
Flt Protected		0.995			0.995			0.989			0.981	
Satd. Flow (prot)	0	1843	0	0	1851	0	0	1849	0	0	1649	0
Flt Permitted		0.995			0.995			0.989			0.981	
Satd. Flow (perm)	0	1843	0	0	1851	0	0	1849	0	0	1649	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		246.0			233.0			138.8			216.1	
Travel Time (s)		17.7			16.8			10.0			15.6	
Confl. Peds. (#/hr)	23		5	5		23	14		3	3		14
Peak Hour Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	23%	0%
Adj. Flow (vph)	3	23	6	2	14	3	6	17	3	17	21	6
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	32	0	0	19	0	0	26	0	0	44	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

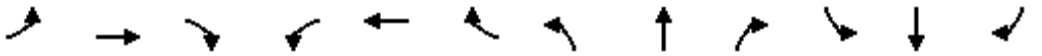
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 22.4%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	2	15	4	1	9	2	4	11	2	11	14	4
Future Volume (vph)	2	15	4	1	9	2	4	11	2	11	14	4
Peak Hour Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Hourly flow rate (vph)	3	23	6	2	14	3	6	17	3	17	21	6

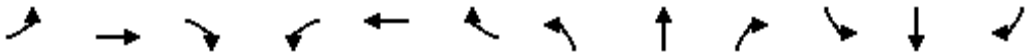
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	32	19	26	44
Volume Left (vph)	3	2	6	17
Volume Right (vph)	6	3	3	6
Hadj (s)	-0.09	-0.07	-0.02	0.18
Departure Headway (s)	4.0	4.0	4.0	4.2
Degree Utilization, x	0.04	0.02	0.03	0.05
Capacity (veh/h)	883	876	869	839
Control Delay (s)	7.1	7.1	7.1	7.4
Approach Delay (s)	7.1	7.1	7.1	7.4
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.2			
Level of Service	A			
Intersection Capacity Utilization	22.4%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	19	0	1	7	30	1	15	0	3	14	5
Future Volume (vph)	9	19	0	1	7	30	1	15	0	3	14	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt					0.891						0.968	
Flt Protected		0.984			0.999			0.998			0.993	
Satd. Flow (prot)	0	1870	0	0	1572	0	0	1778	0	0	1826	0
Flt Permitted		0.984			0.999			0.998			0.993	
Satd. Flow (perm)	0	1870	0	0	1572	0	0	1778	0	0	1826	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		233.0			228.0			131.6			216.1	
Travel Time (s)		16.8			16.4			9.5			15.6	
Confl. Peds. (#/hr)	5		1	1		5	12		14	14		12
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Heavy Vehicles (%)	0%	0%	0%	100%	0%	7%	0%	7%	0%	0%	0%	0%
Adj. Flow (vph)	12	26	0	1	9	41	1	20	0	4	19	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	38	0	0	51	0	0	21	0	0	30	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

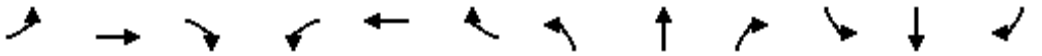
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 20.0%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	9	19	0	1	7	30	1	15	0	3	14	5
Future Volume (vph)	9	19	0	1	7	30	1	15	0	3	14	5
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Hourly flow rate (vph)	12	26	0	1	9	41	1	20	0	4	19	7

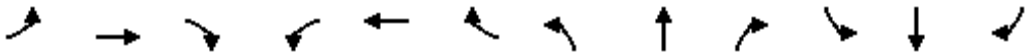
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	38	51	21	30
Volume Left (vph)	12	1	1	4
Volume Right (vph)	0	41	0	7
Hadj (s)	0.06	-0.35	0.12	-0.11
Departure Headway (s)	4.1	3.7	4.2	4.0
Degree Utilization, x	0.04	0.05	0.02	0.03
Capacity (veh/h)	856	954	821	877
Control Delay (s)	7.3	6.9	7.3	7.1
Approach Delay (s)	7.3	6.9	7.3	7.1
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.1			
Level of Service	A			
Intersection Capacity Utilization	20.0%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	8	15	1	1	24	54	5	22	1	72	21	9
Future Volume (vph)	8	15	1	1	24	54	5	22	1	72	21	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.993			0.908			0.994			0.988	
Flt Protected		0.984			0.999			0.992			0.966	
Satd. Flow (prot)	0	1709	0	0	1637	0	0	1870	0	0	1709	0
Flt Permitted		0.984			0.999			0.992			0.966	
Satd. Flow (perm)	0	1709	0	0	1637	0	0	1870	0	0	1709	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		228.0			132.1			169.2			216.1	
Travel Time (s)		16.4			9.5			12.2			15.6	
Confl. Peds. (#/hr)	4		3	3		4	1		18	18		1
Peak Hour Factor	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Heavy Vehicles (%)	13%	7%	0%	0%	4%	6%	1%	0%	0%	3%	10%	22%
Adj. Flow (vph)	13	25	2	2	40	90	8	37	2	120	35	15
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	40	0	0	132	0	0	47	0	0	170	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

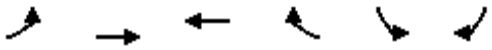
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 26.1%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	8	15	1	1	24	54	5	22	1	72	21	9
Future Volume (vph)	8	15	1	1	24	54	5	22	1	72	21	9
Peak Hour Factor	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Hourly flow rate (vph)	13	25	2	2	40	90	8	37	2	120	35	15

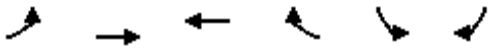
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	40	132	47	170
Volume Left (vph)	13	2	8	120
Volume Right (vph)	2	90	2	15
Hadj (s)	0.18	-0.32	0.01	0.19
Departure Headway (s)	4.7	4.2	4.5	4.5
Degree Utilization, x	0.05	0.15	0.06	0.21
Capacity (veh/h)	707	815	756	756
Control Delay (s)	8.0	7.9	7.8	8.8
Approach Delay (s)	8.0	7.9	7.8	8.8
Approach LOS	A	A	A	A

Intersection Summary			
Delay	8.3		
Level of Service	A		
Intersection Capacity Utilization	26.1%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	122	979	906	14	4	72
Future Volume (vph)	122	979	906	14	4	72
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.998		0.871	
Flt Protected		0.994			0.998	
Satd. Flow (prot)	0	3488	3499	0	1591	0
Flt Permitted		0.994			0.998	
Satd. Flow (perm)	0	3488	3499	0	1591	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		168.4	105.4		179.3	
Travel Time (s)		12.1	7.6		12.9	
Confl. Peds. (#/hr)	40			40	4	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	2%	3%	3%	0%	0%	4%
Adj. Flow (vph)	136	1088	1007	16	4	80
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1224	1023	0	84	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

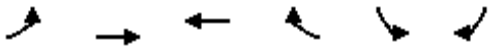
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 70.8%		ICU Level of Service C	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	122	979	906	14	4	72
Future Volume (Veh/h)	122	979	906	14	4	72
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	136	1088	1007	16	4	80
Pedestrians			4		40	
Lane Width (m)			3.6		3.6	
Walking Speed (m/s)			1.2		1.2	
Percent Blockage			0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)			105			
pX, platoon unblocked	0.88				0.88	0.88
vC, conflicting volume	1063				1875	552
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	793				1718	211
tC, single (s)	4.1				6.8	7.0
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	81				93	88
cM capacity (veh/h)	699				56	669

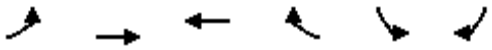
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	499	725	671	352	84
Volume Left	136	0	0	0	4
Volume Right	0	0	0	16	80
cSH	699	1700	1700	1700	440
Volume to Capacity	0.19	0.43	0.39	0.21	0.19
Queue Length 95th (m)	5.7	0.0	0.0	0.0	5.6
Control Delay (s)	5.2	0.0	0.0	0.0	15.1
Lane LOS	A				C
Approach Delay (s)	2.1		0.0		15.1
Approach LOS					C

Intersection Summary			
Average Delay	1.6		
Intersection Capacity Utilization	70.8%	ICU Level of Service	C
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	12	961	841	7	6	26
Future Volume (vph)	12	961	841	7	6	26
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.999		0.890	
Flt Protected		0.999			0.991	
Satd. Flow (prot)	0	3499	3461	0	1676	0
Flt Permitted		0.999			0.991	
Satd. Flow (perm)	0	3499	3461	0	1676	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		99.3	147.4		181.8	
Travel Time (s)		7.1	10.6		13.1	
Confl. Peds. (#/hr)	40			40	1	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	8%	3%	4%	29%	0%	0%
Adj. Flow (vph)	13	1001	876	7	6	27
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1014	883	0	33	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	45.0%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	12	961	841	7	6	26
Future Volume (Veh/h)	12	961	841	7	6	26
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Hourly flow rate (vph)	12	1001	876	7	6	27
Pedestrians			1		40	
Lane Width (m)			3.6		3.6	
Walking Speed (m/s)			1.2		1.2	
Percent Blockage			0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)		99	148			
pX, platoon unblocked	0.96				0.88	0.96
vC, conflicting volume	923				1445	482
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	825				1013	363
tC, single (s)	4.3				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.3				3.5	3.3
p0 queue free %	98				97	95
cM capacity (veh/h)	705				200	590

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	346	667	584	299	33
Volume Left	12	0	0	0	6
Volume Right	0	0	0	7	27
cSH	705	1700	1700	1700	436
Volume to Capacity	0.02	0.39	0.34	0.18	0.08
Queue Length 95th (m)	0.4	0.0	0.0	0.0	2.0
Control Delay (s)	0.6	0.0	0.0	0.0	13.9
Lane LOS	A				B
Approach Delay (s)	0.2		0.0		13.9
Approach LOS					B

Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	45.0%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection: 6: Cumberland Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	9.3	9.3	10.5	18.1
Average Queue (m)	4.5	3.2	3.4	5.9
95th Queue (m)	11.9	10.3	10.8	15.5
Link Distance (m)	229.0	214.4	130.3	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 7: Hiawatha Parkway & Wanita Road

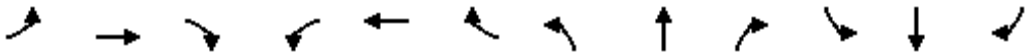
Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	9.3	16.3	9.2	12.0
Average Queue (m)	5.4	6.4	3.1	4.4
95th Queue (m)	12.7	14.4	10.1	12.0
Link Distance (m)	214.4	209.3	123.2	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: Wenonah Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	18.5	20.2	9.2	21.2
Average Queue (m)	6.2	9.1	5.7	10.2
95th Queue (m)	15.1	15.2	12.9	16.6
Link Distance (m)	209.3	123.7	160.8	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

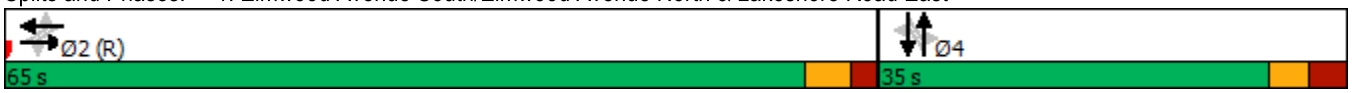


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	16	994	12	2	1179	23	6	2	7	7	1	16
Future Volume (vph)	16	994	12	2	1179	23	6	2	7	7	1	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.98			0.97	
Frt		0.998			0.997			0.937			0.908	
Flt Protected		0.999						0.980			0.986	
Satd. Flow (prot)	0	3561	0	0	3554	0	0	1734	0	0	1643	0
Flt Permitted		0.921			0.954			0.936			0.953	
Satd. Flow (perm)	0	3282	0	0	3391	0	0	1631	0	0	1587	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			3			7			17	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		105.4			99.3			216.2			182.4	
Travel Time (s)		7.6			7.1			15.6			13.1	
Confl. Peds. (#/hr)	58		31	31		58	38		1	1		38
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	17	1035	13	2	1228	24	6	2	7	7	1	17
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1065	0	0	1254	0	0	15	0	0	25	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	27.5	27.5		27.5	27.5		35.0	35.0		35.0	35.0	
Total Split (s)	65.0	65.0		65.0	65.0		35.0	35.0		35.0	35.0	
Total Split (%)	65.0%	65.0%		65.0%	65.0%		35.0%	35.0%		35.0%	35.0%	
Maximum Green (s)	59.5	59.5		59.5	59.5		29.0	29.0		29.0	29.0	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		3.0	3.0		3.0	3.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		5.5			5.5			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		Ped	Ped		Ped	Ped	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	12.0	12.0		12.0	12.0		19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		59.5			59.5			29.0			29.0	
Actuated g/C Ratio		0.60			0.60			0.29			0.29	
v/c Ratio		0.55			0.62			0.03			0.05	
Control Delay		13.4			14.7			18.9			14.8	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		13.4			14.7			18.9			14.8	
LOS		B			B			B			B	
Approach Delay		13.4			14.7			18.9			14.8	
Approach LOS		B			B			B			B	

Intersection Summary			
Area Type:	Other		
Cycle Length: 100			
Actuated Cycle Length: 100			
Offset: 64 (64%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 70			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.62			
Intersection Signal Delay: 14.1		Intersection LOS: B	
Intersection Capacity Utilization 73.0%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 1: Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East



Lane Group	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	1065	1254	15	25
v/c Ratio	0.55	0.62	0.03	0.05
Control Delay	13.4	14.7	18.9	14.8
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	13.4	14.7	18.9	14.8
Queue Length 50th (m)	63.4	80.1	1.2	1.2
Queue Length 95th (m)	81.1	101.2	6.1	7.5
Internal Link Dist (m)	81.4	75.3	192.2	158.4
Turn Bay Length (m)				
Base Capacity (vph)	1953	2018	477	472
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.55	0.62	0.03	0.05

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	16	994	12	2	1179	23	6	2	7	7	1	16
Future Volume (vph)	16	994	12	2	1179	23	6	2	7	7	1	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5			5.5			6.0			6.0	
Lane Util. Factor		0.95			0.95			1.00			1.00	
Frpb, ped/bikes		1.00			1.00			0.99			0.97	
Flpb, ped/bikes		1.00			1.00			0.98			1.00	
Frt		1.00			1.00			0.94			0.91	
Flt Protected		1.00			1.00			0.98			0.99	
Satd. Flow (prot)		3561			3554			1708			1643	
Flt Permitted		0.92			0.95			0.94			0.95	
Satd. Flow (perm)		3282			3391			1632			1587	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	17	1035	12	2	1228	24	6	2	7	7	1	17
RTOR Reduction (vph)	0	1	0	0	1	0	0	5	0	0	12	0
Lane Group Flow (vph)	0	1064	0	0	1253	0	0	10	0	0	13	0
Confl. Peds. (#/hr)	58		31	31		58	38		1	1		38
Heavy Vehicles (%)	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)		59.5			59.5			29.0			29.0	
Effective Green, g (s)		59.5			59.5			29.0			29.0	
Actuated g/C Ratio		0.60			0.60			0.29			0.29	
Clearance Time (s)		5.5			5.5			6.0			6.0	
Vehicle Extension (s)		3.0			3.0			3.0			3.0	
Lane Grp Cap (vph)		1952			2017			473			460	
v/s Ratio Prot												
v/s Ratio Perm		0.32			c0.37			0.01			c0.01	
v/c Ratio		0.55			0.62			0.02			0.03	
Uniform Delay, d1		12.1			13.0			25.4			25.4	
Progression Factor		1.00			1.00			1.00			1.00	
Incremental Delay, d2		1.1			1.5			0.0			0.0	
Delay (s)		13.2			14.5			25.4			25.4	
Level of Service		B			B			C			C	
Approach Delay (s)		13.2			14.5			25.4			25.4	
Approach LOS		B			B			C			C	

Intersection Summary			
HCM 2000 Control Delay	14.1	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.43		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	11.5
Intersection Capacity Utilization	73.0%	ICU Level of Service	C
Analysis Period (min)	15		

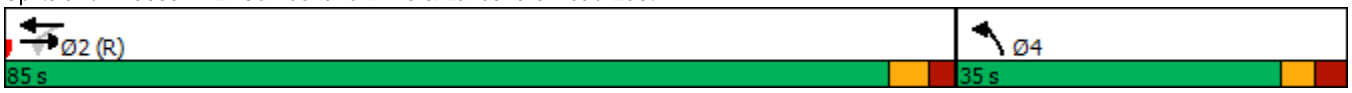
c Critical Lane Group

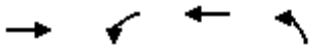
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	954	34	31	1208	38	24
Future Volume (vph)	954	34	31	1208	38	24
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)		0.0	10.0		0.0	0.0
Storage Lanes		0	1		1	0
Taper Length (m)			37.0		7.5	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00		0.99		0.98	
Frt	0.995				0.948	
Flt Protected			0.950		0.970	
Satd. Flow (prot)	3550	0	1805	3574	1730	0
Flt Permitted			0.271		0.970	
Satd. Flow (perm)	3550	0	511	3574	1720	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	6				25	
Link Speed (k/h)	50			50	50	
Link Distance (m)	147.4			234.8	216.1	
Travel Time (s)	10.6			16.9	15.6	
Confl. Peds. (#/hr)		15	15		8	11
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	1%	0%	0%	1%	0%	0%
Adj. Flow (vph)	994	35	32	1258	40	25
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1029	0	32	1258	65	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Number of Detectors	2		1	2	1	
Detector Template	Thru		Left	Thru	Left	
Leading Detector (m)	10.0		2.0	10.0	2.0	
Trailing Detector (m)	0.0		0.0	0.0	0.0	
Detector 1 Position(m)	0.0		0.0	0.0	0.0	
Detector 1 Size(m)	0.6		2.0	0.6	2.0	
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	
Detector 2 Position(m)	9.4			9.4		
Detector 2 Size(m)	0.6			0.6		
Detector 2 Type	Cl+Ex			Cl+Ex		
Detector 2 Channel						
Detector 2 Extend (s)	0.0			0.0		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Detector Phase	2		2	2	4	
Switch Phase						
Minimum Initial (s)	10.0		10.0	10.0	10.0	
Minimum Split (s)	26.0		26.0	26.0	35.0	
Total Split (s)	85.0		85.0	85.0	35.0	
Total Split (%)	70.8%		70.8%	70.8%	29.2%	
Maximum Green (s)	79.0		79.0	79.0	29.0	
Yellow Time (s)	3.5		3.5	3.5	3.0	
All-Red Time (s)	2.5		2.5	2.5	3.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.0		6.0	6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	10.0		10.0	10.0	10.0	
Flash Dont Walk (s)	10.0		10.0	10.0	19.0	
Pedestrian Calls (#/hr)	0		0	0	0	
Act Effct Green (s)	102.0		102.0	102.0	10.4	
Actuated g/C Ratio	0.85		0.85	0.85	0.09	
v/c Ratio	0.34		0.07	0.41	0.38	
Control Delay	2.9		1.5	1.5	40.6	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	2.9		1.5	1.5	40.6	
LOS	A		A	A	D	
Approach Delay	2.9			1.5	40.6	
Approach LOS	A			A	D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 120			
Offset: 77 (64%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.41			
Intersection Signal Delay: 3.2		Intersection LOS: A	
Intersection Capacity Utilization 56.6%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Cumberland Drive & Lakeshore Road East





Lane Group	EBT	WBL	WBT	NBL
Lane Group Flow (vph)	1029	32	1258	65
v/c Ratio	0.34	0.07	0.41	0.38
Control Delay	2.9	1.5	1.5	40.6
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	2.9	1.5	1.5	40.6
Queue Length 50th (m)	27.0	0.6	13.8	9.5
Queue Length 95th (m)	37.6	m1.6	15.6	23.8
Internal Link Dist (m)	123.4		210.8	192.1
Turn Bay Length (m)		10.0		
Base Capacity (vph)	3017	434	3036	437
Starvation Cap Reductn	0	0	194	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.34	0.07	0.44	0.15

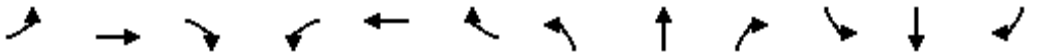
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	954	34	31	1208	38	24
Future Volume (vph)	954	34	31	1208	38	24
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	6.0	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	0.99	
Flpb, ped/bikes	1.00		0.99	1.00	1.00	
Frt	0.99		1.00	1.00	0.95	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3549		1787	3574	1731	
Flt Permitted	1.00		0.27	1.00	0.97	
Satd. Flow (perm)	3549		509	3574	1731	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	994	35	32	1258	40	25
RTOR Reduction (vph)	1	0	0	0	23	0
Lane Group Flow (vph)	1028	0	32	1258	42	0
Confl. Peds. (#/hr)		15	15		8	11
Heavy Vehicles (%)	1%	0%	0%	1%	0%	0%
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Actuated Green, G (s)	99.6		99.6	99.6	8.4	
Effective Green, g (s)	99.6		99.6	99.6	8.4	
Actuated g/C Ratio	0.83		0.83	0.83	0.07	
Clearance Time (s)	6.0		6.0	6.0	6.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	2945		422	2966	121	
v/s Ratio Prot	0.29			c0.35	c0.02	
v/s Ratio Perm			0.06			
v/c Ratio	0.35		0.08	0.42	0.35	
Uniform Delay, d1	2.4		1.9	2.7	53.2	
Progression Factor	1.00		0.51	0.39	1.00	
Incremental Delay, d2	0.3		0.3	0.4	1.7	
Delay (s)	2.8		1.3	1.5	54.9	
Level of Service	A		A	A	D	
Approach Delay (s)	2.8			1.4	54.9	
Approach LOS	A			A	D	

Intersection Summary			
HCM 2000 Control Delay	3.5	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.42		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	12.0
Intersection Capacity Utilization	56.6%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group



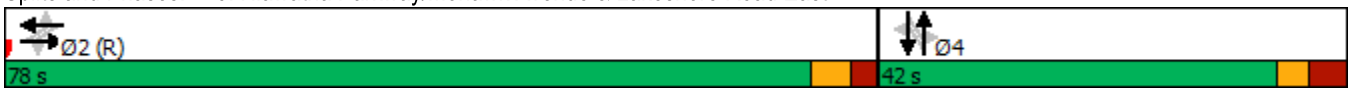
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	23	930	11	28	1096	14	37	3	24	96	5	11
Future Volume (vph)	23	930	11	28	1096	14	37	3	24	96	5	11
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	16.0		0.0	15.0		0.0	30.0		0.0	0.0		0.0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (m)	35.0			31.0			30.0			15.0		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		0.99	1.00		0.99	0.98		0.98	0.99	
Frt		0.998			0.998			0.866			0.894	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	3565	0	1736	3530	0	1805	1550	0	1805	1674	0
Flt Permitted	0.221			0.274			0.746			0.739		
Satd. Flow (perm)	417	3565	0	497	3530	0	1405	1550	0	1383	1674	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			2			25			12	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		234.8			228.8			216.1			35.6	
Travel Time (s)		16.9			16.5			15.6			2.6	
Confl. Peds. (#/hr)	23		15	15		23	8		14	14		8
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	0%	1%	0%	4%	2%	0%	0%	33%	0%	0%	0%	0%
Adj. Flow (vph)	24	979	12	29	1154	15	39	3	25	101	5	12
Shared Lane Traffic (%)												
Lane Group Flow (vph)	24	991	0	29	1169	0	39	28	0	101	17	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.6			3.6			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

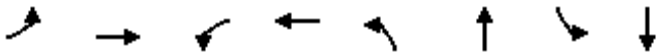
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	31.0	31.0		31.0	31.0		38.5	38.5		38.5	38.5	
Total Split (s)	78.0	78.0		78.0	78.0		42.0	42.0		42.0	42.0	
Total Split (%)	65.0%	65.0%		65.0%	65.0%		35.0%	35.0%		35.0%	35.0%	
Maximum Green (s)	72.0	72.0		72.0	72.0		35.5	35.5		35.5	35.5	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.5	2.5		2.5	2.5		3.5	3.5		3.5	3.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	15.0	15.0		15.0	15.0		22.0	22.0		22.0	22.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	93.0	93.0		93.0	93.0		14.5	14.5		14.5	14.5	
Actuated g/C Ratio	0.78	0.78		0.78	0.78		0.12	0.12		0.12	0.12	
v/c Ratio	0.07	0.36		0.08	0.43		0.23	0.13		0.60	0.08	
Control Delay	4.5	4.5		4.6	5.4		49.2	19.1		64.4	25.8	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	4.5	4.5		4.6	5.4		49.2	19.1		64.4	25.8	
LOS	A	A		A	A		D	B		E	C	
Approach Delay		4.5			5.4			36.6			58.9	
Approach LOS		A			A			D			E	

Intersection Summary

Area Type: Other
Cycle Length: 120
Actuated Cycle Length: 120
Offset: 72 (60%), Referenced to phase 2:EBWB and 6:, Start of Green
Natural Cycle: 70
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 0.60
Intersection Signal Delay: 8.5 Intersection LOS: A
Intersection Capacity Utilization 56.6% ICU Level of Service B
Analysis Period (min) 15

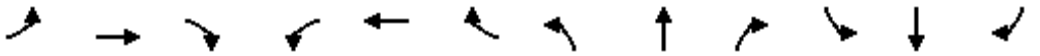
Splits and Phases: 3: Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East





Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	24	991	29	1169	39	28	101	17
v/c Ratio	0.07	0.36	0.08	0.43	0.23	0.13	0.60	0.08
Control Delay	4.5	4.5	4.6	5.4	49.2	19.1	64.4	25.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	4.5	4.5	4.6	5.4	49.2	19.1	64.4	25.8
Queue Length 50th (m)	1.1	32.3	1.4	42.1	8.9	0.7	24.2	1.1
Queue Length 95th (m)	3.9	38.6	4.9	66.6	19.1	9.2	41.2	7.9
Internal Link Dist (m)		210.8		204.8		192.1		11.6
Turn Bay Length (m)	16.0		15.0		30.0			
Base Capacity (vph)	323	2762	385	2734	415	476	409	503
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.07	0.36	0.08	0.43	0.09	0.06	0.25	0.03

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	23	930	11	28	1096	14	37	3	24	96	5	11
Future Volume (vph)	23	930	11	28	1096	14	37	3	24	96	5	11
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00		1.00	0.98		1.00	0.99	
Flpb, ped/bikes	0.99	1.00		0.99	1.00		0.99	1.00		0.98	1.00	
Frt	1.00	1.00		1.00	1.00		1.00	0.87		1.00	0.89	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1789	3566		1721	3530		1789	1550		1778	1674	
Flt Permitted	0.22	1.00		0.27	1.00		0.75	1.00		0.74	1.00	
Satd. Flow (perm)	416	3566		496	3530		1406	1550		1383	1674	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	24	979	12	29	1154	15	39	3	25	101	5	12
RTOR Reduction (vph)	0	0	0	0	0	0	0	22	0	0	11	0
Lane Group Flow (vph)	24	991	0	29	1169	0	39	6	0	101	6	0
Confl. Peds. (#/hr)	23		15	15		23	8		14	14		8
Heavy Vehicles (%)	0%	1%	0%	4%	2%	0%	0%	33%	0%	0%	0%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)	93.0	93.0		93.0	93.0		14.5	14.5		14.5	14.5	
Effective Green, g (s)	93.0	93.0		93.0	93.0		14.5	14.5		14.5	14.5	
Actuated g/C Ratio	0.78	0.78		0.78	0.78		0.12	0.12		0.12	0.12	
Clearance Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	322	2763		384	2735		169	187		167	202	
v/s Ratio Prot		0.28			c0.33			0.00			0.00	
v/s Ratio Perm	0.06			0.06			0.03			c0.07		
v/c Ratio	0.07	0.36		0.08	0.43		0.23	0.03		0.60	0.03	
Uniform Delay, d1	3.2	4.2		3.2	4.5		47.7	46.6		50.0	46.6	
Progression Factor	0.97	0.90		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.4	0.3		0.4	0.5		0.7	0.1		6.1	0.1	
Delay (s)	3.6	4.1		3.6	5.0		48.4	46.6		56.1	46.6	
Level of Service	A	A		A	A		D	D		E	D	
Approach Delay (s)		4.1			5.0			47.7			54.7	
Approach LOS		A			A			D			D	

Intersection Summary			
HCM 2000 Control Delay	8.3	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.45		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	12.5
Intersection Capacity Utilization	56.6%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1015	21	79	1194	4	74
Future Volume (vph)	1015	21	79	1194	4	74
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.997				0.872	
Flt Protected				0.997	0.998	
Satd. Flow (prot)	3564	0	0	3531	1653	0
Flt Permitted				0.997	0.998	
Satd. Flow (perm)	3564	0	0	3531	1653	0
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		35	35		9	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	1%	0%	1%	2%	0%	0%
Adj. Flow (vph)	1080	22	84	1270	4	79
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1102	0	0	1354	83	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	79.3%	ICU Level of Service	D
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1015	21	79	1194	4	74
Future Volume (Veh/h)	1015	21	79	1194	4	74
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	1080	22	84	1270	4	79
Pedestrians	9			1	35	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	1			0	3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.92		0.92	0.92
vC, conflicting volume			1137		1938	587
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			970		1843	370
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			87		92	86
cM capacity (veh/h)			635		52	563

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	720	382	507	847	83
Volume Left	0	0	84	0	4
Volume Right	0	22	0	0	79
cSH	1700	1700	635	1700	383
Volume to Capacity	0.42	0.22	0.13	0.50	0.22
Queue Length 95th (m)	0.0	0.0	3.6	0.0	6.5
Control Delay (s)	0.0	0.0	3.6	0.0	17.0
Lane LOS			A		C
Approach Delay (s)	0.0		1.4		17.0
Approach LOS					C

Intersection Summary			
Average Delay	1.3		
Intersection Capacity Utilization	79.3%	ICU Level of Service	D
Analysis Period (min)	15		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1015	21	79	1194	4	74
Future Volume (vph)	1015	21	79	1194	4	74
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.997					0.850
Flt Protected				0.997	0.950	
Satd. Flow (prot)	3564	0	0	3531	1805	1615
Flt Permitted				0.997	0.950	
Satd. Flow (perm)	3564	0	0	3531	1805	1615
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		35	35		9	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	1%	0%	1%	2%	0%	0%
Adj. Flow (vph)	1080	22	84	1270	4	79
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1102	0	0	1354	4	79
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	77.7%	ICU Level of Service	D
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1015	21	79	1194	4	74
Future Volume (Veh/h)	1015	21	79	1194	4	74
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	1080	22	84	1270	4	79
Pedestrians	9			1	35	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	1			0	3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.92		0.92	0.92
vC, conflicting volume			1137		1938	587
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			970		1843	370
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			87		92	86
cM capacity (veh/h)			635		52	563

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2
Volume Total	720	382	507	847	4	79
Volume Left	0	0	84	0	4	0
Volume Right	0	22	0	0	0	79
cSH	1700	1700	635	1700	52	563
Volume to Capacity	0.42	0.22	0.13	0.50	0.08	0.14
Queue Length 95th (m)	0.0	0.0	3.6	0.0	1.9	3.9
Control Delay (s)	0.0	0.0	3.6	0.0	79.6	12.4
Lane LOS			A		F	B
Approach Delay (s)	0.0		1.4		15.7	
Approach LOS					C	

Intersection Summary			
Average Delay	1.2		
Intersection Capacity Utilization	77.7%	ICU Level of Service	D
Analysis Period (min)	15		

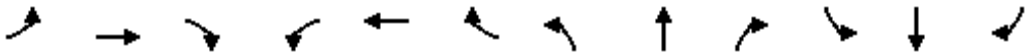
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	2	17	2	0	16	4
Future Volume (vph)	2	17	2	0	16	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt	0.881					
Flt Protected	0.994					0.962
Satd. Flow (prot)	1664	0	1900	0	0	1828
Flt Permitted	0.994					0.962
Satd. Flow (perm)	1664	0	1900	0	0	1828
Link Speed (k/h)	50		50			50
Link Distance (m)	246.0		102.9			216.2
Travel Time (s)	17.7		7.4			15.6
Confl. Peds. (#/hr)	6	29				
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	4	30	4	0	28	7
Shared Lane Traffic (%)						
Lane Group Flow (vph)	34	0	4	0	0	35
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	3.6		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	24.0%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	2	17	2	0	16	4
Future Volume (Veh/h)	2	17	2	0	16	4
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Hourly flow rate (vph)	4	30	4	0	28	7
Pedestrians			6			29
Lane Width (m)			3.6			3.6
Walking Speed (m/s)			1.2			1.2
Percent Blockage			1			2
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (m)						216
pX, platoon unblocked						
vC, conflicting volume	73	33			4	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	73	33			4	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	97			98	
cM capacity (veh/h)	915	1021			1631	

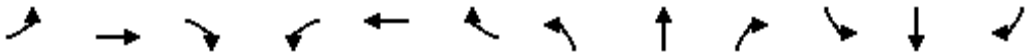
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	34	4	35
Volume Left	4	0	28
Volume Right	30	0	0
cSH	1007	1700	1631
Volume to Capacity	0.03	0.00	0.02
Queue Length 95th (m)	0.8	0.0	0.4
Control Delay (s)	8.7	0.0	5.8
Lane LOS	A		A
Approach Delay (s)	8.7	0.0	5.8
Approach LOS	A		

Intersection Summary			
Average Delay	6.8		
Intersection Capacity Utilization	24.0%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	11	9	4	1	4	8	3	7	2	8	16	9
Future Volume (vph)	11	9	4	1	4	8	3	7	2	8	16	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.979			0.913			0.975			0.963	
Flt Protected		0.977			0.997			0.988			0.988	
Satd. Flow (prot)	0	1744	0	0	1729	0	0	1697	0	0	1652	0
Flt Permitted		0.977			0.997			0.988			0.988	
Satd. Flow (perm)	0	1744	0	0	1729	0	0	1697	0	0	1652	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		246.0			233.0			138.8			216.1	
Travel Time (s)		17.7			16.8			10.0			15.6	
Confl. Peds. (#/hr)	22		1	1		22	22		1	1		22
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles (%)	9%	0%	0%	0%	0%	0%	0%	14%	0%	13%	13%	0%
Adj. Flow (vph)	15	12	5	1	5	11	4	9	3	11	21	12
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	32	0	0	17	0	0	16	0	0	44	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

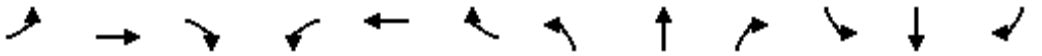
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 23.7%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	11	9	4	1	4	8	3	7	2	8	16	9
Future Volume (vph)	11	9	4	1	4	8	3	7	2	8	16	9
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Hourly flow rate (vph)	15	12	5	1	5	11	4	9	3	11	21	12

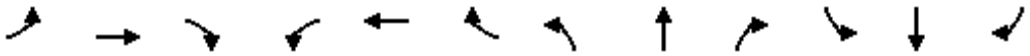
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	32	17	16	44
Volume Left (vph)	15	1	4	11
Volume Right (vph)	5	11	3	12
Hadj (s)	0.07	-0.38	0.07	0.05
Departure Headway (s)	4.1	3.7	4.1	4.1
Degree Utilization, x	0.04	0.02	0.02	0.05
Capacity (veh/h)	856	955	850	870
Control Delay (s)	7.3	6.7	7.2	7.3
Approach Delay (s)	7.3	6.7	7.2	7.3
Approach LOS	A	A	A	A

Intersection Summary				
Delay			7.2	
Level of Service			A	
Intersection Capacity Utilization			23.7%	ICU Level of Service
Analysis Period (min)			15	



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	15	3	1	11	24	1	16	0	7	15	4
Future Volume (vph)	2	15	3	1	11	24	1	16	0	7	15	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.981			0.909						0.978	
Flt Protected		0.995			0.999			0.998			0.987	
Satd. Flow (prot)	0	1760	0	0	1725	0	0	1896	0	0	1640	0
Flt Permitted		0.995			0.999			0.998			0.987	
Satd. Flow (perm)	0	1760	0	0	1725	0	0	1896	0	0	1640	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		233.0			228.0			131.6			216.1	
Travel Time (s)		16.8			16.4			9.5			15.6	
Confl. Peds. (#/hr)	6		1	1		6	9		3	3		9
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Heavy Vehicles (%)	50%	0%	0%	0%	0%	0%	0%	0%	0%	29%	7%	0%
Adj. Flow (vph)	3	21	4	1	15	33	1	22	0	10	21	6
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	28	0	0	49	0	0	23	0	0	37	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

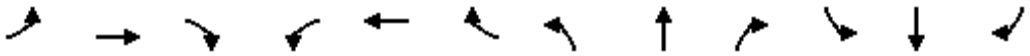
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 18.1%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	2	15	3	1	11	24	1	16	0	7	15	4
Future Volume (vph)	2	15	3	1	11	24	1	16	0	7	15	4
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Hourly flow rate (vph)	3	21	4	1	15	33	1	22	0	10	21	6

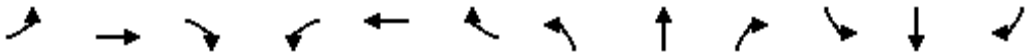
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	28	49	23	37
Volume Left (vph)	3	1	1	10
Volume Right (vph)	4	33	0	6
Hadj (s)	0.03	-0.40	0.01	0.16
Departure Headway (s)	4.1	3.7	4.1	4.2
Degree Utilization, x	0.03	0.05	0.03	0.04
Capacity (veh/h)	857	962	849	830
Control Delay (s)	7.2	6.9	7.2	7.4
Approach Delay (s)	7.2	6.9	7.2	7.4
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.1			
Level of Service	A			
Intersection Capacity Utilization	18.1%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	11	14	1	1	28	33	1	28	2	33	38	9
Future Volume (vph)	11	14	1	1	28	33	1	28	2	33	38	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.996			0.928			0.991			0.985	
Flt Protected		0.979			0.999			0.999			0.980	
Satd. Flow (prot)	0	1719	0	0	1761	0	0	1815	0	0	1834	0
Flt Permitted		0.979			0.999			0.999			0.980	
Satd. Flow (perm)	0	1719	0	0	1761	0	0	1815	0	0	1834	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		228.0			132.1			169.2			216.1	
Travel Time (s)		16.4			9.5			12.2			15.6	
Confl. Peds. (#/hr)	5		2	2		5			11	11		
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Heavy Vehicles (%)	18%	0%	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%
Adj. Flow (vph)	16	20	1	1	40	47	1	40	3	47	54	13
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	37	0	0	88	0	0	44	0	0	114	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

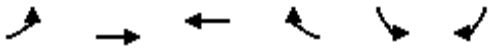
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 26.1%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	11	14	1	1	28	33	1	28	2	33	38	9
Future Volume (vph)	11	14	1	1	28	33	1	28	2	33	38	9
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Hourly flow rate (vph)	16	20	1	1	40	47	1	40	3	47	54	13

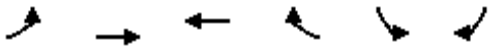
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	37	88	44	114
Volume Left (vph)	16	1	1	47
Volume Right (vph)	1	47	3	13
Hadj (s)	0.20	-0.32	0.03	0.01
Departure Headway (s)	4.5	4.0	4.3	4.2
Degree Utilization, x	0.05	0.10	0.05	0.13
Capacity (veh/h)	757	867	796	824
Control Delay (s)	7.8	7.4	7.6	7.9
Approach Delay (s)	7.8	7.4	7.6	7.9
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.7			
Level of Service	A			
Intersection Capacity Utilization	26.1%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	26	1008	1128	21	5	36
Future Volume (vph)	26	1008	1128	21	5	36
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.997		0.881	
Flt Protected		0.999			0.994	
Satd. Flow (prot)	0	3534	3564	0	1664	0
Flt Permitted		0.999			0.994	
Satd. Flow (perm)	0	3534	3564	0	1664	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		168.4	105.4		179.3	
Travel Time (s)		12.1	7.6		12.9	
Confl. Peds. (#/hr)	34			34	4	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	4%	2%	1%	0%	0%	0%
Adj. Flow (vph)	27	1061	1187	22	5	38
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1088	1209	0	43	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	100			100	100	100
Sign Control		Free	Free		Stop	

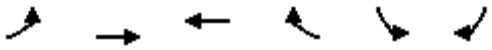
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 56.9%		ICU Level of Service B	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	26	1008	1128	21	5	36
Future Volume (Veh/h)	26	1008	1128	21	5	36
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	27	1061	1187	22	5	38
Pedestrians		1	4		34	
Lane Width (m)		3.6	3.6		3.6	
Walking Speed (m/s)		1.2	1.2		1.2	
Percent Blockage		0	0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)			105			
pX, platoon unblocked	0.78				0.78	0.78
vC, conflicting volume	1243				1820	640
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	739				1482	0
tC, single (s)	4.2				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	96				94	95
cM capacity (veh/h)	642				85	823

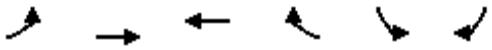
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	381	707	791	418	43
Volume Left	27	0	0	0	5
Volume Right	0	0	0	22	38
cSH	642	1700	1700	1700	410
Volume to Capacity	0.04	0.42	0.47	0.25	0.10
Queue Length 95th (m)	1.1	0.0	0.0	0.0	2.8
Control Delay (s)	1.3	0.0	0.0	0.0	14.8
Lane LOS	A				B
Approach Delay (s)	0.5		0.0		14.8
Approach LOS					B

Intersection Summary			
Average Delay	0.5		
Intersection Capacity Utilization	56.9%	ICU Level of Service	B
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	24	943	1071	33	7	34
Future Volume (vph)	24	943	1071	33	7	34
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.995		0.889	
Flt Protected		0.999			0.991	
Satd. Flow (prot)	0	3537	3592	0	1634	0
Flt Permitted		0.999			0.991	
Satd. Flow (perm)	0	3537	3592	0	1634	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		99.3	147.4		181.8	
Travel Time (s)		7.1	10.6		13.1	
Confl. Peds. (#/hr)	25			25	2	4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	2%	0%	0%	0%	3%
Adj. Flow (vph)	26	1025	1164	36	8	37
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1051	1200	0	45	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	100			100	100	100
Sign Control		Free	Free		Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 54.5%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	24	943	1071	33	7	34
Future Volume (Veh/h)	24	943	1071	33	7	34
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	26	1025	1164	36	8	37
Pedestrians		4	2		25	
Lane Width (m)		3.6	3.6		3.6	
Walking Speed (m/s)		1.2	1.2		1.2	
Percent Blockage		0	0		2	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)		99	148			
pX, platoon unblocked	0.91				0.87	0.91
vC, conflicting volume	1225				1774	629
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1047				1121	391
tC, single (s)	4.1				6.8	7.0
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	96				95	93
cM capacity (veh/h)	598				165	537

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	368	683	776	424	45
Volume Left	26	0	0	0	8
Volume Right	0	0	0	36	37
cSH	598	1700	1700	1700	384
Volume to Capacity	0.04	0.40	0.46	0.25	0.12
Queue Length 95th (m)	1.1	0.0	0.0	0.0	3.2
Control Delay (s)	1.4	0.0	0.0	0.0	15.6
Lane LOS	A				C
Approach Delay (s)	0.5		0.0		15.6
Approach LOS					C

Intersection Summary			
Average Delay	0.5		
Intersection Capacity Utilization	54.5%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection: 6: Cumberland Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	12.7	9.2	16.0	19.4
Average Queue (m)	5.2	3.2	3.1	6.4
95th Queue (m)	12.8	10.1	11.1	15.1
Link Distance (m)	229.0	214.4	130.3	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 7: Hiawatha Parkway & Wanita Road

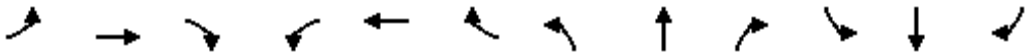
Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	15.4	9.3	9.2	17.3
Average Queue (m)	4.1	6.1	4.5	5.4
95th Queue (m)	12.0	12.9	11.9	14.1
Link Distance (m)	214.4	209.3	123.2	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: Wenonah Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	14.5	14.9	11.8	13.4
Average Queue (m)	5.1	7.8	5.9	8.3
95th Queue (m)	13.3	13.7	13.3	13.2
Link Distance (m)	209.3	123.7	160.8	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

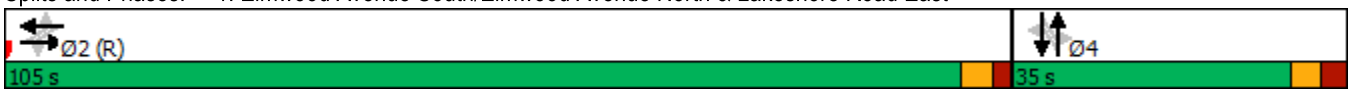


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	28	1195	16	5	1084	19	12	9	7	19	5	18
Future Volume (vph)	28	1195	16	5	1084	19	12	9	7	19	5	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.97			0.96	
Frt		0.998			0.997			0.966			0.942	
Flt Protected		0.999						0.979			0.978	
Satd. Flow (prot)	0	3491	0	0	3490	0	0	1791	0	0	1447	0
Flt Permitted		0.892			0.949			0.902			0.886	
Satd. Flow (perm)	0	3116	0	0	3311	0	0	1599	0	0	1310	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			3			7			18	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		105.4			99.3			216.2			182.4	
Travel Time (s)		7.6			7.1			15.6			13.1	
Confl. Peds. (#/hr)	31		42	42		31	53		1	1		53
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	0%	3%	0%	0%	3%	0%	0%	0%	0%	24%	0%	13%
Adj. Flow (vph)	29	1219	16	5	1106	19	12	9	7	19	5	18
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1264	0	0	1130	0	0	28	0	0	42	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	27.5	27.5		27.5	27.5		35.0	35.0		35.0	35.0	
Total Split (s)	105.0	105.0		105.0	105.0		35.0	35.0		35.0	35.0	
Total Split (%)	75.0%	75.0%		75.0%	75.0%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)	99.5	99.5		99.5	99.5		29.0	29.0		29.0	29.0	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		3.0	3.0		3.0	3.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		5.5			5.5			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		Ped	Ped		Ped	Ped	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	12.0	12.0		12.0	12.0		19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		99.5			99.5			29.0			29.0	
Actuated g/C Ratio		0.71			0.71			0.21			0.21	
v/c Ratio		0.57			0.48			0.08			0.15	
Control Delay		11.1			7.6			37.0			31.1	
Queue Delay		0.0			0.1			0.0			0.0	
Total Delay		11.1			7.7			37.0			31.1	
LOS		B			A			D			C	
Approach Delay		11.1			7.7			37.0			31.1	
Approach LOS		B			A			D			C	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 3 (2%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 75			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.57			
Intersection Signal Delay: 10.2		Intersection LOS: B	
Intersection Capacity Utilization 87.4%		ICU Level of Service E	
Analysis Period (min) 15			

Splits and Phases: 1: Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East



Lane Group	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	1264	1130	28	42
v/c Ratio	0.57	0.48	0.08	0.15
Control Delay	11.1	7.6	37.0	31.1
Queue Delay	0.0	0.1	0.0	0.0
Total Delay	11.1	7.7	37.0	31.1
Queue Length 50th (m)	85.7	43.7	5.0	5.7
Queue Length 95th (m)	103.2	49.8	14.1	16.7
Internal Link Dist (m)	81.4	75.3	192.2	158.4
Turn Bay Length (m)				
Base Capacity (vph)	2215	2354	336	285
Starvation Cap Reductn	0	263	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.57	0.54	0.08	0.15

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	28	1195	16	5	1084	19	12	9	7	19	5	18
Future Volume (vph)	28	1195	16	5	1084	19	12	9	7	19	5	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5			5.5			6.0			6.0	
Lane Util. Factor		0.95			0.95			1.00			1.00	
Frpb, ped/bikes		1.00			1.00			1.00			0.96	
Flpb, ped/bikes		1.00			1.00			0.97			1.00	
Frt		1.00			1.00			0.97			0.94	
Flt Protected		1.00			1.00			0.98			0.98	
Satd. Flow (prot)		3490			3490			1736			1446	
Flt Permitted		0.89			0.95			0.90			0.89	
Satd. Flow (perm)		3115			3314			1599			1311	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	29	1219	16	5	1106	19	12	9	7	19	5	18
RTOR Reduction (vph)	0	1	0	0	1	0	0	6	0	0	14	0
Lane Group Flow (vph)	0	1263	0	0	1129	0	0	22	0	0	28	0
Confl. Peds. (#/hr)	31		42	42		31	53		1	1		53
Heavy Vehicles (%)	0%	3%	0%	0%	3%	0%	0%	0%	0%	24%	0%	13%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)		99.5			99.5			29.0			29.0	
Effective Green, g (s)		99.5			99.5			29.0			29.0	
Actuated g/C Ratio		0.71			0.71			0.21			0.21	
Clearance Time (s)		5.5			5.5			6.0			6.0	
Vehicle Extension (s)		3.0			3.0			3.0			3.0	
Lane Grp Cap (vph)		2213			2355			331			271	
v/s Ratio Prot												
v/s Ratio Perm		c0.41			0.34			0.01			c0.02	
v/c Ratio		0.57			0.48			0.07			0.10	
Uniform Delay, d1		9.9			8.9			44.6			45.0	
Progression Factor		1.00			0.77			1.00			1.00	
Incremental Delay, d2		1.1			0.7			0.1			0.2	
Delay (s)		10.9			7.5			44.7			45.1	
Level of Service		B			A			D			D	
Approach Delay (s)		10.9			7.5			44.7			45.1	
Approach LOS		B			A			D			D	

Intersection Summary			
HCM 2000 Control Delay	10.3	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.46		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	11.5
Intersection Capacity Utilization	87.4%	ICU Level of Service	E
Analysis Period (min)	15		

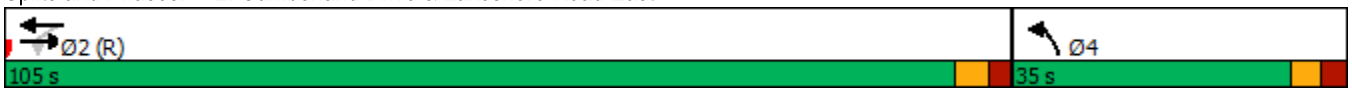
c Critical Lane Group

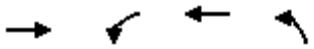
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1173	25	20	1094	21	17
Future Volume (vph)	1173	25	20	1094	21	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)		0.0	10.0		0.0	0.0
Storage Lanes		0	1		1	0
Taper Length (m)			37.0		7.5	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00		0.99		0.98	
Frt	0.997				0.940	
Flt Protected			0.950		0.973	
Satd. Flow (prot)	3484	0	1703	3471	1709	0
Flt Permitted			0.219		0.973	
Satd. Flow (perm)	3484	0	390	3471	1699	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	4				17	
Link Speed (k/h)	50			50	50	
Link Distance (m)	147.4			234.8	216.1	
Travel Time (s)	10.6			16.9	15.6	
Confl. Peds. (#/hr)		17	17		7	18
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	3%	9%	6%	4%	0%	0%
Adj. Flow (vph)	1197	26	20	1116	21	17
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1223	0	20	1116	38	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Number of Detectors	2		1	2	1	
Detector Template	Thru		Left	Thru	Left	
Leading Detector (m)	10.0		2.0	10.0	2.0	
Trailing Detector (m)	0.0		0.0	0.0	0.0	
Detector 1 Position(m)	0.0		0.0	0.0	0.0	
Detector 1 Size(m)	0.6		2.0	0.6	2.0	
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	
Detector 2 Position(m)	9.4			9.4		
Detector 2 Size(m)	0.6			0.6		
Detector 2 Type	Cl+Ex			Cl+Ex		
Detector 2 Channel						
Detector 2 Extend (s)	0.0			0.0		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Detector Phase	2		2	2	4	
Switch Phase						
Minimum Initial (s)	10.0		10.0	10.0	10.0	
Minimum Split (s)	26.0		26.0	26.0	35.0	
Total Split (s)	105.0		105.0	105.0	35.0	
Total Split (%)	75.0%		75.0%	75.0%	25.0%	
Maximum Green (s)	99.0		99.0	99.0	29.0	
Yellow Time (s)	3.5		3.5	3.5	3.0	
All-Red Time (s)	2.5		2.5	2.5	3.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.0		6.0	6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	10.0		10.0	10.0	10.0	
Flash Dont Walk (s)	10.0		10.0	10.0	19.0	
Pedestrian Calls (#/hr)	0		0	0	0	
Act Effct Green (s)	122.3		122.3	122.3	10.1	
Actuated g/C Ratio	0.87		0.87	0.87	0.07	
v/c Ratio	0.40		0.06	0.37	0.28	
Control Delay	1.1		2.1	2.4	44.8	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	1.1		2.1	2.4	44.8	
LOS	A		A	A	D	
Approach Delay	1.1			2.4	44.8	
Approach LOS	A			A	D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 17 (12%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.40			
Intersection Signal Delay: 2.4		Intersection LOS: A	
Intersection Capacity Utilization 58.7%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Cumberland Drive & Lakeshore Road East





Lane Group	EBT	WBL	WBT	NBL
Lane Group Flow (vph)	1223	20	1116	38
v/c Ratio	0.40	0.06	0.37	0.28
Control Delay	1.1	2.1	2.4	44.8
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	1.1	2.1	2.4	44.8
Queue Length 50th (m)	9.7	0.7	28.5	5.9
Queue Length 95th (m)	11.5	m1.7	34.4	18.0
Internal Link Dist (m)	123.4		210.8	192.1
Turn Bay Length (m)		10.0		
Base Capacity (vph)	3044	340	3032	367
Starvation Cap Reductn	314	0	267	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.45	0.06	0.40	0.10

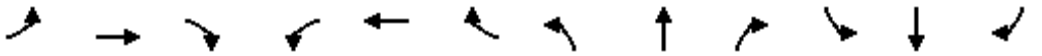
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1173	25	20	1094	21	17
Future Volume (vph)	1173	25	20	1094	21	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	6.0	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	0.98	
Flpb, ped/bikes	1.00		0.99	1.00	1.00	
Frt	1.00		1.00	1.00	0.94	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3484		1687	3471	1708	
Flt Permitted	1.00		0.22	1.00	0.97	
Satd. Flow (perm)	3484		390	3471	1708	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	1197	26	20	1116	21	17
RTOR Reduction (vph)	1	0	0	0	16	0
Lane Group Flow (vph)	1222	0	20	1116	22	0
Confl. Peds. (#/hr)		17	17		7	18
Heavy Vehicles (%)	3%	9%	6%	4%	0%	0%
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Actuated Green, G (s)	119.9		119.9	119.9	8.1	
Effective Green, g (s)	119.9		119.9	119.9	8.1	
Actuated g/C Ratio	0.86		0.86	0.86	0.06	
Clearance Time (s)	6.0		6.0	6.0	6.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	2983		334	2972	98	
v/s Ratio Prot	c0.35			0.32	c0.01	
v/s Ratio Perm			0.05			
v/c Ratio	0.41		0.06	0.38	0.22	
Uniform Delay, d1	2.2		1.5	2.1	63.0	
Progression Factor	0.32		0.95	0.92	1.00	
Incremental Delay, d2	0.4		0.3	0.3	1.2	
Delay (s)	1.1		1.8	2.3	64.1	
Level of Service	A		A	A	E	
Approach Delay (s)	1.1			2.3	64.1	
Approach LOS	A			A	E	

Intersection Summary			
HCM 2000 Control Delay	2.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.40		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	12.0
Intersection Capacity Utilization	58.7%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

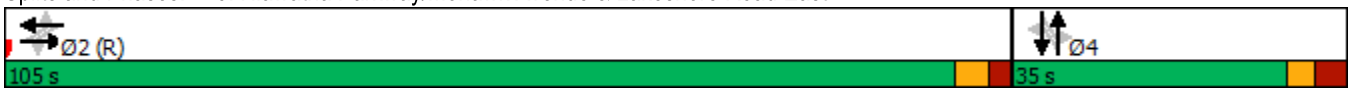


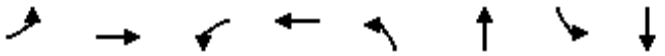
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	16	1075	16	24	972	24	51	5	33	172	8	17
Future Volume (vph)	16	1075	16	24	972	24	51	5	33	172	8	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	16.0		0.0	15.0		0.0	30.0		0.0	0.0		0.0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (m)	35.0			31.0			30.0			15.0		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		1.00	1.00		0.99	0.97		0.98	0.98	
Frt		0.998			0.996			0.871			0.898	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1687	3460	0	1719	3415	0	1770	1510	0	1787	1605	0
Flt Permitted	0.225			0.197			0.739			0.729		
Satd. Flow (perm)	396	3460	0	355	3415	0	1359	1510	0	1337	1605	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		3			4			37			19	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		234.8			228.8			216.1			35.6	
Travel Time (s)		16.9			16.5			15.6			2.6	
Confl. Peds. (#/hr)	15		11	11		15	10		20	20		10
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	7%	4%	7%	5%	5%	10%	2%	0%	7%	1%	14%	0%
Adj. Flow (vph)	18	1208	18	27	1092	27	57	6	37	193	9	19
Shared Lane Traffic (%)												
Lane Group Flow (vph)	18	1226	0	27	1119	0	57	43	0	193	28	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.6			3.6			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	31.0	31.0		31.0	31.0		38.5	38.5		38.5	38.5	
Total Split (s)	105.0	105.0		105.0	105.0		35.0	35.0		35.0	35.0	
Total Split (%)	75.0%	75.0%		75.0%	75.0%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)	99.0	99.0		99.0	99.0		28.5	28.5		28.5	28.5	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.5	2.5		2.5	2.5		3.5	3.5		3.5	3.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	15.0	15.0		15.0	15.0		22.0	22.0		22.0	22.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	103.3	103.3		103.3	103.3		24.2	24.2		24.2	24.2	
Actuated g/C Ratio	0.74	0.74		0.74	0.74		0.17	0.17		0.17	0.17	
v/c Ratio	0.06	0.48		0.10	0.44		0.24	0.15		0.84	0.10	
Control Delay	2.1	2.3		7.3	8.2		51.0	17.7		84.3	24.1	
Queue Delay	0.0	0.1		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	2.1	2.4		7.3	8.2		51.0	17.7		84.3	24.1	
LOS	A	A		A	A		D	B		F	C	
Approach Delay		2.4			8.2			36.7			76.7	
Approach LOS		A			A			D			E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 36 (26%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 70			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.84			
Intersection Signal Delay: 12.2		Intersection LOS: B	
Intersection Capacity Utilization 59.8%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 3: Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East

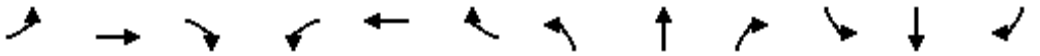




Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	18	1226	27	1119	57	43	193	28
v/c Ratio	0.06	0.48	0.10	0.44	0.24	0.15	0.84	0.10
Control Delay	2.1	2.3	7.3	8.2	51.0	17.7	84.3	24.1
Queue Delay	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	2.1	2.4	7.3	8.2	51.0	17.7	84.3	24.1
Queue Length 50th (m)	0.4	15.8	2.1	62.3	14.3	1.5	54.3	2.2
Queue Length 95th (m)	m1.2	19.4	5.9	79.8	27.2	12.1	#82.3	10.9
Internal Link Dist (m)		210.8		204.8		192.1		11.6
Turn Bay Length (m)	16.0		15.0		30.0			
Base Capacity (vph)	292	2554	262	2521	276	336	272	341
Starvation Cap Reductn	0	250	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.06	0.53	0.10	0.44	0.21	0.13	0.71	0.08

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	16	1075	16	24	972	24	51	5	33	172	8	17
Future Volume (vph)	16	1075	16	24	972	24	51	5	33	172	8	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00		1.00	0.97		1.00	0.98	
Flpb, ped/bikes	0.99	1.00		1.00	1.00		0.99	1.00		0.98	1.00	
Frt	1.00	1.00		1.00	1.00		1.00	0.87		1.00	0.90	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1675	3459		1712	3417		1747	1510		1743	1606	
Flt Permitted	0.23	1.00		0.20	1.00		0.74	1.00		0.73	1.00	
Satd. Flow (perm)	397	3459		354	3417		1359	1510		1337	1606	
Peak-hour factor, PHF	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	18	1208	18	27	1092	27	57	6	37	193	9	19
RTOR Reduction (vph)	0	1	0	0	1	0	0	31	0	0	16	0
Lane Group Flow (vph)	18	1225	0	27	1118	0	57	12	0	193	12	0
Confl. Peds. (#/hr)	15		11	11		15	10		20	20		10
Heavy Vehicles (%)	7%	4%	7%	5%	5%	10%	2%	0%	7%	1%	14%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)	103.3	103.3		103.3	103.3		24.2	24.2		24.2	24.2	
Effective Green, g (s)	103.3	103.3		103.3	103.3		24.2	24.2		24.2	24.2	
Actuated g/C Ratio	0.74	0.74		0.74	0.74		0.17	0.17		0.17	0.17	
Clearance Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	292	2552		261	2521		234	261		231	277	
v/s Ratio Prot		c0.35			0.33			0.01			0.01	
v/s Ratio Perm	0.05			0.08			0.04			c0.14		
v/c Ratio	0.06	0.48		0.10	0.44		0.24	0.05		0.84	0.04	
Uniform Delay, d1	5.0	7.4		5.2	7.1		50.0	48.3		56.0	48.3	
Progression Factor	0.26	0.21		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.4	0.6		0.8	0.6		0.5	0.1		22.2	0.1	
Delay (s)	1.7	2.2		6.0	7.7		50.5	48.4		78.1	48.3	
Level of Service	A	A		A	A		D	D		E	D	
Approach Delay (s)		2.2			7.7			49.6			74.4	
Approach LOS		A			A			D			E	

Intersection Summary			
HCM 2000 Control Delay	12.1	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.55		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	12.5
Intersection Capacity Utilization	59.8%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1285	37	92	1090	0	108
Future Volume (vph)	1285	37	92	1090	0	108
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.996				0.865	
Flt Protected				0.996		
Satd. Flow (prot)	3491	0	0	3455	1565	0
Flt Permitted				0.996		
Satd. Flow (perm)	3491	0	0	3455	1565	0
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		21	21		1	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	3%	3%	5%	4%	0%	5%
Adj. Flow (vph)	1412	41	101	1198	0	119
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1453	0	0	1299	119	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 89.1%		ICU Level of Service E	
Analysis Period (min) 15			

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1285	37	92	1090	0	108
Future Volume (Veh/h)	1285	37	92	1090	0	108
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (vph)	1412	41	101	1198	0	119
Pedestrians	1			11	21	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	0			1	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.85		0.85	0.85
vC, conflicting volume			1474		2256	758
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1209		2126	370
tC, single (s)			4.2		6.8	7.0
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			78		100	77
cM capacity (veh/h)			466		29	513

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	941	512	500	799	119
Volume Left	0	0	101	0	0
Volume Right	0	41	0	0	119
cSH	1700	1700	466	1700	513
Volume to Capacity	0.55	0.30	0.22	0.47	0.23
Queue Length 95th (m)	0.0	0.0	6.5	0.0	7.1
Control Delay (s)	0.0	0.0	6.4	0.0	14.1
Lane LOS			A		B
Approach Delay (s)	0.0		2.5		14.1
Approach LOS					B

Intersection Summary			
Average Delay	1.7		
Intersection Capacity Utilization	89.1%	ICU Level of Service	E
Analysis Period (min)	15		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1285	37	92	1090	0	108
Future Volume (vph)	1285	37	92	1090	0	108
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.996					0.850
Flt Protected				0.996		
Satd. Flow (prot)	3491	0	0	3455	1900	1538
Flt Permitted				0.996		
Satd. Flow (perm)	3491	0	0	3455	1900	1538
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		21	21		1	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	3%	3%	5%	4%	0%	5%
Adj. Flow (vph)	1412	41	101	1198	0	119
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1453	0	0	1299	0	119
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	86.0%	ICU Level of Service	E
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1285	37	92	1090	0	108
Future Volume (Veh/h)	1285	37	92	1090	0	108
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (vph)	1412	41	101	1198	0	119
Pedestrians	1			11	21	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	0			1	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.85		0.85	0.85
vC, conflicting volume			1474		2256	758
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1209		2126	370
tC, single (s)			4.2		6.8	7.0
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			78		100	77
cM capacity (veh/h)			466		29	513

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2
Volume Total	941	512	500	799	0	119
Volume Left	0	0	101	0	0	0
Volume Right	0	41	0	0	0	119
cSH	1700	1700	466	1700	1700	513
Volume to Capacity	0.55	0.30	0.22	0.47	0.13	0.23
Queue Length 95th (m)	0.0	0.0	6.5	0.0	0.0	7.1
Control Delay (s)	0.0	0.0	6.4	0.0	0.0	14.1
Lane LOS			A		A	B
Approach Delay (s)	0.0		2.5		14.1	
Approach LOS					B	

Intersection Summary			
Average Delay	1.7		
Intersection Capacity Utilization	86.0%	ICU Level of Service	E
Analysis Period (min)	15		

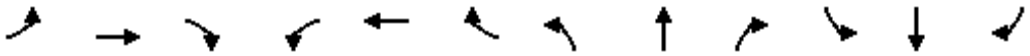
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	3	14	9	1	19	8
Future Volume (vph)	3	14	9	1	19	8
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt	0.889		0.986			
Flt Protected	0.991					0.966
Satd. Flow (prot)	1674	0	1873	0	0	1835
Flt Permitted	0.991					0.966
Satd. Flow (perm)	1674	0	1873	0	0	1835
Link Speed (k/h)	50		50			50
Link Distance (m)	246.0		102.9			216.2
Travel Time (s)	17.7		7.4			15.6
Confl. Peds. (#/hr)	10	22				
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	6	28	18	2	38	16
Shared Lane Traffic (%)						
Lane Group Flow (vph)	34	0	20	0	0	54
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	3.6		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 23.3%		ICU Level of Service A	
Analysis Period (min) 15			

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	3	14	9	1	19	8
Future Volume (Veh/h)	3	14	9	1	19	8
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50
Hourly flow rate (vph)	6	28	18	2	38	16
Pedestrians			10			22
Lane Width (m)			3.6			3.6
Walking Speed (m/s)			1.2			1.2
Percent Blockage			1			2
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (m)						216
pX, platoon unblocked						
vC, conflicting volume	121	41			20	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	121	41			20	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	97			98	
cM capacity (veh/h)	851	1017			1609	

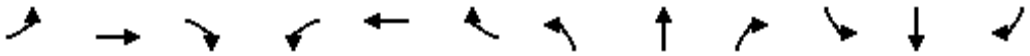
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	34	20	54
Volume Left	6	0	38
Volume Right	28	2	0
cSH	983	1700	1609
Volume to Capacity	0.03	0.01	0.02
Queue Length 95th (m)	0.9	0.0	0.6
Control Delay (s)	8.8	0.0	5.2
Lane LOS	A		A
Approach Delay (s)	8.8	0.0	5.2
Approach LOS	A		

Intersection Summary			
Average Delay	5.4		
Intersection Capacity Utilization	23.3%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	16	5	1	10	2	5	12	2	12	15	5
Future Volume (vph)	2	16	5	1	10	2	5	12	2	12	15	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.969			0.980			0.986			0.978	
Flt Protected		0.996			0.995			0.986			0.982	
Satd. Flow (prot)	0	1834	0	0	1853	0	0	1847	0	0	1647	0
Flt Permitted		0.996			0.995			0.986			0.982	
Satd. Flow (perm)	0	1834	0	0	1853	0	0	1847	0	0	1647	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		246.0			233.0			138.8			216.1	
Travel Time (s)		17.7			16.8			10.0			15.6	
Confl. Peds. (#/hr)	23		5	5		23	14		3	3		14
Peak Hour Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	23%	0%
Adj. Flow (vph)	3	24	8	2	15	3	8	18	3	18	23	8
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	35	0	0	20	0	0	29	0	0	49	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

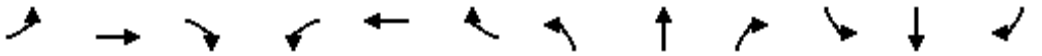
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 22.4%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	2	16	5	1	10	2	5	12	2	12	15	5
Future Volume (vph)	2	16	5	1	10	2	5	12	2	12	15	5
Peak Hour Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Hourly flow rate (vph)	3	24	8	2	15	3	8	18	3	18	23	8

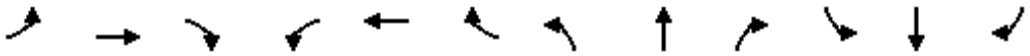
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	35	20	29	49
Volume Left (vph)	3	2	8	18
Volume Right (vph)	8	3	3	8
Hadj (s)	-0.12	-0.07	-0.01	0.16
Departure Headway (s)	4.0	4.0	4.1	4.2
Degree Utilization, x	0.04	0.02	0.03	0.06
Capacity (veh/h)	883	869	862	840
Control Delay (s)	7.1	7.1	7.2	7.5
Approach Delay (s)	7.1	7.1	7.2	7.5
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.3			
Level of Service	A			
Intersection Capacity Utilization	22.4%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	10	20	0	1	8	33	1	16	0	3	15	6
Future Volume (vph)	10	20	0	1	8	33	1	16	0	3	15	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt					0.893						0.966	
Flt Protected		0.983			0.999			0.998			0.994	
Satd. Flow (prot)	0	1868	0	0	1580	0	0	1777	0	0	1824	0
Flt Permitted		0.983			0.999			0.998			0.994	
Satd. Flow (perm)	0	1868	0	0	1580	0	0	1777	0	0	1824	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		233.0			228.0			131.6			216.1	
Travel Time (s)		16.8			16.4			9.5			15.6	
Confl. Peds. (#/hr)	5		1	1		5	12		14	14		12
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Heavy Vehicles (%)	0%	0%	0%	100%	0%	7%	0%	7%	0%	0%	0%	0%
Adj. Flow (vph)	14	27	0	1	11	45	1	22	0	4	20	8
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	41	0	0	57	0	0	23	0	0	32	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

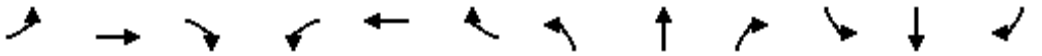
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 20.8%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	10	20	0	1	8	33	1	16	0	3	15	6
Future Volume (vph)	10	20	0	1	8	33	1	16	0	3	15	6
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Hourly flow rate (vph)	14	27	0	1	11	45	1	22	0	4	20	8

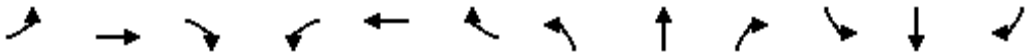
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	41	57	23	32
Volume Left (vph)	14	1	1	4
Volume Right (vph)	0	45	0	8
Hadj (s)	0.07	-0.35	0.12	-0.13
Departure Headway (s)	4.1	3.7	4.3	4.0
Degree Utilization, x	0.05	0.06	0.03	0.04
Capacity (veh/h)	851	949	816	874
Control Delay (s)	7.3	6.9	7.4	7.1
Approach Delay (s)	7.3	6.9	7.4	7.1
Approach LOS	A	A	A	A

Intersection Summary			
Delay	7.2		
Level of Service	A		
Intersection Capacity Utilization	20.8%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	16	1	1	26	59	6	24	1	78	23	10
Future Volume (vph)	9	16	1	1	26	59	6	24	1	78	23	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.994			0.907			0.995			0.988	
Flt Protected		0.983			0.999			0.990			0.966	
Satd. Flow (prot)	0	1707	0	0	1635	0	0	1868	0	0	1708	0
Flt Permitted		0.983			0.999			0.990			0.966	
Satd. Flow (perm)	0	1707	0	0	1635	0	0	1868	0	0	1708	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		228.0			132.1			169.2			216.1	
Travel Time (s)		16.4			9.5			12.2			15.6	
Confl. Peds. (#/hr)	4		3	3		4	1		18	18		1
Peak Hour Factor	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Heavy Vehicles (%)	13%	7%	0%	0%	4%	6%	1%	0%	0%	3%	10%	22%
Adj. Flow (vph)	15	27	2	2	43	98	10	40	2	130	38	17
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	44	0	0	143	0	0	52	0	0	185	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

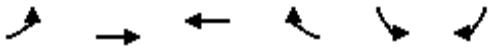
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 27.4%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	9	16	1	1	26	59	6	24	1	78	23	10
Future Volume (vph)	9	16	1	1	26	59	6	24	1	78	23	10
Peak Hour Factor	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Hourly flow rate (vph)	15	27	2	2	43	98	10	40	2	130	38	17

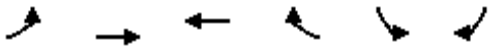
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	44	143	52	185
Volume Left (vph)	15	2	10	130
Volume Right (vph)	2	98	2	17
Hadj (s)	0.19	-0.32	0.02	0.19
Departure Headway (s)	4.8	4.2	4.6	4.6
Degree Utilization, x	0.06	0.17	0.07	0.24
Capacity (veh/h)	693	801	742	748
Control Delay (s)	8.1	8.1	7.9	9.0
Approach Delay (s)	8.1	8.1	7.9	9.0
Approach LOS	A	A	A	A

Intersection Summary				
Delay	8.4			
Level of Service	A			
Intersection Capacity Utilization	27.4%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	132	1060	981	15	5	78
Future Volume (vph)	132	1060	981	15	5	78
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.998		0.874	
Flt Protected		0.994			0.997	
Satd. Flow (prot)	0	3488	3499	0	1596	0
Flt Permitted		0.994			0.997	
Satd. Flow (perm)	0	3488	3499	0	1596	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		168.4	105.4		179.3	
Travel Time (s)		12.1	7.6		12.9	
Confl. Peds. (#/hr)	40			40	4	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	2%	3%	3%	0%	0%	4%
Adj. Flow (vph)	147	1178	1090	17	6	87
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1325	1107	0	93	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

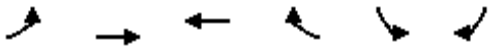
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	75.9%	ICU Level of Service	D
Analysis Period (min)	15		



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	132	1060	981	15	5	78
Future Volume (Veh/h)	132	1060	981	15	5	78
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	147	1178	1090	17	6	87
Pedestrians			4		40	
Lane Width (m)			3.6		3.6	
Walking Speed (m/s)			1.2		1.2	
Percent Blockage			0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)			105			
pX, platoon unblocked	0.86				0.86	0.86
vC, conflicting volume	1147				2026	594
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	850				1869	208
tC, single (s)	4.1				6.8	7.0
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	77				86	87
cM capacity (veh/h)	653				42	660

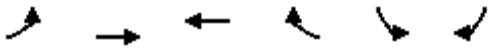
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	540	785	727	380	93
Volume Left	147	0	0	0	6
Volume Right	0	0	0	17	87
cSH	653	1700	1700	1700	339
Volume to Capacity	0.23	0.46	0.43	0.22	0.27
Queue Length 95th (m)	6.9	0.0	0.0	0.0	8.8
Control Delay (s)	5.9	0.0	0.0	0.0	19.6
Lane LOS	A				C
Approach Delay (s)	2.4		0.0		19.6
Approach LOS					C

Intersection Summary			
Average Delay	2.0		
Intersection Capacity Utilization	75.9%	ICU Level of Service	D
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	14	1041	910	8	7	28
Future Volume (vph)	14	1041	910	8	7	28
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.999		0.891	
Flt Protected		0.999			0.990	
Satd. Flow (prot)	0	3499	3461	0	1676	0
Flt Permitted		0.999			0.990	
Satd. Flow (perm)	0	3499	3461	0	1676	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		99.3	147.4		181.8	
Travel Time (s)		7.1	10.6		13.1	
Confl. Peds. (#/hr)	40			40	1	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	8%	3%	4%	29%	0%	0%
Adj. Flow (vph)	15	1084	948	8	7	29
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1099	956	0	36	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	48.7%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	14	1041	910	8	7	28
Future Volume (Veh/h)	14	1041	910	8	7	28
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Hourly flow rate (vph)	15	1084	948	8	7	29
Pedestrians			1		40	
Lane Width (m)			3.6		3.6	
Walking Speed (m/s)			1.2		1.2	
Percent Blockage			0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)		99	148			
pX, platoon unblocked	0.95				0.87	0.95
vC, conflicting volume	996				1565	518
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	882				1070	377
tC, single (s)	4.3				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.3				3.5	3.3
p0 queue free %	98				96	95
cM capacity (veh/h)	664				180	573

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	376	723	632	324	36
Volume Left	15	0	0	0	7
Volume Right	0	0	0	8	29
cSH	664	1700	1700	1700	402
Volume to Capacity	0.02	0.43	0.37	0.19	0.09
Queue Length 95th (m)	0.6	0.0	0.0	0.0	2.3
Control Delay (s)	0.7	0.0	0.0	0.0	14.8
Lane LOS	A				B
Approach Delay (s)	0.2		0.0		14.8
Approach LOS					B

Intersection Summary			
Average Delay	0.4		
Intersection Capacity Utilization	48.7%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection: 6: Cumberland Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	10.7	9.3	9.2	16.7
Average Queue (m)	4.8	3.2	5.1	6.8
95th Queue (m)	12.4	10.3	12.5	15.2
Link Distance (m)	229.0	214.4	130.3	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 7: Hiawatha Parkway & Wanita Road

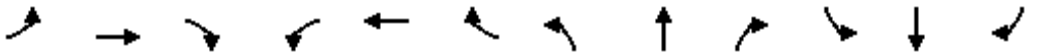
Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	10.6	18.0	12.9	9.2
Average Queue (m)	6.0	7.4	3.8	4.7
95th Queue (m)	13.2	15.0	11.7	12.0
Link Distance (m)	214.4	209.3	123.2	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: Wenonah Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	18.1	22.3	10.4	21.4
Average Queue (m)	6.0	10.2	5.9	10.4
95th Queue (m)	15.4	17.1	13.1	16.2
Link Distance (m)	209.3	123.7	160.8	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

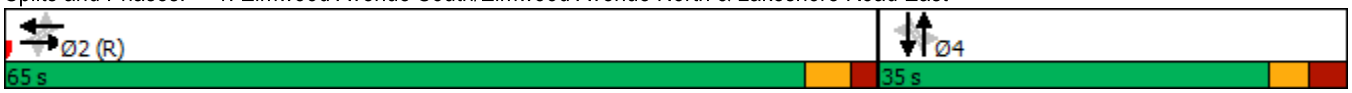


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	17	1075	14	2	1276	25	7	2	8	8	1	17
Future Volume (vph)	17	1075	14	2	1276	25	7	2	8	8	1	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.98			0.97	
Frt		0.998			0.997			0.936			0.910	
Flt Protected		0.999						0.980			0.985	
Satd. Flow (prot)	0	3560	0	0	3554	0	0	1732	0	0	1646	0
Flt Permitted		0.916			0.954			0.931			0.948	
Satd. Flow (perm)	0	3264	0	0	3391	0	0	1620	0	0	1583	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			3			8			18	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		105.4			99.3			216.2			182.4	
Travel Time (s)		7.6			7.1			15.6			13.1	
Confl. Peds. (#/hr)	58		31	31		58	38		1	1		38
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	18	1120	15	2	1329	26	7	2	8	8	1	18
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1153	0	0	1357	0	0	17	0	0	27	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	27.5	27.5		27.5	27.5		35.0	35.0		35.0	35.0	
Total Split (s)	65.0	65.0		65.0	65.0		35.0	35.0		35.0	35.0	
Total Split (%)	65.0%	65.0%		65.0%	65.0%		35.0%	35.0%		35.0%	35.0%	
Maximum Green (s)	59.5	59.5		59.5	59.5		29.0	29.0		29.0	29.0	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		3.0	3.0		3.0	3.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		5.5			5.5			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		Ped	Ped		Ped	Ped	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	12.0	12.0		12.0	12.0		19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		59.5			59.5			29.0			29.0	
Actuated g/C Ratio		0.60			0.60			0.29			0.29	
v/c Ratio		0.59			0.67			0.04			0.06	
Control Delay		14.2			15.7			18.6			14.7	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		14.2			15.7			18.6			14.7	
LOS		B			B			B			B	
Approach Delay		14.2			15.7			18.6			14.7	
Approach LOS		B			B			B			B	

Intersection Summary			
Area Type:	Other		
Cycle Length: 100			
Actuated Cycle Length: 100			
Offset: 64 (64%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 70			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.67			
Intersection Signal Delay: 15.1		Intersection LOS: B	
Intersection Capacity Utilization 76.0%		ICU Level of Service D	
Analysis Period (min) 15			

Splits and Phases: 1: Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East



Lane Group	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	1153	1357	17	27
v/c Ratio	0.59	0.67	0.04	0.06
Control Delay	14.2	15.7	18.6	14.7
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	14.2	15.7	18.6	14.7
Queue Length 50th (m)	71.8	91.2	1.3	1.3
Queue Length 95th (m)	91.6	114.7	6.5	7.8
Internal Link Dist (m)	81.4	75.3	192.2	158.4
Turn Bay Length (m)				
Base Capacity (vph)	1942	2018	475	471
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.59	0.67	0.04	0.06

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	17	1075	14	2	1276	25	7	2	8	8	1	17
Future Volume (vph)	17	1075	14	2	1276	25	7	2	8	8	1	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5			5.5			6.0			6.0	
Lane Util. Factor		0.95			0.95			1.00			1.00	
Frpb, ped/bikes		1.00			1.00			0.99			0.97	
Flpb, ped/bikes		1.00			1.00			0.98			1.00	
Frt		1.00			1.00			0.94			0.91	
Flt Protected		1.00			1.00			0.98			0.99	
Satd. Flow (prot)		3561			3554			1706			1646	
Flt Permitted		0.92			0.95			0.93			0.95	
Satd. Flow (perm)		3264			3391			1621			1583	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	18	1120	15	2	1329	26	7	2	8	8	1	18
RTOR Reduction (vph)	0	1	0	0	1	0	0	6	0	0	13	0
Lane Group Flow (vph)	0	1152	0	0	1356	0	0	11	0	0	14	0
Confl. Peds. (#/hr)	58		31	31		58	38		1	1		38
Heavy Vehicles (%)	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)		59.5			59.5			29.0			29.0	
Effective Green, g (s)		59.5			59.5			29.0			29.0	
Actuated g/C Ratio		0.60			0.60			0.29			0.29	
Clearance Time (s)		5.5			5.5			6.0			6.0	
Vehicle Extension (s)		3.0			3.0			3.0			3.0	
Lane Grp Cap (vph)		1942			2017			470			459	
v/s Ratio Prot												
v/s Ratio Perm		0.35			c0.40			0.01			c0.01	
v/c Ratio		0.59			0.67			0.02			0.03	
Uniform Delay, d1		12.7			13.7			25.4			25.4	
Progression Factor		1.00			1.00			1.00			1.00	
Incremental Delay, d2		1.3			1.8			0.0			0.0	
Delay (s)		14.0			15.5			25.4			25.5	
Level of Service		B			B			C			C	
Approach Delay (s)		14.0			15.5			25.4			25.5	
Approach LOS		B			B			C			C	

Intersection Summary			
HCM 2000 Control Delay	15.0	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.46		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	11.5
Intersection Capacity Utilization	76.0%	ICU Level of Service	D
Analysis Period (min)	15		

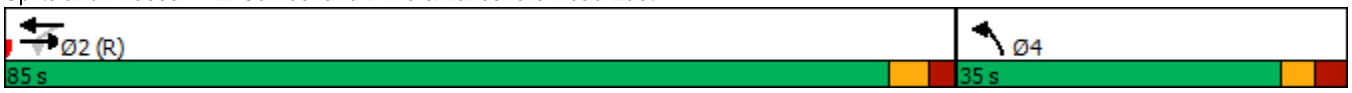
c Critical Lane Group

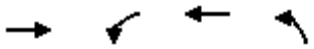
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1033	37	34	1307	42	26
Future Volume (vph)	1033	37	34	1307	42	26
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)		0.0	10.0		0.0	0.0
Storage Lanes		0	1		1	0
Taper Length (m)			37.0		7.5	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00		0.99		0.98	
Frt	0.995				0.949	
Flt Protected			0.950		0.970	
Satd. Flow (prot)	3550	0	1805	3574	1732	0
Flt Permitted			0.245		0.970	
Satd. Flow (perm)	3550	0	463	3574	1721	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	6				24	
Link Speed (k/h)	50			50	50	
Link Distance (m)	147.4			234.8	216.1	
Travel Time (s)	10.6			16.9	15.6	
Confl. Peds. (#/hr)		15	15		8	11
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	1%	0%	0%	1%	0%	0%
Adj. Flow (vph)	1076	39	35	1361	44	27
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1115	0	35	1361	71	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Number of Detectors	2		1	2	1	
Detector Template	Thru		Left	Thru	Left	
Leading Detector (m)	10.0		2.0	10.0	2.0	
Trailing Detector (m)	0.0		0.0	0.0	0.0	
Detector 1 Position(m)	0.0		0.0	0.0	0.0	
Detector 1 Size(m)	0.6		2.0	0.6	2.0	
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	
Detector 2 Position(m)	9.4			9.4		
Detector 2 Size(m)	0.6			0.6		
Detector 2 Type	Cl+Ex			Cl+Ex		
Detector 2 Channel						
Detector 2 Extend (s)	0.0			0.0		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Detector Phase	2		2	2	4	
Switch Phase						
Minimum Initial (s)	10.0		10.0	10.0	10.0	
Minimum Split (s)	26.0		26.0	26.0	35.0	
Total Split (s)	85.0		85.0	85.0	35.0	
Total Split (%)	70.8%		70.8%	70.8%	29.2%	
Maximum Green (s)	79.0		79.0	79.0	29.0	
Yellow Time (s)	3.5		3.5	3.5	3.0	
All-Red Time (s)	2.5		2.5	2.5	3.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.0		6.0	6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	10.0		10.0	10.0	10.0	
Flash Dont Walk (s)	10.0		10.0	10.0	19.0	
Pedestrian Calls (#/hr)	0		0	0	0	
Act Effct Green (s)	101.8		101.8	101.8	10.6	
Actuated g/C Ratio	0.85		0.85	0.85	0.09	
v/c Ratio	0.37		0.09	0.45	0.41	
Control Delay	3.1		1.7	1.6	42.7	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	3.1		1.7	1.6	42.7	
LOS	A		A	A	D	
Approach Delay	3.1			1.6	42.7	
Approach LOS	A			A	D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 120			
Offset: 77 (64%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.45			
Intersection Signal Delay: 3.4		Intersection LOS: A	
Intersection Capacity Utilization 59.3%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Cumberland Drive & Lakeshore Road East





Lane Group	EBT	WBL	WBT	NBL
Lane Group Flow (vph)	1115	35	1361	71
v/c Ratio	0.37	0.09	0.45	0.41
Control Delay	3.1	1.7	1.6	42.7
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	3.1	1.7	1.6	42.7
Queue Length 50th (m)	30.3	0.7	15.0	11.2
Queue Length 95th (m)	43.5	m1.6	17.0	25.9
Internal Link Dist (m)	123.4		210.8	192.1
Turn Bay Length (m)		10.0		
Base Capacity (vph)	3012	392	3031	436
Starvation Cap Reductn	0	0	92	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.37	0.09	0.46	0.16

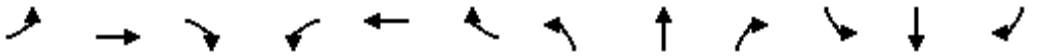
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1033	37	34	1307	42	26
Future Volume (vph)	1033	37	34	1307	42	26
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	6.0	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	0.99	
Flpb, ped/bikes	1.00		0.99	1.00	1.00	
Frt	0.99		1.00	1.00	0.95	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3549		1789	3574	1731	
Flt Permitted	1.00		0.25	1.00	0.97	
Satd. Flow (perm)	3549		462	3574	1731	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	1076	39	35	1361	44	27
RTOR Reduction (vph)	1	0	0	0	22	0
Lane Group Flow (vph)	1114	0	35	1361	49	0
Confl. Peds. (#/hr)		15	15		8	11
Heavy Vehicles (%)	1%	0%	0%	1%	0%	0%
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Actuated Green, G (s)	99.4		99.4	99.4	8.6	
Effective Green, g (s)	99.4		99.4	99.4	8.6	
Actuated g/C Ratio	0.83		0.83	0.83	0.07	
Clearance Time (s)	6.0		6.0	6.0	6.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	2939		382	2960	124	
v/s Ratio Prot	0.31			c0.38	c0.03	
v/s Ratio Perm			0.08			
v/c Ratio	0.38		0.09	0.46	0.39	
Uniform Delay, d1	2.6		1.9	2.9	53.2	
Progression Factor	1.00		0.49	0.37	1.00	
Incremental Delay, d2	0.4		0.4	0.5	2.1	
Delay (s)	3.0		1.4	1.5	55.3	
Level of Service	A		A	A	E	
Approach Delay (s)	3.0			1.5	55.3	
Approach LOS	A			A	E	

Intersection Summary			
HCM 2000 Control Delay	3.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.45		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	12.0
Intersection Capacity Utilization	59.3%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

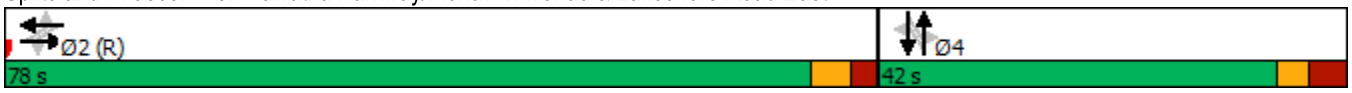


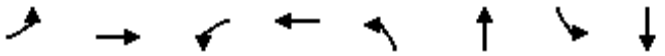
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	1007	12	30	1186	15	41	3	26	104	6	12
Future Volume (vph)	25	1007	12	30	1186	15	41	3	26	104	6	12
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	16.0		0.0	15.0		0.0	30.0		0.0	0.0		0.0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (m)	35.0			31.0			30.0			15.0		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		0.99	1.00		0.99	0.98		0.98	0.99	
Frt		0.998			0.998			0.865			0.897	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	3565	0	1736	3530	0	1805	1552	0	1805	1680	0
Flt Permitted	0.196			0.247			0.745			0.738		
Satd. Flow (perm)	370	3565	0	449	3530	0	1403	1552	0	1381	1680	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2			2			27			13	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		234.8			228.8			216.1			35.6	
Travel Time (s)		16.9			16.5			15.6			2.6	
Confl. Peds. (#/hr)	23		15	15		23	8		14	14		8
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	0%	1%	0%	4%	2%	0%	0%	33%	0%	0%	0%	0%
Adj. Flow (vph)	26	1060	13	32	1248	16	43	3	27	109	6	13
Shared Lane Traffic (%)												
Lane Group Flow (vph)	26	1073	0	32	1264	0	43	30	0	109	19	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.6			3.6			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	31.0	31.0		31.0	31.0		38.5	38.5		38.5	38.5	
Total Split (s)	78.0	78.0		78.0	78.0		42.0	42.0		42.0	42.0	
Total Split (%)	65.0%	65.0%		65.0%	65.0%		35.0%	35.0%		35.0%	35.0%	
Maximum Green (s)	72.0	72.0		72.0	72.0		35.5	35.5		35.5	35.5	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.5	2.5		2.5	2.5		3.5	3.5		3.5	3.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	15.0	15.0		15.0	15.0		22.0	22.0		22.0	22.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	92.4	92.4		92.4	92.4		15.1	15.1		15.1	15.1	
Actuated g/C Ratio	0.77	0.77		0.77	0.77		0.13	0.13		0.13	0.13	
v/c Ratio	0.09	0.39		0.09	0.47		0.24	0.14		0.63	0.09	
Control Delay	4.9	4.7		5.0	6.0		48.8	18.4		64.8	25.6	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	4.9	4.7		5.0	6.0		48.8	18.4		64.8	25.6	
LOS	A	A		A	A		D	B		E	C	
Approach Delay		4.7			6.0			36.3			59.0	
Approach LOS		A			A			D			E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 120			
Offset: 72 (60%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 70			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.63			
Intersection Signal Delay: 8.9		Intersection LOS: A	
Intersection Capacity Utilization 59.5%		ICU Level of Service B	
Analysis Period (min) 15			

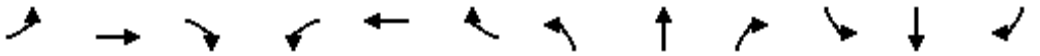
Splits and Phases: 3: Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East





Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	26	1073	32	1264	43	30	109	19
v/c Ratio	0.09	0.39	0.09	0.47	0.24	0.14	0.63	0.09
Control Delay	4.9	4.7	5.0	6.0	48.8	18.4	64.8	25.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	4.9	4.7	5.0	6.0	48.8	18.4	64.8	25.6
Queue Length 50th (m)	1.3	35.6	1.6	49.1	9.8	0.7	26.1	1.3
Queue Length 95th (m)	4.1	42.2	5.6	77.5	20.3	9.4	43.5	8.2
Internal Link Dist (m)		210.8		204.8		192.1		11.6
Turn Bay Length (m)	16.0		15.0		30.0			
Base Capacity (vph)	284	2744	345	2717	415	478	408	506
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.09	0.39	0.09	0.47	0.10	0.06	0.27	0.04

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	1007	12	30	1186	15	41	3	26	104	6	12
Future Volume (vph)	25	1007	12	30	1186	15	41	3	26	104	6	12
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00		1.00	0.98		1.00	0.99	
Flpb, ped/bikes	0.99	1.00		0.99	1.00		0.99	1.00		0.98	1.00	
Frt	1.00	1.00		1.00	1.00		1.00	0.86		1.00	0.90	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1791	3566		1723	3530		1789	1552		1778	1681	
Flt Permitted	0.20	1.00		0.25	1.00		0.75	1.00		0.74	1.00	
Satd. Flow (perm)	369	3566		449	3530		1403	1552		1380	1681	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	26	1060	13	32	1248	16	43	3	27	109	6	13
RTOR Reduction (vph)	0	0	0	0	0	0	0	24	0	0	11	0
Lane Group Flow (vph)	26	1073	0	32	1264	0	43	6	0	109	8	0
Confl. Peds. (#/hr)	23		15	15		23	8		14	14		8
Heavy Vehicles (%)	0%	1%	0%	4%	2%	0%	0%	33%	0%	0%	0%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)	92.4	92.4		92.4	92.4		15.1	15.1		15.1	15.1	
Effective Green, g (s)	92.4	92.4		92.4	92.4		15.1	15.1		15.1	15.1	
Actuated g/C Ratio	0.77	0.77		0.77	0.77		0.13	0.13		0.13	0.13	
Clearance Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	284	2745		345	2718		176	195		173	211	
v/s Ratio Prot		0.30			c0.36			0.00			0.00	
v/s Ratio Perm	0.07			0.07			0.03			c0.08		
v/c Ratio	0.09	0.39		0.09	0.46		0.24	0.03		0.63	0.04	
Uniform Delay, d1	3.4	4.5		3.4	4.9		47.3	46.0		49.8	46.1	
Progression Factor	0.94	0.87		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.6	0.4		0.5	0.6		0.7	0.1		7.3	0.1	
Delay (s)	3.8	4.4		4.0	5.5		48.0	46.1		57.1	46.1	
Level of Service	A	A		A	A		D	D		E	D	
Approach Delay (s)		4.3			5.5			47.2			55.4	
Approach LOS		A			A			D			E	

Intersection Summary			
HCM 2000 Control Delay	8.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.49		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	12.5
Intersection Capacity Utilization	59.5%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1099	23	86	1293	5	80
Future Volume (vph)	1099	23	86	1293	5	80
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.997				0.872	
Flt Protected				0.997	0.997	
Satd. Flow (prot)	3564	0	0	3531	1652	0
Flt Permitted				0.997	0.997	
Satd. Flow (perm)	3564	0	0	3531	1652	0
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		35	35		9	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	1%	0%	1%	2%	0%	0%
Adj. Flow (vph)	1169	24	91	1376	5	85
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1193	0	0	1467	90	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 85.0%		ICU Level of Service E	
Analysis Period (min) 15			

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1099	23	86	1293	5	80
Future Volume (Veh/h)	1099	23	86	1293	5	80
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	1169	24	91	1376	5	85
Pedestrians	9			1	35	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	1			0	3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.90		0.90	0.90
vC, conflicting volume			1228		2095	632
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1034		1996	373
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			85		87	85
cM capacity (veh/h)			590		39	551

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	779	414	550	917	90
Volume Left	0	0	91	0	5
Volume Right	0	24	0	0	85
cSH	1700	1700	590	1700	320
Volume to Capacity	0.46	0.24	0.15	0.54	0.28
Queue Length 95th (m)	0.0	0.0	4.3	0.0	9.0
Control Delay (s)	0.0	0.0	4.2	0.0	20.6
Lane LOS			A		C
Approach Delay (s)	0.0		1.6		20.6
Approach LOS					C

Intersection Summary			
Average Delay	1.5		
Intersection Capacity Utilization	85.0%	ICU Level of Service	E
Analysis Period (min)	15		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1099	23	86	1293	5	80
Future Volume (vph)	1099	23	86	1293	5	80
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.997					0.850
Flt Protected				0.997	0.950	
Satd. Flow (prot)	3564	0	0	3531	1805	1615
Flt Permitted				0.997	0.950	
Satd. Flow (perm)	3564	0	0	3531	1805	1615
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		35	35		9	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	1%	0%	1%	2%	0%	0%
Adj. Flow (vph)	1169	24	91	1376	5	85
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1193	0	0	1467	5	85
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	83.1%	ICU Level of Service	E
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1099	23	86	1293	5	80
Future Volume (Veh/h)	1099	23	86	1293	5	80
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	1169	24	91	1376	5	85
Pedestrians	9			1	35	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	1			0	3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.90		0.90	0.90
vC, conflicting volume			1228		2095	632
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1034		1996	373
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			85		87	85
cM capacity (veh/h)			590		39	551

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2
Volume Total	779	414	550	917	5	85
Volume Left	0	0	91	0	5	0
Volume Right	0	24	0	0	0	85
cSH	1700	1700	590	1700	39	551
Volume to Capacity	0.46	0.24	0.15	0.54	0.13	0.15
Queue Length 95th (m)	0.0	0.0	4.3	0.0	3.2	4.3
Control Delay (s)	0.0	0.0	4.2	0.0	109.1	12.7
Lane LOS			A		F	B
Approach Delay (s)	0.0		1.6		18.1	
Approach LOS					C	

Intersection Summary			
Average Delay	1.4		
Intersection Capacity Utilization	83.1%	ICU Level of Service	E
Analysis Period (min)	15		

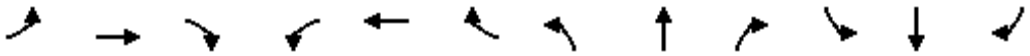
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	2	18	2	0	17	5
Future Volume (vph)	2	18	2	0	17	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt	0.880					
Flt Protected	0.994					0.963
Satd. Flow (prot)	1662	0	1900	0	0	1830
Flt Permitted	0.994					0.963
Satd. Flow (perm)	1662	0	1900	0	0	1830
Link Speed (k/h)	50		50			50
Link Distance (m)	246.0		102.9			216.2
Travel Time (s)	17.7		7.4			15.6
Confl. Peds. (#/hr)	6	29				
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	4	32	4	0	30	9
Shared Lane Traffic (%)						
Lane Group Flow (vph)	36	0	4	0	0	39
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	3.6		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	24.2%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	2	18	2	0	17	5
Future Volume (Veh/h)	2	18	2	0	17	5
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Hourly flow rate (vph)	4	32	4	0	30	9
Pedestrians			6			29
Lane Width (m)			3.6			3.6
Walking Speed (m/s)			1.2			1.2
Percent Blockage			1			2
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (m)						216
pX, platoon unblocked						
vC, conflicting volume	79	33			4	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	79	33			4	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	97			98	
cM capacity (veh/h)	907	1021			1631	

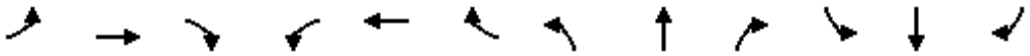
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	36	4	39
Volume Left	4	0	30
Volume Right	32	0	0
cSH	1007	1700	1631
Volume to Capacity	0.04	0.00	0.02
Queue Length 95th (m)	0.9	0.0	0.4
Control Delay (s)	8.7	0.0	5.6
Lane LOS	A		A
Approach Delay (s)	8.7	0.0	5.6
Approach LOS	A		

Intersection Summary			
Average Delay	6.7		
Intersection Capacity Utilization	24.2%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	12	10	5	1	5	9	3	8	2	9	17	10
Future Volume (vph)	12	10	5	1	5	9	3	8	2	9	17	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.974			0.919			0.977			0.963	
Flt Protected		0.978			0.998			0.989			0.988	
Satd. Flow (prot)	0	1740	0	0	1743	0	0	1691	0	0	1651	0
Flt Permitted		0.978			0.998			0.989			0.988	
Satd. Flow (perm)	0	1740	0	0	1743	0	0	1691	0	0	1651	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		246.0			233.0			138.8			216.1	
Travel Time (s)		17.7			16.8			10.0			15.6	
Confl. Peds. (#/hr)	22		1	1		22	22		1	1		22
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles (%)	9%	0%	0%	0%	0%	0%	0%	14%	0%	13%	13%	0%
Adj. Flow (vph)	16	13	7	1	7	12	4	11	3	12	23	13
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	36	0	0	20	0	0	18	0	0	48	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

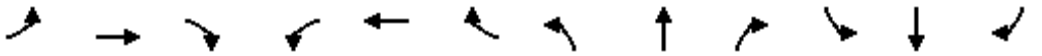
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 23.7%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	12	10	5	1	5	9	3	8	2	9	17	10
Future Volume (vph)	12	10	5	1	5	9	3	8	2	9	17	10
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Hourly flow rate (vph)	16	13	7	1	7	12	4	11	3	12	23	13

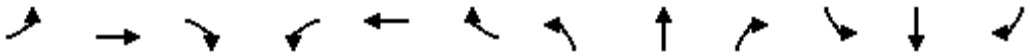
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	36	20	18	48
Volume Left (vph)	16	1	4	12
Volume Right (vph)	7	12	3	13
Hadj (s)	0.04	-0.35	0.09	0.05
Departure Headway (s)	4.1	3.7	4.2	4.1
Degree Utilization, x	0.04	0.02	0.02	0.05
Capacity (veh/h)	858	942	842	865
Control Delay (s)	7.3	6.8	7.2	7.3
Approach Delay (s)	7.3	6.8	7.2	7.3
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.2			
Level of Service	A			
Intersection Capacity Utilization	23.7%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	16	3	1	12	26	1	17	0	8	16	5
Future Volume (vph)	2	16	3	1	12	26	1	17	0	8	16	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.981			0.910						0.976	
Flt Protected		0.995			0.999			0.998			0.986	
Satd. Flow (prot)	0	1763	0	0	1727	0	0	1896	0	0	1635	0
Flt Permitted		0.995			0.999			0.998			0.986	
Satd. Flow (perm)	0	1763	0	0	1727	0	0	1896	0	0	1635	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		233.0			228.0			131.6			216.1	
Travel Time (s)		16.8			16.4			9.5			15.6	
Confl. Peds. (#/hr)	6		1	1		6	9		3	3		9
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Heavy Vehicles (%)	50%	0%	0%	0%	0%	0%	0%	0%	0%	29%	7%	0%
Adj. Flow (vph)	3	22	4	1	17	36	1	24	0	11	22	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	29	0	0	54	0	0	25	0	0	40	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

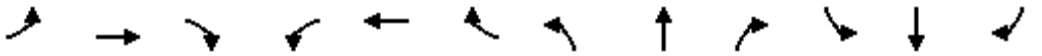
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 18.6%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	2	16	3	1	12	26	1	17	0	8	16	5
Future Volume (vph)	2	16	3	1	12	26	1	17	0	8	16	5
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Hourly flow rate (vph)	3	22	4	1	17	36	1	24	0	11	22	7

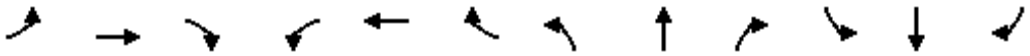
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	29	54	25	40
Volume Left (vph)	3	1	1	11
Volume Right (vph)	4	36	0	7
Hadj (s)	0.03	-0.40	0.01	0.15
Departure Headway (s)	4.1	3.7	4.1	4.2
Degree Utilization, x	0.03	0.06	0.03	0.05
Capacity (veh/h)	853	956	845	827
Control Delay (s)	7.3	6.9	7.2	7.5
Approach Delay (s)	7.3	6.9	7.2	7.5
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.2			
Level of Service	A			
Intersection Capacity Utilization	18.6%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	12	15	1	1	30	36	1	30	2	36	42	10
Future Volume (vph)	12	15	1	1	30	36	1	30	2	36	42	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.997			0.928			0.991			0.985	
Flt Protected		0.979			0.999			0.999			0.980	
Satd. Flow (prot)	0	1720	0	0	1761	0	0	1815	0	0	1834	0
Flt Permitted		0.979			0.999			0.999			0.980	
Satd. Flow (perm)	0	1720	0	0	1761	0	0	1815	0	0	1834	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		228.0			132.1			169.2			216.1	
Travel Time (s)		16.4			9.5			12.2			15.6	
Confl. Peds. (#/hr)	5		2	2		5			11	11		
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Heavy Vehicles (%)	18%	0%	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%
Adj. Flow (vph)	17	21	1	1	43	51	1	43	3	51	60	14
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	39	0	0	95	0	0	47	0	0	125	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

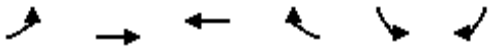
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 26.7%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	12	15	1	1	30	36	1	30	2	36	42	10
Future Volume (vph)	12	15	1	1	30	36	1	30	2	36	42	10
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Hourly flow rate (vph)	17	21	1	1	43	51	1	43	3	51	60	14

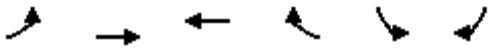
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	39	95	47	125
Volume Left (vph)	17	1	1	51
Volume Right (vph)	1	51	3	14
Hadj (s)	0.21	-0.32	0.03	0.01
Departure Headway (s)	4.6	4.0	4.4	4.3
Degree Utilization, x	0.05	0.11	0.06	0.15
Capacity (veh/h)	748	857	788	818
Control Delay (s)	7.8	7.5	7.6	8.0
Approach Delay (s)	7.8	7.5	7.6	8.0
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.8			
Level of Service	A			
Intersection Capacity Utilization	26.7%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	28	1091	1221	23	6	39
Future Volume (vph)	28	1091	1221	23	6	39
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.997		0.882	
Flt Protected		0.999			0.994	
Satd. Flow (prot)	0	3534	3564	0	1666	0
Flt Permitted		0.999			0.994	
Satd. Flow (perm)	0	3534	3564	0	1666	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		168.4	105.4		179.3	
Travel Time (s)		12.1	7.6		12.9	
Confl. Peds. (#/hr)	34			34	4	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	4%	2%	1%	0%	0%	0%
Adj. Flow (vph)	29	1148	1285	24	6	41
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1177	1309	0	47	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	100			100	100	100
Sign Control		Free	Free		Stop	

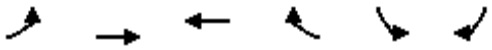
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 60.6%		ICU Level of Service B	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	28	1091	1221	23	6	39
Future Volume (Veh/h)	28	1091	1221	23	6	39
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	29	1148	1285	24	6	41
Pedestrians		1	4		34	
Lane Width (m)		3.6	3.6		3.6	
Walking Speed (m/s)		1.2	1.2		1.2	
Percent Blockage		0	0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)			105			
pX, platoon unblocked	0.75				0.75	0.75
vC, conflicting volume	1343				1967	690
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	778				1615	0
tC, single (s)	4.2				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	95				91	95
cM capacity (veh/h)	595				66	790

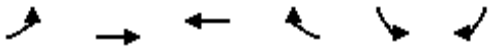
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	412	765	857	452	47
Volume Left	29	0	0	0	6
Volume Right	0	0	0	24	41
cSH	595	1700	1700	1700	330
Volume to Capacity	0.05	0.45	0.50	0.27	0.14
Queue Length 95th (m)	1.2	0.0	0.0	0.0	3.9
Control Delay (s)	1.5	0.0	0.0	0.0	17.7
Lane LOS	A				C
Approach Delay (s)	0.5		0.0		17.7
Approach LOS					C

Intersection Summary			
Average Delay	0.6		
Intersection Capacity Utilization	60.6%	ICU Level of Service	B
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	26	1020	1159	36	8	37
Future Volume (vph)	26	1020	1159	36	8	37
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.995		0.890	
Flt Protected		0.999			0.991	
Satd. Flow (prot)	0	3537	3592	0	1636	0
Flt Permitted		0.999			0.991	
Satd. Flow (perm)	0	3537	3592	0	1636	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		99.3	147.4		181.8	
Travel Time (s)		7.1	10.6		13.1	
Confl. Peds. (#/hr)	25			25	2	4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	2%	0%	0%	0%	3%
Adj. Flow (vph)	28	1109	1260	39	9	40
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1137	1299	0	49	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	100			100	100	100
Sign Control		Free	Free		Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 58.1%		ICU Level of Service B	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	26	1020	1159	36	8	37
Future Volume (Veh/h)	26	1020	1159	36	8	37
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	28	1109	1260	39	9	40
Pedestrians		4	2		25	
Lane Width (m)		3.6	3.6		3.6	
Walking Speed (m/s)		1.2	1.2		1.2	
Percent Blockage		0	0		2	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)		99	148			
pX, platoon unblocked	0.89				0.86	0.89
vC, conflicting volume	1324				1917	678
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1123				1174	400
tC, single (s)	4.1				6.8	7.0
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	95				94	92
cM capacity (veh/h)	550				149	520

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	398	739	840	459	49
Volume Left	28	0	0	0	9
Volume Right	0	0	0	39	40
cSH	550	1700	1700	1700	357
Volume to Capacity	0.05	0.43	0.49	0.27	0.14
Queue Length 95th (m)	1.3	0.0	0.0	0.0	3.8
Control Delay (s)	1.6	0.0	0.0	0.0	16.7
Lane LOS	A				C
Approach Delay (s)	0.5		0.0		16.7
Approach LOS					C

Intersection Summary			
Average Delay	0.6		
Intersection Capacity Utilization	58.1%	ICU Level of Service	B
Analysis Period (min)	15		

Intersection: 6: Cumberland Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	16.4	9.3	15.9	15.7
Average Queue (m)	5.6	3.5	3.3	6.1
95th Queue (m)	13.4	10.6	11.1	14.2
Link Distance (m)	229.0	214.4	130.3	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 7: Hiawatha Parkway & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	10.4	9.3	9.2	15.7
Average Queue (m)	4.4	6.8	4.1	5.1
95th Queue (m)	11.9	13.0	11.6	13.6
Link Distance (m)	214.4	209.3	123.2	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: Wenonah Drive & Wanita Road

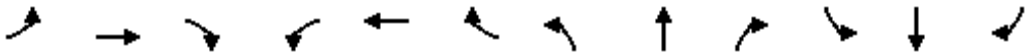
Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	12.2	15.9	15.5	13.4
Average Queue (m)	5.3	8.1	6.6	8.8
95th Queue (m)	12.9	14.3	13.8	12.5
Link Distance (m)	209.3	123.7	160.8	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

Appendix E

Future Traffic Operations Reports (During Construction)

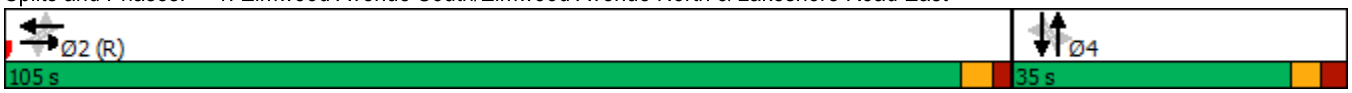


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1123	1	6	1011	0	6	0	5	0	0	0
Future Volume (vph)	0	1123	1	6	1011	0	6	0	5	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.95				
Frt								0.939				
Flt Protected								0.973				
Satd. Flow (prot)	0	3504	0	0	3505	0	0	1725	0	0	1900	0
Flt Permitted					0.948			0.915				
Satd. Flow (perm)	0	3504	0	0	3323	0	0	1555	0	0	1900	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)								19				
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		105.4			99.3			216.2			182.4	
Travel Time (s)		7.6			7.1			15.6			13.1	
Confl. Peds. (#/hr)	31		42	42		31	53		1	1		53
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	0%	3%	0%	0%	3%	0%	0%	0%	0%	24%	0%	13%
Adj. Flow (vph)	0	1146	1	6	1032	0	6	0	5	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1147	0	0	1038	0	0	11	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type		NA		Perm	NA		Perm	NA				
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	27.5	27.5		27.5	27.5		35.0	35.0		35.0	35.0	
Total Split (s)	105.0	105.0		105.0	105.0		35.0	35.0		35.0	35.0	
Total Split (%)	75.0%	75.0%		75.0%	75.0%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)	99.5	99.5		99.5	99.5		29.0	29.0		29.0	29.0	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		3.0	3.0		3.0	3.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		5.5			5.5			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		Ped	Ped		Ped	Ped	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	12.0	12.0		12.0	12.0		19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		99.5			99.5			29.0				
Actuated g/C Ratio		0.71			0.71			0.21				
v/c Ratio		0.46			0.44			0.03				
Control Delay		9.4			7.7			10.3				
Queue Delay		0.0			0.0			0.0				
Total Delay		9.4			7.7			10.3				
LOS		A			A			B				
Approach Delay		9.4			7.7			10.3				
Approach LOS		A			A			B				

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 3 (2%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.46			
Intersection Signal Delay: 8.6		Intersection LOS: A	
Intersection Capacity Utilization 65.9%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 1: Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East



Lane Group	EBT	WBT	NBT
Lane Group Flow (vph)	1147	1038	11
v/c Ratio	0.46	0.44	0.03
Control Delay	9.4	7.7	10.3
Queue Delay	0.0	0.0	0.0
Total Delay	9.4	7.7	10.3
Queue Length 50th (m)	68.8	43.8	0.0
Queue Length 95th (m)	82.2	50.3	3.8
Internal Link Dist (m)	81.4	75.3	192.2
Turn Bay Length (m)			
Base Capacity (vph)	2490	2361	337
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.46	0.44	0.03

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1123	1	6	1011	0	6	0	5	0	0	0
Future Volume (vph)	0	1123	1	6	1011	0	6	0	5	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5			5.5			6.0				
Lane Util. Factor		0.95			0.95			1.00				
Frpb, ped/bikes		1.00			1.00			0.99				
Flpb, ped/bikes		1.00			1.00			0.96				
Frt		1.00			1.00			0.94				
Flt Protected		1.00			1.00			0.97				
Satd. Flow (prot)		3504			3504			1653				
Flt Permitted		1.00			0.95			0.92				
Satd. Flow (perm)		3504			3322			1554				
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	0	1146	1	6	1032	0	6	0	5	0	0	0
RTOR Reduction (vph)	0	0	0	0	0	0	0	9	0	0	0	0
Lane Group Flow (vph)	0	1147	0	0	1038	0	0	2	0	0	0	0
Confl. Peds. (#/hr)	31		42	42		31	53		1	1		53
Heavy Vehicles (%)	0%	3%	0%	0%	3%	0%	0%	0%	0%	24%	0%	13%
Turn Type		NA		Perm	NA		Perm	NA				
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)		99.5			99.5			29.0				
Effective Green, g (s)		99.5			99.5			29.0				
Actuated g/C Ratio		0.71			0.71			0.21				
Clearance Time (s)		5.5			5.5			6.0				
Vehicle Extension (s)		3.0			3.0			3.0				
Lane Grp Cap (vph)		2490			2360			321				
v/s Ratio Prot		c0.33										
v/s Ratio Perm					0.31			c0.00				
v/c Ratio		0.46			0.44			0.01				
Uniform Delay, d1		8.7			8.5			44.1				
Progression Factor		1.00			0.82			1.00				
Incremental Delay, d2		0.6			0.6			0.0				
Delay (s)		9.3			7.6			44.1				
Level of Service		A			A			D				
Approach Delay (s)		9.3			7.6			44.1			0.0	
Approach LOS		A			A			D			A	

Intersection Summary			
HCM 2000 Control Delay	8.7	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.36		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	11.5
Intersection Capacity Utilization	65.9%	ICU Level of Service	C
Analysis Period (min)	15		

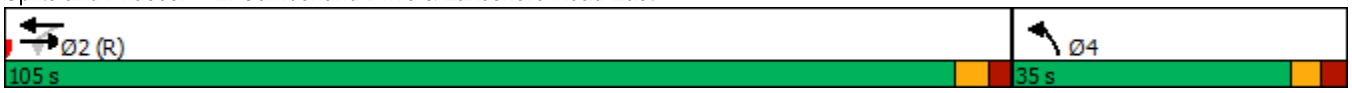
c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1077	50	28	1002	44	30
Future Volume (vph)	1077	50	28	1002	44	30
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)		0.0	10.0		0.0	0.0
Storage Lanes		0	1		1	0
Taper Length (m)			37.0		7.5	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00		0.99		0.98	
Frt	0.993				0.945	
Flt Protected			0.950		0.971	
Satd. Flow (prot)	3459	0	1703	3471	1717	0
Flt Permitted			0.237		0.971	
Satd. Flow (perm)	3459	0	422	3471	1706	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	8				22	
Link Speed (k/h)	50			50	50	
Link Distance (m)	147.4			234.8	216.1	
Travel Time (s)	10.6			16.9	15.6	
Confl. Peds. (#/hr)		17	17		7	18
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	3%	9%	6%	4%	0%	0%
Adj. Flow (vph)	1099	51	29	1022	45	31
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1150	0	29	1022	76	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Number of Detectors	2		1	2	1	
Detector Template	Thru		Left	Thru	Left	
Leading Detector (m)	10.0		2.0	10.0	2.0	
Trailing Detector (m)	0.0		0.0	0.0	0.0	
Detector 1 Position(m)	0.0		0.0	0.0	0.0	
Detector 1 Size(m)	0.6		2.0	0.6	2.0	
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	
Detector 2 Position(m)	9.4			9.4		
Detector 2 Size(m)	0.6			0.6		
Detector 2 Type	Cl+Ex			Cl+Ex		
Detector 2 Channel						
Detector 2 Extend (s)	0.0			0.0		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Detector Phase	2		2	2	4	
Switch Phase						
Minimum Initial (s)	10.0		10.0	10.0	10.0	
Minimum Split (s)	26.0		26.0	26.0	35.0	
Total Split (s)	105.0		105.0	105.0	35.0	
Total Split (%)	75.0%		75.0%	75.0%	25.0%	
Maximum Green (s)	99.0		99.0	99.0	29.0	
Yellow Time (s)	3.5		3.5	3.5	3.0	
All-Red Time (s)	2.5		2.5	2.5	3.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.0		6.0	6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	10.0		10.0	10.0	10.0	
Flash Dont Walk (s)	10.0		10.0	10.0	19.0	
Pedestrian Calls (#/hr)	0		0	0	0	
Act Effct Green (s)	121.2		121.2	121.2	11.2	
Actuated g/C Ratio	0.87		0.87	0.87	0.08	
v/c Ratio	0.38		0.08	0.34	0.48	
Control Delay	1.1		2.8	2.7	54.1	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	1.1		2.8	2.7	54.1	
LOS	A		A	A	D	
Approach Delay	1.1			2.7	54.1	
Approach LOS	A			A	D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 17 (12%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.48			
Intersection Signal Delay: 3.6		Intersection LOS: A	
Intersection Capacity Utilization 56.9%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Cumberland Drive & Lakeshore Road East



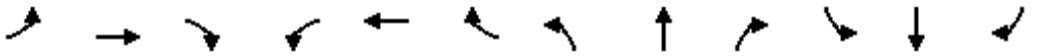
Lane Group	EBT	WBL	WBT	NBL
Lane Group Flow (vph)	1150	29	1022	76
v/c Ratio	0.38	0.08	0.34	0.48
Control Delay	1.1	2.8	2.7	54.1
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	1.1	2.8	2.7	54.1
Queue Length 50th (m)	8.0	1.1	26.7	15.4
Queue Length 95th (m)	9.9	3.5	40.4	31.9
Internal Link Dist (m)	123.4		210.8	192.1
Turn Bay Length (m)		10.0		
Base Capacity (vph)	2994	365	3003	373
Starvation Cap Reductn	214	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.41	0.08	0.34	0.20

Intersection Summary

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1077	50	28	1002	44	30
Future Volume (vph)	1077	50	28	1002	44	30
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	6.0	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	0.98	
Flpb, ped/bikes	1.00		0.99	1.00	1.00	
Frt	0.99		1.00	1.00	0.94	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3461		1685	3471	1717	
Flt Permitted	1.00		0.24	1.00	0.97	
Satd. Flow (perm)	3461		420	3471	1717	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	1099	51	29	1022	45	31
RTOR Reduction (vph)	1	0	0	0	21	0
Lane Group Flow (vph)	1149	0	29	1022	55	0
Confl. Peds. (#/hr)		17	17		7	18
Heavy Vehicles (%)	3%	9%	6%	4%	0%	0%
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Actuated Green, G (s)	118.8		118.8	118.8	9.2	
Effective Green, g (s)	118.8		118.8	118.8	9.2	
Actuated g/C Ratio	0.85		0.85	0.85	0.07	
Clearance Time (s)	6.0		6.0	6.0	6.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	2936		356	2945	112	
v/s Ratio Prot	c0.33			0.29	c0.03	
v/s Ratio Perm			0.07			
v/c Ratio	0.39		0.08	0.35	0.50	
Uniform Delay, d1	2.4		1.7	2.3	63.2	
Progression Factor	0.28		0.99	0.97	1.00	
Incremental Delay, d2	0.4		0.4	0.3	3.4	
Delay (s)	1.0		2.1	2.5	66.6	
Level of Service	A		A	A	E	
Approach Delay (s)	1.0			2.5	66.6	
Approach LOS	A			A	E	

Intersection Summary			
HCM 2000 Control Delay	3.9	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.40		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	12.0
Intersection Capacity Utilization	56.9%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group



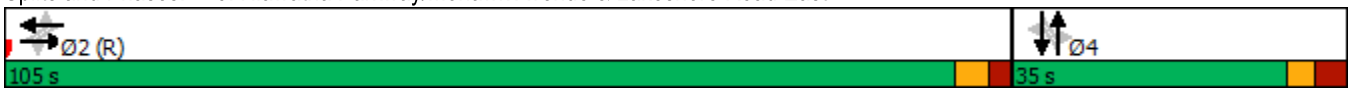
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	16	1006	8	11	933	25	11	5	17	161	3	18
Future Volume (vph)	16	1006	8	11	933	25	11	5	17	161	3	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	16.0		0.0	15.0		0.0	30.0		0.0	0.0		0.0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (m)	35.0			31.0			30.0			15.0		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		1.00	1.00		0.99	0.97		0.97	0.98	
Frt		0.999			0.996			0.886			0.870	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1687	3466	0	1719	3415	0	1770	1553	0	1787	1588	0
Flt Permitted	0.240			0.221			0.742			0.741		
Satd. Flow (perm)	423	3466	0	398	3415	0	1365	1553	0	1359	1588	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1			5			19			20	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		234.8			228.8			216.1			35.6	
Travel Time (s)		16.9			16.5			15.6			2.6	
Confl. Peds. (#/hr)	15		11	11		15	10		20	20		10
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	7%	4%	7%	5%	5%	10%	2%	0%	7%	1%	14%	0%
Adj. Flow (vph)	18	1130	9	12	1048	28	12	6	19	181	3	20
Shared Lane Traffic (%)												
Lane Group Flow (vph)	18	1139	0	12	1076	0	12	25	0	181	23	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.6			3.6			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

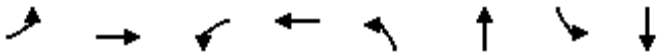
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	31.0	31.0		31.0	31.0		38.5	38.5		38.5	38.5	
Total Split (s)	105.0	105.0		105.0	105.0		35.0	35.0		35.0	35.0	
Total Split (%)	75.0%	75.0%		75.0%	75.0%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)	99.0	99.0		99.0	99.0		28.5	28.5		28.5	28.5	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.5	2.5		2.5	2.5		3.5	3.5		3.5	3.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	15.0	15.0		15.0	15.0		22.0	22.0		22.0	22.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	104.5	104.5		104.5	104.5		23.0	23.0		23.0	23.0	
Actuated g/C Ratio	0.75	0.75		0.75	0.75		0.16	0.16		0.16	0.16	
v/c Ratio	0.06	0.44		0.04	0.42		0.05	0.09		0.81	0.08	
Control Delay	2.1	2.4		6.3	7.6		46.9	22.8		82.5	20.2	
Queue Delay	0.0	0.1		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	2.1	2.5		6.3	7.6		46.9	22.8		82.5	20.2	
LOS	A	A		A	A		D	C		F	C	
Approach Delay		2.5			7.6			30.6			75.5	
Approach LOS		A			A			C			E	

Intersection Summary

Area Type: Other
Cycle Length: 140
Actuated Cycle Length: 140
Offset: 36 (26%), Referenced to phase 2:EBWB and 6:, Start of Green
Natural Cycle: 70
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 0.81
Intersection Signal Delay: 11.1 Intersection LOS: B
Intersection Capacity Utilization 57.2% ICU Level of Service B
Analysis Period (min) 15

Splits and Phases: 3: Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East





Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	18	1139	12	1076	12	25	181	23
v/c Ratio	0.06	0.44	0.04	0.42	0.05	0.09	0.81	0.08
Control Delay	2.1	2.4	6.3	7.6	46.9	22.8	82.5	20.2
Queue Delay	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	2.1	2.5	6.3	7.6	46.9	22.8	82.5	20.2
Queue Length 50th (m)	0.4	15.5	0.8	55.3	3.0	1.5	51.2	0.7
Queue Length 95th (m)	m1.3	19.1	3.1	75.6	8.7	9.9	75.8	8.6
Internal Link Dist (m)		210.8		204.8		192.1		11.6
Turn Bay Length (m)	16.0		15.0		30.0			
Base Capacity (vph)	315	2587	297	2550	277	331	276	339
Starvation Cap Reductn	0	324	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.06	0.50	0.04	0.42	0.04	0.08	0.66	0.07

Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	16	1006	8	11	933	25	11	5	17	161	3	18
Future Volume (vph)	16	1006	8	11	933	25	11	5	17	161	3	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00		1.00	0.97		1.00	0.98	
Flpb, ped/bikes	0.99	1.00		1.00	1.00		0.99	1.00		0.97	1.00	
Frt	1.00	1.00		1.00	1.00		1.00	0.89		1.00	0.87	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1674	3465		1711	3415		1747	1553		1742	1587	
Flt Permitted	0.24	1.00		0.22	1.00		0.74	1.00		0.74	1.00	
Satd. Flow (perm)	422	3465		399	3415		1365	1553		1359	1587	
Peak-hour factor, PHF	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	18	1130	9	12	1048	28	12	6	19	181	3	20
RTOR Reduction (vph)	0	0	0	0	1	0	0	16	0	0	17	0
Lane Group Flow (vph)	18	1139	0	12	1075	0	12	9	0	181	6	0
Confl. Peds. (#/hr)	15		11	11		15	10		20	20		10
Heavy Vehicles (%)	7%	4%	7%	5%	5%	10%	2%	0%	7%	1%	14%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)	104.5	104.5		104.5	104.5		23.0	23.0		23.0	23.0	
Effective Green, g (s)	104.5	104.5		104.5	104.5		23.0	23.0		23.0	23.0	
Actuated g/C Ratio	0.75	0.75		0.75	0.75		0.16	0.16		0.16	0.16	
Clearance Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	314	2586		297	2549		224	255		223	260	
v/s Ratio Prot		c0.33			0.31			0.01			0.00	
v/s Ratio Perm	0.04			0.03			0.01			c0.13		
v/c Ratio	0.06	0.44		0.04	0.42		0.05	0.04		0.81	0.02	
Uniform Delay, d1	4.7	6.7		4.6	6.6		49.3	49.2		56.4	49.1	
Progression Factor	0.29	0.26		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.3	0.5		0.3	0.5		0.1	0.1		19.7	0.0	
Delay (s)	1.7	2.3		4.9	7.1		49.4	49.2		76.1	49.1	
Level of Service	A	A		A	A		D	D		E	D	
Approach Delay (s)		2.3			7.1			49.3			73.0	
Approach LOS		A			A			D			E	

Intersection Summary			
HCM 2000 Control Delay	10.9	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.51		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	12.5
Intersection Capacity Utilization	57.2%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1182	41	89	1004	31	105
Future Volume (vph)	1182	41	89	1004	31	105
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.995				0.896	
Flt Protected				0.996	0.989	
Satd. Flow (prot)	3487	0	0	3455	1621	0
Flt Permitted				0.996	0.989	
Satd. Flow (perm)	3487	0	0	3455	1621	0
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		21	21		1	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	3%	3%	5%	4%	0%	5%
Adj. Flow (vph)	1299	45	98	1103	34	115
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1344	0	0	1201	149	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	84.8%	ICU Level of Service	E
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1182	41	89	1004	31	105
Future Volume (Veh/h)	1182	41	89	1004	31	105
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (vph)	1299	45	98	1103	34	115
Pedestrians	1			11	21	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	0			1	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.87		0.87	0.87
vC, conflicting volume			1365		2091	704
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1129		1960	372
tC, single (s)			4.2		6.8	7.0
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			81		14	78
cM capacity (veh/h)			513		39	525

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	866	478	466	735	149
Volume Left	0	0	98	0	34
Volume Right	0	45	0	0	115
cSH	1700	1700	513	1700	138
Volume to Capacity	0.51	0.28	0.19	0.43	1.08
Queue Length 95th (m)	0.0	0.0	5.6	0.0	65.7
Control Delay (s)	0.0	0.0	5.5	0.0	163.7
Lane LOS			A		F
Approach Delay (s)	0.0		2.1		163.7
Approach LOS					F

Intersection Summary			
Average Delay	10.0		
Intersection Capacity Utilization	84.8%	ICU Level of Service	E
Analysis Period (min)	15		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1182	41	89	1004	31	105
Future Volume (vph)	1182	41	89	1004	31	105
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.995					0.850
Flt Protected				0.996	0.950	
Satd. Flow (prot)	3487	0	0	3455	1805	1538
Flt Permitted				0.996	0.950	
Satd. Flow (perm)	3487	0	0	3455	1805	1538
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		21	21		1	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	3%	3%	5%	4%	0%	5%
Adj. Flow (vph)	1299	45	98	1103	34	115
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1344	0	0	1201	34	115
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	80.8%	ICU Level of Service	D
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1182	41	89	1004	31	105
Future Volume (Veh/h)	1182	41	89	1004	31	105
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (vph)	1299	45	98	1103	34	115
Pedestrians	1			11	21	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	0			1	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.87		0.87	0.87
vC, conflicting volume			1365		2091	704
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1129		1960	372
tC, single (s)			4.2		6.8	7.0
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			81		14	78
cM capacity (veh/h)			513		39	525

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2
Volume Total	866	478	466	735	34	115
Volume Left	0	0	98	0	34	0
Volume Right	0	45	0	0	0	115
cSH	1700	1700	513	1700	39	525
Volume to Capacity	0.51	0.28	0.19	0.43	0.86	0.22
Queue Length 95th (m)	0.0	0.0	5.6	0.0	26.0	6.6
Control Delay (s)	0.0	0.0	5.5	0.0	256.0	13.8
Lane LOS			A		F	B
Approach Delay (s)	0.0		2.1		69.1	
Approach LOS					F	

Intersection Summary			
Average Delay	4.8		
Intersection Capacity Utilization	80.8%	ICU Level of Service	D
Analysis Period (min)	15		

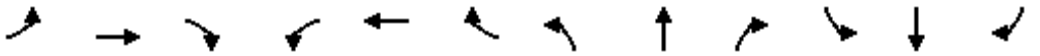
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	10	0	0	9	0	0
Future Volume (vph)	10	0	0	9	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt			0.865			
Flt Protected	0.950					
Satd. Flow (prot)	1805	0	1644	0	0	1900
Flt Permitted	0.950					
Satd. Flow (perm)	1805	0	1644	0	0	1900
Link Speed (k/h)	50		50			50
Link Distance (m)	246.0		102.9			216.2
Travel Time (s)	17.7		7.4			15.6
Confl. Peds. (#/hr)	10	22				
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	20	0	0	18	0	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	20	0	18	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	3.6		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	18.5%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	10	0	0	9	0	0
Future Volume (Veh/h)	10	0	0	9	0	0
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50
Hourly flow rate (vph)	20	0	0	18	0	0
Pedestrians			10			22
Lane Width (m)			3.6			3.6
Walking Speed (m/s)			1.2			1.2
Percent Blockage			1			2
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (m)						216
pX, platoon unblocked						
vC, conflicting volume	19	31			18	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	19	31			18	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	98	100			100	
cM capacity (veh/h)	995	1030			1612	

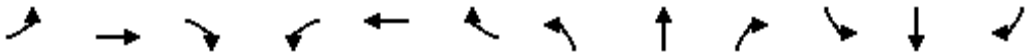
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	20	18	0
Volume Left	20	0	0
Volume Right	0	18	0
cSH	995	1700	1700
Volume to Capacity	0.02	0.01	0.00
Queue Length 95th (m)	0.5	0.0	0.0
Control Delay (s)	8.7	0.0	0.0
Lane LOS	A		
Approach Delay (s)	8.7	0.0	0.0
Approach LOS	A		

Intersection Summary			
Average Delay	4.6		
Intersection Capacity Utilization	18.5%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	20	5	23	1	5	15	10	20	5	29	20	17
Future Volume (vph)	20	5	23	1	5	15	10	20	5	29	20	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.935			0.906			0.980			0.965	
Flt Protected		0.980			0.997			0.986			0.978	
Satd. Flow (prot)	0	1741	0	0	1716	0	0	1836	0	0	1677	0
Flt Permitted		0.980			0.997			0.986			0.978	
Satd. Flow (perm)	0	1741	0	0	1716	0	0	1836	0	0	1677	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		246.0			233.0			138.8			216.1	
Travel Time (s)		17.7			16.8			10.0			15.6	
Confl. Peds. (#/hr)	23		5	5		23	14		3	3		14
Peak Hour Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	23%	0%
Adj. Flow (vph)	30	8	35	2	8	23	15	30	8	44	30	26
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	73	0	0	33	0	0	53	0	0	100	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

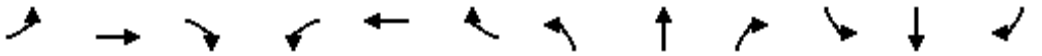
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 25.8%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	20	5	23	1	5	15	10	20	5	29	20	17
Future Volume (vph)	20	5	23	1	5	15	10	20	5	29	20	17
Peak Hour Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Hourly flow rate (vph)	30	8	35	2	8	23	15	30	8	44	30	26

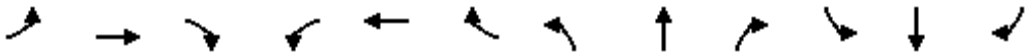
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	73	33	53	100
Volume Left (vph)	30	2	15	44
Volume Right (vph)	35	23	8	26
Hadj (s)	-0.21	-0.41	-0.03	0.05
Departure Headway (s)	4.1	3.9	4.2	4.2
Degree Utilization, x	0.08	0.04	0.06	0.12
Capacity (veh/h)	849	878	825	827
Control Delay (s)	7.4	7.0	7.5	7.8
Approach Delay (s)	7.4	7.0	7.5	7.8
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.5			
Level of Service	A			
Intersection Capacity Utilization	25.8%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Future Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt												
Flt Protected												
Satd. Flow (prot)	0	1900	0	0	1900	0	0	1776	0	0	1900	0
Flt Permitted												
Satd. Flow (perm)	0	1900	0	0	1900	0	0	1776	0	0	1900	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		233.0			228.0			131.6			216.1	
Travel Time (s)		16.8			16.4			9.5			15.6	
Confl. Peds. (#/hr)	5		1	1		5	12		14	14		12
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Heavy Vehicles (%)	0%	0%	0%	100%	0%	7%	0%	7%	0%	0%	0%	0%
Adj. Flow (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

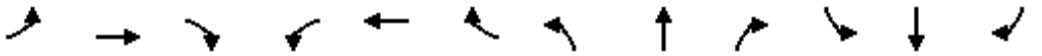
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	18.6%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Future Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Hourly flow rate (vph)	0	0	0	0	0	0	0	0	0	0	0	0

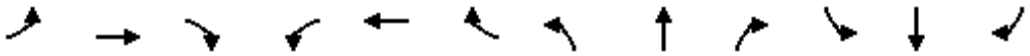
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	0	0	0	0
Volume Left (vph)	0	0	0	0
Volume Right (vph)	0	0	0	0
Hadj (s)	0.00	0.00	0.00	0.00
Departure Headway (s)	3.9	3.9	3.9	3.9
Degree Utilization, x	0.00	0.00	0.00	0.00
Capacity (veh/h)	917	917	917	917
Control Delay (s)	6.9	6.9	6.9	6.9
Approach Delay (s)	0.0	0.0	0.0	0.0
Approach LOS	A	A	A	A

Intersection Summary				
Delay	0.0			
Level of Service	A			
Intersection Capacity Utilization	18.6%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	8	5	1	9	5	84	5	28	20	75	28	9
Future Volume (vph)	8	5	1	9	5	84	5	28	20	75	28	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.988			0.884			0.949			0.989	
Flt Protected		0.973			0.995			0.995			0.968	
Satd. Flow (prot)	0	1664	0	0	1586	0	0	1792	0	0	1711	0
Flt Permitted		0.973			0.995			0.995			0.968	
Satd. Flow (perm)	0	1664	0	0	1586	0	0	1792	0	0	1711	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		228.0			132.1			169.2			216.1	
Travel Time (s)		16.4			9.5			12.2			15.6	
Confl. Peds. (#/hr)	4		3	3		4	1		18	18		1
Peak Hour Factor	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Heavy Vehicles (%)	13%	7%	0%	0%	4%	6%	1%	0%	0%	3%	10%	22%
Adj. Flow (vph)	13	8	2	15	8	140	8	47	33	125	47	15
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	23	0	0	163	0	0	88	0	0	187	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

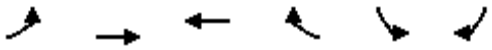
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 26.7%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	8	5	1	9	5	84	5	28	20	75	28	9
Future Volume (vph)	8	5	1	9	5	84	5	28	20	75	28	9
Peak Hour Factor	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Hourly flow rate (vph)	13	8	2	15	8	140	8	47	33	125	47	15

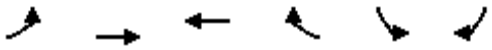
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	23	163	88	187
Volume Left (vph)	13	15	8	125
Volume Right (vph)	2	140	33	15
Hadj (s)	0.23	-0.41	-0.21	0.19
Departure Headway (s)	5.0	4.2	4.3	4.6
Degree Utilization, x	0.03	0.19	0.11	0.24
Capacity (veh/h)	666	805	782	743
Control Delay (s)	8.1	8.1	7.9	9.1
Approach Delay (s)	8.1	8.1	7.9	9.1
Approach LOS	A	A	A	A

Intersection Summary				
Delay	8.5			
Level of Service	A			
Intersection Capacity Utilization	26.7%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	148	953	890	18	6	88
Future Volume (vph)	148	953	890	18	6	88
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.997		0.874	
Flt Protected		0.993			0.997	
Satd. Flow (prot)	0	3485	3496	0	1596	0
Flt Permitted		0.993			0.997	
Satd. Flow (perm)	0	3485	3496	0	1596	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		168.4	105.4		179.3	
Travel Time (s)		12.1	7.6		12.9	
Confl. Peds. (#/hr)	40			40	4	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	2%	3%	3%	0%	0%	4%
Adj. Flow (vph)	164	1059	989	20	7	98
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1223	1009	0	105	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

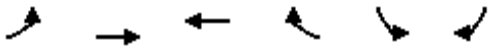
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	71.7%	ICU Level of Service	C
Analysis Period (min)	15		



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	148	953	890	18	6	88
Future Volume (Veh/h)	148	953	890	18	6	88
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	164	1059	989	20	7	98
Pedestrians			4		40	
Lane Width (m)			3.6		3.6	
Walking Speed (m/s)			1.2		1.2	
Percent Blockage			0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)			105			
pX, platoon unblocked	0.88				0.88	0.88
vC, conflicting volume	1049				1900	544
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	780				1749	205
tC, single (s)	4.1				6.8	7.0
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	77				86	85
cM capacity (veh/h)	708				51	675

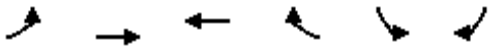
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	517	706	659	350	105
Volume Left	164	0	0	0	7
Volume Right	0	0	0	20	98
cSH	708	1700	1700	1700	372
Volume to Capacity	0.23	0.42	0.39	0.21	0.28
Queue Length 95th (m)	7.1	0.0	0.0	0.0	9.1
Control Delay (s)	6.0	0.0	0.0	0.0	18.4
Lane LOS	A				C
Approach Delay (s)	2.5		0.0		18.4
Approach LOS					C

Intersection Summary			
Average Delay	2.2		
Intersection Capacity Utilization	71.7%	ICU Level of Service	C
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	17	958	832	32	29	28
Future Volume (vph)	17	958	832	32	29	28
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.994		0.934	
Flt Protected		0.999			0.975	
Satd. Flow (prot)	0	3498	3420	0	1730	0
Flt Permitted		0.999			0.975	
Satd. Flow (perm)	0	3498	3420	0	1730	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		99.3	147.4		181.8	
Travel Time (s)		7.1	10.6		13.1	
Confl. Peds. (#/hr)	40			40	1	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	8%	3%	4%	29%	0%	0%
Adj. Flow (vph)	18	998	867	33	30	29
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1016	900	0	59	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	48.6%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	17	958	832	32	29	28
Future Volume (Veh/h)	17	958	832	32	29	28
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Hourly flow rate (vph)	18	998	867	33	30	29
Pedestrians			1		40	
Lane Width (m)			3.6		3.6	
Walking Speed (m/s)			1.2		1.2	
Percent Blockage			0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)		99	148			
pX, platoon unblocked	0.95				0.89	0.95
vC, conflicting volume	940				1460	490
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	836				1021	363
tC, single (s)	4.3				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.3				3.5	3.3
p0 queue free %	97				85	95
cM capacity (veh/h)	696				197	589

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	351	665	578	322	59
Volume Left	18	0	0	0	30
Volume Right	0	0	0	33	29
cSH	696	1700	1700	1700	293
Volume to Capacity	0.03	0.39	0.34	0.19	0.20
Queue Length 95th (m)	0.6	0.0	0.0	0.0	5.9
Control Delay (s)	0.8	0.0	0.0	0.0	20.4
Lane LOS	A				C
Approach Delay (s)	0.3		0.0		20.4
Approach LOS					C

Intersection Summary			
Average Delay	0.8		
Intersection Capacity Utilization	48.6%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection: 6: Cumberland Drive & Wanita Road

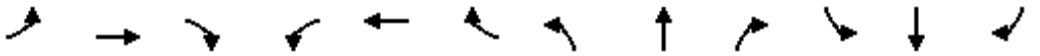
Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	12.0	10.7	13.2	19.0
Average Queue (m)	7.5	3.9	6.9	9.4
95th Queue (m)	13.2	11.2	13.4	17.4
Link Distance (m)	229.0		130.3	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: Wenonah Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	13.9	29.1	13.2	21.8
Average Queue (m)	4.0	11.9	7.7	10.8
95th Queue (m)	12.4	25.9	13.5	17.1
Link Distance (m)		123.7	160.8	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

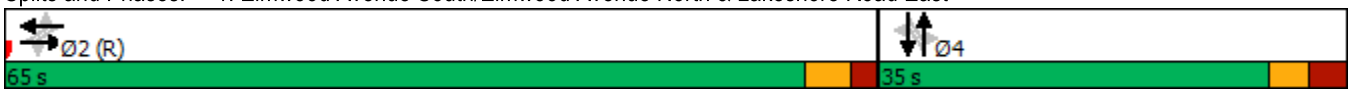


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1012	1	3	1186	0	1	0	1	0	0	0
Future Volume (vph)	0	1012	1	3	1186	0	1	0	1	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.97				
Frt								0.932				
Flt Protected								0.976				
Satd. Flow (prot)	0	3574	0	0	3574	0	0	1717	0	0	1900	0
Flt Permitted					0.953			0.954				
Satd. Flow (perm)	0	3574	0	0	3406	0	0	1645	0	0	1900	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)								27				
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		105.4			99.3			216.2			182.4	
Travel Time (s)		7.6			7.1			15.6			13.1	
Confl. Peds. (#/hr)	58		31	31		58	38		1	1		38
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	0	1054	1	3	1235	0	1	0	1	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1055	0	0	1238	0	0	2	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type		NA		Perm	NA		Perm	NA				
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	27.5	27.5		27.5	27.5		35.0	35.0		35.0	35.0	
Total Split (s)	65.0	65.0		65.0	65.0		35.0	35.0		35.0	35.0	
Total Split (%)	65.0%	65.0%		65.0%	65.0%		35.0%	35.0%		35.0%	35.0%	
Maximum Green (s)	59.5	59.5		59.5	59.5		29.0	29.0		29.0	29.0	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		3.0	3.0		3.0	3.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		5.5			5.5			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		Ped	Ped		Ped	Ped	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	12.0	12.0		12.0	12.0		19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		59.5			59.5			29.0				
Actuated g/C Ratio		0.60			0.60			0.29				
v/c Ratio		0.50			0.61			0.00				
Control Delay		12.6			14.5			0.0				
Queue Delay		0.0			0.0			0.0				
Total Delay		12.6			14.5			0.0				
LOS		B			B			A				
Approach Delay		12.6			14.5							
Approach LOS		B			B							

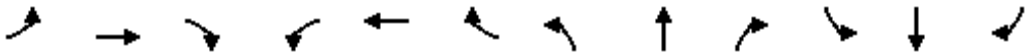
Intersection Summary			
Area Type:	Other		
Cycle Length: 100			
Actuated Cycle Length: 100			
Offset: 64 (64%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.61			
Intersection Signal Delay: 13.6		Intersection LOS: B	
Intersection Capacity Utilization 68.6%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 1: Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East



Lane Group	EBT	WBT	NBT
Lane Group Flow (vph)	1055	1238	2
v/c Ratio	0.50	0.61	0.00
Control Delay	12.6	14.5	0.0
Queue Delay	0.0	0.0	0.0
Total Delay	12.6	14.5	0.0
Queue Length 50th (m)	60.4	78.5	0.0
Queue Length 95th (m)	76.5	99.2	0.0
Internal Link Dist (m)	81.4	75.3	192.2
Turn Bay Length (m)			
Base Capacity (vph)	2126	2026	496
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.50	0.61	0.00

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1012	1	3	1186	0	1	0	1	0	0	0
Future Volume (vph)	0	1012	1	3	1186	0	1	0	1	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5			5.5			6.0				
Lane Util. Factor		0.95			0.95			1.00				
Frpb, ped/bikes		1.00			1.00			0.99				
Flpb, ped/bikes		1.00			1.00			0.98				
Frt		1.00			1.00			0.93				
Flt Protected		1.00			1.00			0.98				
Satd. Flow (prot)		3573			3574			1684				
Flt Permitted		1.00			0.95			0.95				
Satd. Flow (perm)		3573			3407			1645				
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	0	1054	1	3	1235	0	1	0	1	0	0	0
RTOR Reduction (vph)	0	0	0	0	0	0	0	1	0	0	0	0
Lane Group Flow (vph)	0	1055	0	0	1238	0	0	1	0	0	0	0
Confl. Peds. (#/hr)	58		31	31		58	38		1	1		38
Heavy Vehicles (%)	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
Turn Type		NA		Perm	NA		Perm	NA				
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)		59.5			59.5			29.0				
Effective Green, g (s)		59.5			59.5			29.0				
Actuated g/C Ratio		0.60			0.60			0.29				
Clearance Time (s)		5.5			5.5			6.0				
Vehicle Extension (s)		3.0			3.0			3.0				
Lane Grp Cap (vph)		2125			2027			477				
v/s Ratio Prot		0.30										
v/s Ratio Perm					c0.36			c0.00				
v/c Ratio		0.50			0.61			0.00				
Uniform Delay, d1		11.6			12.9			25.2				
Progression Factor		1.00			1.00			1.00				
Incremental Delay, d2		0.8			1.4			0.0				
Delay (s)		12.5			14.3			25.2				
Level of Service		B			B			C				
Approach Delay (s)		12.5			14.3			25.2			0.0	
Approach LOS		B			B			C			A	

Intersection Summary			
HCM 2000 Control Delay	13.5	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.41		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	11.5
Intersection Capacity Utilization	68.6%	ICU Level of Service	C
Analysis Period (min)	15		

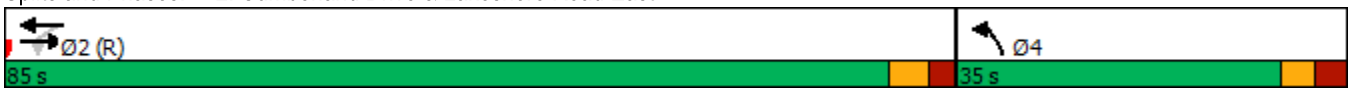
c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	943	56	41	1199	58	35
Future Volume (vph)	943	56	41	1199	58	35
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)		0.0	10.0		0.0	0.0
Storage Lanes		0	1		1	0
Taper Length (m)			37.0		7.5	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00		0.99		0.98	
Frt	0.992				0.949	
Flt Protected			0.950		0.970	
Satd. Flow (prot)	3535	0	1805	3574	1732	0
Flt Permitted			0.263		0.970	
Satd. Flow (perm)	3535	0	496	3574	1722	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	10				24	
Link Speed (k/h)	50			50	50	
Link Distance (m)	147.4			234.8	216.1	
Travel Time (s)	10.6			16.9	15.6	
Confl. Peds. (#/hr)		15	15		8	11
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	1%	0%	0%	1%	0%	0%
Adj. Flow (vph)	982	58	43	1249	60	36
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1040	0	43	1249	96	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Number of Detectors	2		1	2	1	
Detector Template	Thru		Left	Thru	Left	
Leading Detector (m)	10.0		2.0	10.0	2.0	
Trailing Detector (m)	0.0		0.0	0.0	0.0	
Detector 1 Position(m)	0.0		0.0	0.0	0.0	
Detector 1 Size(m)	0.6		2.0	0.6	2.0	
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	
Detector 2 Position(m)	9.4			9.4		
Detector 2 Size(m)	0.6			0.6		
Detector 2 Type	Cl+Ex			Cl+Ex		
Detector 2 Channel						
Detector 2 Extend (s)	0.0			0.0		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Detector Phase	2		2	2	4	
Switch Phase						
Minimum Initial (s)	10.0		10.0	10.0	10.0	
Minimum Split (s)	26.0		26.0	26.0	35.0	
Total Split (s)	85.0		85.0	85.0	35.0	
Total Split (%)	70.8%		70.8%	70.8%	29.2%	
Maximum Green (s)	79.0		79.0	79.0	29.0	
Yellow Time (s)	3.5		3.5	3.5	3.0	
All-Red Time (s)	2.5		2.5	2.5	3.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.0		6.0	6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	10.0		10.0	10.0	10.0	
Flash Dont Walk (s)	10.0		10.0	10.0	19.0	
Pedestrian Calls (#/hr)	0		0	0	0	
Act Effct Green (s)	96.4		96.4	96.4	11.6	
Actuated g/C Ratio	0.80		0.80	0.80	0.10	
v/c Ratio	0.37		0.11	0.44	0.51	
Control Delay	3.8		1.6	1.6	47.7	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	3.8		1.6	1.6	47.7	
LOS	A		A	A	D	
Approach Delay	3.8			1.6	47.7	
Approach LOS	A			A	D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 120			
Offset: 77 (64%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.51			
Intersection Signal Delay: 4.3		Intersection LOS: A	
Intersection Capacity Utilization 57.3%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Cumberland Drive & Lakeshore Road East



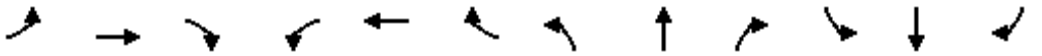
Lane Group	EBT	WBL	WBT	NBL
Lane Group Flow (vph)	1040	43	1249	96
v/c Ratio	0.37	0.11	0.44	0.51
Control Delay	3.8	1.6	1.6	47.7
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	3.8	1.6	1.6	47.7
Queue Length 50th (m)	27.8	0.6	8.8	17.3
Queue Length 95th (m)	44.4	1.4	11.7	34.2
Internal Link Dist (m)	123.4		210.8	192.1
Turn Bay Length (m)		10.0		
Base Capacity (vph)	2841	398	2870	436
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.37	0.11	0.44	0.22

Intersection Summary

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	943	56	41	1199	58	35
Future Volume (vph)	943	56	41	1199	58	35
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	6.0	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	0.99	
Flpb, ped/bikes	1.00		0.99	1.00	1.00	
Frt	0.99		1.00	1.00	0.95	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3534		1788	3574	1733	
Flt Permitted	1.00		0.26	1.00	0.97	
Satd. Flow (perm)	3534		495	3574	1733	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	982	58	43	1249	60	36
RTOR Reduction (vph)	2	0	0	0	22	0
Lane Group Flow (vph)	1038	0	43	1249	74	0
Confl. Peds. (#/hr)		15	15		8	11
Heavy Vehicles (%)	1%	0%	0%	1%	0%	0%
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Actuated Green, G (s)	96.4		96.4	96.4	11.6	
Effective Green, g (s)	96.4		96.4	96.4	11.6	
Actuated g/C Ratio	0.80		0.80	0.80	0.10	
Clearance Time (s)	6.0		6.0	6.0	6.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	2838		397	2871	167	
v/s Ratio Prot	0.29			c0.35	c0.04	
v/s Ratio Perm			0.09			
v/c Ratio	0.37		0.11	0.44	0.45	
Uniform Delay, d1	3.3		2.5	3.6	51.2	
Progression Factor	1.00		0.37	0.29	1.00	
Incremental Delay, d2	0.4		0.5	0.4	1.9	
Delay (s)	3.7		1.5	1.5	53.0	
Level of Service	A		A	A	D	
Approach Delay (s)	3.7			1.5	53.0	
Approach LOS	A			A	D	

Intersection Summary			
HCM 2000 Control Delay	4.5	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.44		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	12.0
Intersection Capacity Utilization	57.3%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

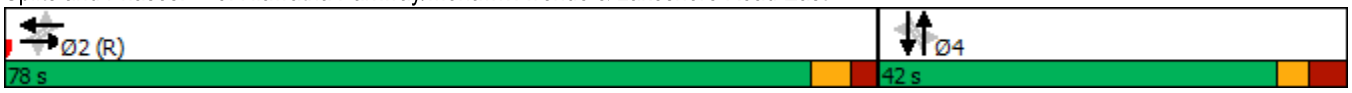


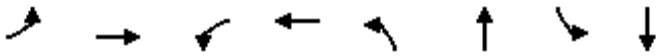
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	23	939	3	15	1126	16	6	0	16	99	1	13
Future Volume (vph)	23	939	3	15	1126	16	6	0	16	99	1	13
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	16.0		0.0	15.0		0.0	30.0		0.0	0.0		0.0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (m)	35.0			31.0			30.0			15.0		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		0.99	1.00		0.99	0.97		0.98	0.98	
Frt					0.998			0.850			0.860	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	3574	0	1736	3529	0	1805	1571	0	1805	1602	0
Flt Permitted	0.212			0.273			0.748			0.746		
Satd. Flow (perm)	400	3574	0	495	3529	0	1409	1571	0	1396	1602	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)					2			116			14	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		234.8			228.8			216.1			35.6	
Travel Time (s)		16.9			16.5			15.6			2.6	
Confl. Peds. (#/hr)	23		15	15		23	8		14	14		8
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	0%	1%	0%	4%	2%	0%	0%	33%	0%	0%	0%	0%
Adj. Flow (vph)	24	988	3	16	1185	17	6	0	17	104	1	14
Shared Lane Traffic (%)												
Lane Group Flow (vph)	24	991	0	16	1202	0	6	17	0	104	15	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.6			3.6			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	31.0	31.0		31.0	31.0		38.5	38.5		38.5	38.5	
Total Split (s)	78.0	78.0		78.0	78.0		42.0	42.0		42.0	42.0	
Total Split (%)	65.0%	65.0%		65.0%	65.0%		35.0%	35.0%		35.0%	35.0%	
Maximum Green (s)	72.0	72.0		72.0	72.0		35.5	35.5		35.5	35.5	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.5	2.5		2.5	2.5		3.5	3.5		3.5	3.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	15.0	15.0		15.0	15.0		22.0	22.0		22.0	22.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	92.8	92.8		92.8	92.8		14.7	14.7		14.7	14.7	
Actuated g/C Ratio	0.77	0.77		0.77	0.77		0.12	0.12		0.12	0.12	
v/c Ratio	0.08	0.36		0.04	0.44		0.03	0.06		0.61	0.07	
Control Delay	4.6	4.4		4.4	5.6		43.8	0.4		64.4	20.9	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	4.6	4.4		4.4	5.6		43.8	0.4		64.4	20.9	
LOS	A	A		A	A		D	A		E	C	
Approach Delay		4.4			5.6			11.7			58.9	
Approach LOS		A			A			B			E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 120			
Offset: 72 (60%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 70			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.61			
Intersection Signal Delay: 7.8		Intersection LOS: A	
Intersection Capacity Utilization 57.6%		ICU Level of Service B	
Analysis Period (min) 15			

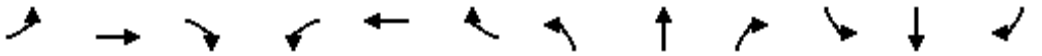
Splits and Phases: 3: Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East





Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	24	991	16	1202	6	17	104	15
v/c Ratio	0.08	0.36	0.04	0.44	0.03	0.06	0.61	0.07
Control Delay	4.6	4.4	4.4	5.6	43.8	0.4	64.4	20.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	4.6	4.4	4.4	5.6	43.8	0.4	64.4	20.9
Queue Length 50th (m)	1.1	32.2	0.8	44.3	1.3	0.0	24.9	0.2
Queue Length 95th (m)	3.8	38.4	3.1	70.1	5.3	0.0	41.8	6.6
Internal Link Dist (m)		210.8		204.8		192.1		11.6
Turn Bay Length (m)	16.0		15.0		30.0			
Base Capacity (vph)	309	2764	382	2730	416	546	412	483
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.36	0.04	0.44	0.01	0.03	0.25	0.03

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	23	939	3	15	1126	16	6	0	16	99	1	13
Future Volume (vph)	23	939	3	15	1126	16	6	0	16	99	1	13
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00		1.00	0.97		1.00	0.98	
Flpb, ped/bikes	0.99	1.00		0.99	1.00		0.99	1.00		0.98	1.00	
Frt	1.00	1.00		1.00	1.00		1.00	0.85		1.00	0.86	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1790	3572		1721	3529		1789	1571		1777	1602	
Flt Permitted	0.21	1.00		0.27	1.00		0.75	1.00		0.75	1.00	
Satd. Flow (perm)	400	3572		495	3529		1408	1571		1396	1602	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	24	988	3	16	1185	17	6	0	17	104	1	14
RTOR Reduction (vph)	0	0	0	0	0	0	0	15	0	0	12	0
Lane Group Flow (vph)	24	991	0	16	1202	0	6	2	0	104	3	0
Confl. Peds. (#/hr)	23		15	15		23	8		14	14		8
Heavy Vehicles (%)	0%	1%	0%	4%	2%	0%	0%	33%	0%	0%	0%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)	92.8	92.8		92.8	92.8		14.7	14.7		14.7	14.7	
Effective Green, g (s)	92.8	92.8		92.8	92.8		14.7	14.7		14.7	14.7	
Actuated g/C Ratio	0.77	0.77		0.77	0.77		0.12	0.12		0.12	0.12	
Clearance Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	309	2762		382	2729		172	192		171	196	
v/s Ratio Prot		0.28			c0.34			0.00			0.00	
v/s Ratio Perm	0.06			0.03			0.00			c0.07		
v/c Ratio	0.08	0.36		0.04	0.44		0.03	0.01		0.61	0.01	
Uniform Delay, d1	3.3	4.3		3.2	4.7		46.4	46.3		49.9	46.3	
Progression Factor	0.95	0.88		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.5	0.3		0.2	0.5		0.1	0.0		6.0	0.0	
Delay (s)	3.6	4.1		3.4	5.2		46.5	46.3		55.9	46.3	
Level of Service	A	A		A	A		D	D		E	D	
Approach Delay (s)		4.1			5.2			46.3			54.7	
Approach LOS		A			A			D			D	

Intersection Summary			
HCM 2000 Control Delay	7.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.46		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	12.5
Intersection Capacity Utilization	57.6%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1010	31	84	1190	29	80
Future Volume (vph)	1010	31	84	1190	29	80
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.996				0.901	
Flt Protected				0.997	0.987	
Satd. Flow (prot)	3561	0	0	3531	1690	0
Flt Permitted				0.997	0.987	
Satd. Flow (perm)	3561	0	0	3531	1690	0
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		35	35		9	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	1%	0%	1%	2%	0%	0%
Adj. Flow (vph)	1074	33	89	1266	31	85
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1107	0	0	1355	116	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	81.2%	ICU Level of Service	D
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1010	31	84	1190	29	80
Future Volume (Veh/h)	1010	31	84	1190	29	80
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	1074	33	89	1266	31	85
Pedestrians	9			1	35	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	1			0	3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.92		0.92	0.92
vC, conflicting volume			1142		1946	590
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			971		1848	367
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			86		39	85
cM capacity (veh/h)			633		51	564

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	716	391	511	844	116
Volume Left	0	0	89	0	31
Volume Right	0	33	0	0	85
cSH	1700	1700	633	1700	153
Volume to Capacity	0.42	0.23	0.14	0.50	0.76
Queue Length 95th (m)	0.0	0.0	3.9	0.0	37.3
Control Delay (s)	0.0	0.0	3.8	0.0	78.5
Lane LOS			A		F
Approach Delay (s)	0.0		1.4		78.5
Approach LOS					F

Intersection Summary			
Average Delay	4.3		
Intersection Capacity Utilization	81.2%	ICU Level of Service	D
Analysis Period (min)	15		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1010	31	84	1190	29	80
Future Volume (vph)	1010	31	84	1190	29	80
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.996					0.850
Flt Protected				0.997	0.950	
Satd. Flow (prot)	3561	0	0	3531	1805	1615
Flt Permitted				0.997	0.950	
Satd. Flow (perm)	3561	0	0	3531	1805	1615
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		35	35		9	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	1%	0%	1%	2%	0%	0%
Adj. Flow (vph)	1074	33	89	1266	31	85
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1107	0	0	1355	31	85
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	78.0%	ICU Level of Service	D
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1010	31	84	1190	29	80
Future Volume (Veh/h)	1010	31	84	1190	29	80
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	1074	33	89	1266	31	85
Pedestrians	9			1	35	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	1			0	3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.92		0.92	0.92
vC, conflicting volume			1142		1946	590
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			971		1848	367
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			86		39	85
cM capacity (veh/h)			633		51	564

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2
Volume Total	716	391	511	844	31	85
Volume Left	0	0	89	0	31	0
Volume Right	0	33	0	0	0	85
cSH	1700	1700	633	1700	51	564
Volume to Capacity	0.42	0.23	0.14	0.50	0.61	0.15
Queue Length 95th (m)	0.0	0.0	3.9	0.0	19.0	4.2
Control Delay (s)	0.0	0.0	3.8	0.0	151.1	12.5
Lane LOS			A		F	B
Approach Delay (s)	0.0		1.4		49.5	
Approach LOS					E	

Intersection Summary				
Average Delay	3.0			
Intersection Capacity Utilization	78.0%	ICU Level of Service		D
Analysis Period (min)	15			

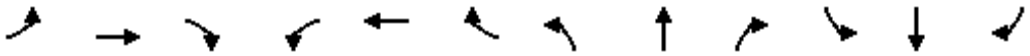
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	6	0	0	2	0	0
Future Volume (vph)	6	0	0	2	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt			0.865			
Flt Protected	0.950					
Satd. Flow (prot)	1805	0	1644	0	0	1900
Flt Permitted	0.950					
Satd. Flow (perm)	1805	0	1644	0	0	1900
Link Speed (k/h)	50		50			50
Link Distance (m)	246.0		102.9			216.2
Travel Time (s)	17.7		7.4			15.6
Confl. Peds. (#/hr)	6	29				
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	11	0	0	4	0	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	11	0	4	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	3.6		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 19.5%		ICU Level of Service A	
Analysis Period (min) 15			

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	6	0	0	2	0	0
Future Volume (Veh/h)	6	0	0	2	0	0
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Hourly flow rate (vph)	11	0	0	4	0	0
Pedestrians			6			29
Lane Width (m)			3.6			3.6
Walking Speed (m/s)			1.2			1.2
Percent Blockage			1			2
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (m)						216
pX, platoon unblocked						
vC, conflicting volume	8	31			4	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	8	31			4	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	100			100	
cM capacity (veh/h)	1013	1024			1631	

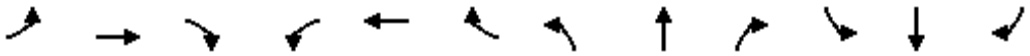
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	11	4	0
Volume Left	11	0	0
Volume Right	0	4	0
cSH	1013	1700	1700
Volume to Capacity	0.01	0.00	0.00
Queue Length 95th (m)	0.3	0.0	0.0
Control Delay (s)	8.6	0.0	0.0
Lane LOS	A		
Approach Delay (s)	8.6	0.0	0.0
Approach LOS	A		

Intersection Summary			
Average Delay	6.3		
Intersection Capacity Utilization	19.5%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	16	5	22	1	5	25	11	16	7	24	23	18
Future Volume (vph)	16	5	22	1	5	25	11	16	7	24	23	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.931			0.891			0.973			0.963	
Flt Protected		0.982			0.999			0.984			0.982	
Satd. Flow (prot)	0	1681	0	0	1691	0	0	1708	0	0	1642	0
Flt Permitted		0.982			0.999			0.984			0.982	
Satd. Flow (perm)	0	1681	0	0	1691	0	0	1708	0	0	1642	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		246.0			233.0			138.8			216.1	
Travel Time (s)		17.7			16.8			10.0			15.6	
Confl. Peds. (#/hr)	22		1	1		22	22		1	1		22
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles (%)	9%	0%	0%	0%	0%	0%	0%	14%	0%	13%	13%	0%
Adj. Flow (vph)	21	7	29	1	7	33	15	21	9	32	31	24
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	57	0	0	41	0	0	45	0	0	87	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

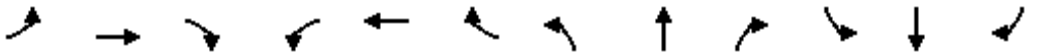
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 25.6%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	16	5	22	1	5	25	11	16	7	24	23	18
Future Volume (vph)	16	5	22	1	5	25	11	16	7	24	23	18
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Hourly flow rate (vph)	21	7	29	1	7	33	15	21	9	32	31	24

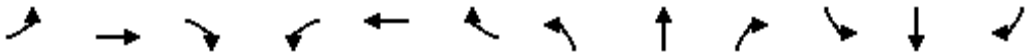
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	57	41	45	87
Volume Left (vph)	21	1	15	32
Volume Right (vph)	29	33	9	24
Hadj (s)	-0.18	-0.48	0.06	0.07
Departure Headway (s)	4.1	3.8	4.2	4.2
Degree Utilization, x	0.06	0.04	0.05	0.10
Capacity (veh/h)	854	914	815	830
Control Delay (s)	7.3	6.9	7.5	7.7
Approach Delay (s)	7.3	6.9	7.5	7.7
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.4			
Level of Service	A			
Intersection Capacity Utilization	25.6%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Future Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt												
Flt Protected												
Satd. Flow (prot)	0	1900	0	0	1900	0	0	1900	0	0	1776	0
Flt Permitted												
Satd. Flow (perm)	0	1900	0	0	1900	0	0	1900	0	0	1776	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		233.0			228.0			131.6			216.1	
Travel Time (s)		16.8			16.4			9.5			15.6	
Confl. Peds. (#/hr)	6		1	1		6	9		3	3		9
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Heavy Vehicles (%)	50%	0%	0%	0%	0%	0%	0%	0%	0%	29%	7%	0%
Adj. Flow (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

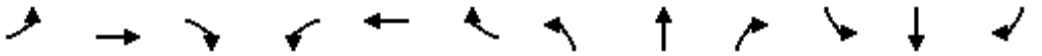
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	17.7%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Future Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Hourly flow rate (vph)	0	0	0	0	0	0	0	0	0	0	0	0

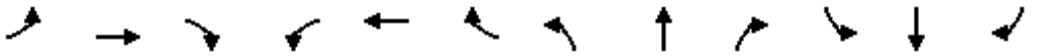
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	0	0	0	0
Volume Left (vph)	0	0	0	0
Volume Right (vph)	0	0	0	0
Hadj (s)	0.00	0.00	0.00	0.00
Departure Headway (s)	3.9	3.9	3.9	3.9
Degree Utilization, x	0.00	0.00	0.00	0.00
Capacity (veh/h)	917	917	917	917
Control Delay (s)	6.9	6.9	6.9	6.9
Approach Delay (s)	0.0	0.0	0.0	0.0
Approach LOS	A	A	A	A

Intersection Summary				
Delay	0.0			
Level of Service	A			
Intersection Capacity Utilization	17.7%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	11	5	1	14	5	57	1	35	17	41	46	9
Future Volume (vph)	11	5	1	14	5	57	1	35	17	41	46	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.994			0.899			0.957			0.987	
Flt Protected		0.968			0.991			0.999			0.979	
Satd. Flow (prot)	0	1632	0	0	1693	0	0	1769	0	0	1836	0
Flt Permitted		0.968			0.991			0.999			0.979	
Satd. Flow (perm)	0	1632	0	0	1693	0	0	1769	0	0	1836	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		228.0			132.1			169.2			216.1	
Travel Time (s)		16.4			9.5			12.2			15.6	
Confl. Peds. (#/hr)	5		2	2		5			11	11		
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Heavy Vehicles (%)	18%	0%	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%
Adj. Flow (vph)	16	7	1	20	7	81	1	50	24	59	66	13
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	24	0	0	108	0	0	75	0	0	138	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

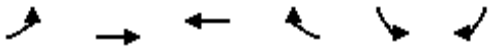
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 24.8%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	11	5	1	14	5	57	1	35	17	41	46	9
Future Volume (vph)	11	5	1	14	5	57	1	35	17	41	46	9
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Hourly flow rate (vph)	16	7	1	20	7	81	1	50	24	59	66	13

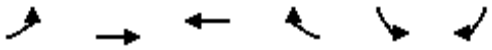
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	24	108	75	138
Volume Left (vph)	16	20	1	59
Volume Right (vph)	1	81	24	13
Hadj (s)	0.31	-0.41	-0.14	0.03
Departure Headway (s)	4.8	4.0	4.2	4.3
Degree Utilization, x	0.03	0.12	0.09	0.16
Capacity (veh/h)	699	855	819	801
Control Delay (s)	8.0	7.5	7.6	8.1
Approach Delay (s)	8.0	7.5	7.6	8.1
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.8			
Level of Service	A			
Intersection Capacity Utilization	24.8%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	42	993	1112	22	6	52
Future Volume (vph)	42	993	1112	22	6	52
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.997		0.878	
Flt Protected		0.998			0.995	
Satd. Flow (prot)	0	3529	3564	0	1660	0
Flt Permitted		0.998			0.995	
Satd. Flow (perm)	0	3529	3564	0	1660	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		168.4	105.4		179.3	
Travel Time (s)		12.1	7.6		12.9	
Confl. Peds. (#/hr)	34			34	4	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	4%	2%	1%	0%	0%	0%
Adj. Flow (vph)	44	1045	1171	23	6	55
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1089	1194	0	61	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	100			100	100	100
Sign Control		Free	Free		Stop	

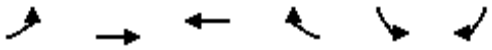
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 68.9%		ICU Level of Service C	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	42	993	1112	22	6	52
Future Volume (Veh/h)	42	993	1112	22	6	52
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	44	1045	1171	23	6	55
Pedestrians		1	4		34	
Lane Width (m)		3.6	3.6		3.6	
Walking Speed (m/s)		1.2	1.2		1.2	
Percent Blockage		0	0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)			105			
pX, platoon unblocked	0.78				0.78	0.78
vC, conflicting volume	1228				1831	632
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	733				1504	0
tC, single (s)	4.2				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	93				93	93
cM capacity (veh/h)	649				81	828

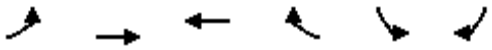
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	392	697	781	413	61
Volume Left	44	0	0	0	6
Volume Right	0	0	0	23	55
cSH	649	1700	1700	1700	433
Volume to Capacity	0.07	0.41	0.46	0.24	0.14
Queue Length 95th (m)	1.7	0.0	0.0	0.0	3.9
Control Delay (s)	2.1	0.0	0.0	0.0	14.7
Lane LOS	A				B
Approach Delay (s)	0.7		0.0		14.7
Approach LOS					B

Intersection Summary			
Average Delay	0.7		
Intersection Capacity Utilization	68.9%	ICU Level of Service	C
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	25	945	1055	59	16	35
Future Volume (vph)	25	945	1055	59	16	35
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.992		0.907	
Flt Protected		0.999			0.985	
Satd. Flow (prot)	0	3537	3581	0	1663	0
Flt Permitted		0.999			0.985	
Satd. Flow (perm)	0	3537	3581	0	1663	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		99.3	147.4		181.8	
Travel Time (s)		7.1	10.6		13.1	
Confl. Peds. (#/hr)	25			25	2	4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	2%	0%	0%	0%	3%
Adj. Flow (vph)	27	1027	1147	64	17	38
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1054	1211	0	55	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	100			100	100	100
Sign Control		Free	Free		Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 55.3%		ICU Level of Service B	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	25	945	1055	59	16	35
Future Volume (Veh/h)	25	945	1055	59	16	35
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	27	1027	1147	64	17	38
Pedestrians		4	2		25	
Lane Width (m)		3.6	3.6		3.6	
Walking Speed (m/s)		1.2	1.2		1.2	
Percent Blockage		0	0		2	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)		99	148			
pX, platoon unblocked	0.89				0.88	0.89
vC, conflicting volume	1236				1774	634
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1029				1068	357
tC, single (s)	4.1				6.8	7.0
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	95				91	93
cM capacity (veh/h)	598				181	556

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	369	685	765	446	55
Volume Left	27	0	0	0	17
Volume Right	0	0	0	64	38
cSH	598	1700	1700	1700	338
Volume to Capacity	0.05	0.40	0.45	0.26	0.16
Queue Length 95th (m)	1.1	0.0	0.0	0.0	4.6
Control Delay (s)	1.4	0.0	0.0	0.0	17.7
Lane LOS	A				C
Approach Delay (s)	0.5		0.0		17.7
Approach LOS					C

Intersection Summary			
Average Delay	0.6		
Intersection Capacity Utilization	55.3%	ICU Level of Service	B
Analysis Period (min)	15		

Intersection: 6: Cumberland Drive & Wanita Road

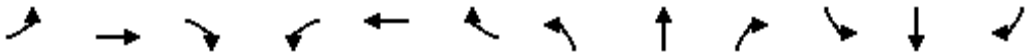
Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	18.2	10.7	19.2	19.6
Average Queue (m)	7.3	5.8	7.4	9.7
95th Queue (m)	15.1	12.8	15.5	18.0
Link Distance (m)	229.0		130.3	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: Wenonah Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	19.9	17.5	17.2	14.8
Average Queue (m)	4.3	8.3	8.1	9.1
95th Queue (m)	13.8	13.3	14.6	13.0
Link Distance (m)		123.7	160.8	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

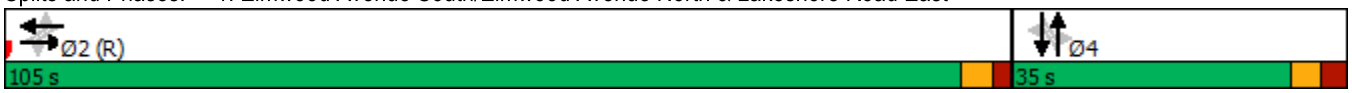


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1216	1	7	1094	0	7	0	6	0	0	0
Future Volume (vph)	0	1216	1	7	1094	0	7	0	6	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.95				
Frt								0.938				
Flt Protected								0.974				
Satd. Flow (prot)	0	3505	0	0	3505	0	0	1725	0	0	1900	0
Flt Permitted					0.946			0.912				
Satd. Flow (perm)	0	3505	0	0	3316	0	0	1549	0	0	1900	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)								19				
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		105.4			99.3			216.2			182.4	
Travel Time (s)		7.6			7.1			15.6			13.1	
Confl. Peds. (#/hr)	31		42	42		31	53		1	1		53
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	0%	3%	0%	0%	3%	0%	0%	0%	0%	24%	0%	13%
Adj. Flow (vph)	0	1241	1	7	1116	0	7	0	6	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1242	0	0	1123	0	0	13	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type		NA		Perm	NA		Perm	NA				
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	27.5	27.5		27.5	27.5		35.0	35.0		35.0	35.0	
Total Split (s)	105.0	105.0		105.0	105.0		35.0	35.0		35.0	35.0	
Total Split (%)	75.0%	75.0%		75.0%	75.0%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)	99.5	99.5		99.5	99.5		29.0	29.0		29.0	29.0	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		3.0	3.0		3.0	3.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		5.5			5.5			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		Ped	Ped		Ped	Ped	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	12.0	12.0		12.0	12.0		19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		99.5			99.5			29.0				
Actuated g/C Ratio		0.71			0.71			0.21				
v/c Ratio		0.50			0.48			0.04				
Control Delay		9.9			7.7			12.6				
Queue Delay		0.0			0.1			0.0				
Total Delay		9.9			7.8			12.6				
LOS		A			A			B				
Approach Delay		9.9			7.8			12.6				
Approach LOS		A			A			B				

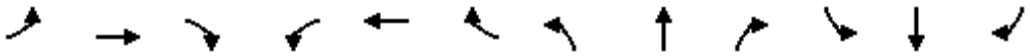
Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 3 (2%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.50			
Intersection Signal Delay: 8.9		Intersection LOS: A	
Intersection Capacity Utilization 68.9%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 1: Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East



Lane Group	EBT	WBT	NBT
Lane Group Flow (vph)	1242	1123	13
v/c Ratio	0.50	0.48	0.04
Control Delay	9.9	7.7	12.6
Queue Delay	0.0	0.1	0.0
Total Delay	9.9	7.8	12.6
Queue Length 50th (m)	77.7	47.8	0.0
Queue Length 95th (m)	92.0	54.3	4.7
Internal Link Dist (m)	81.4	75.3	192.2
Turn Bay Length (m)			
Base Capacity (vph)	2491	2356	335
Starvation Cap Reductn	0	275	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.50	0.54	0.04

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1216	1	7	1094	0	7	0	6	0	0	0
Future Volume (vph)	0	1216	1	7	1094	0	7	0	6	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5			5.5			6.0				
Lane Util. Factor		0.95			0.95			1.00				
Frpb, ped/bikes		1.00			1.00			0.99				
Flpb, ped/bikes		1.00			1.00			0.96				
Frt		1.00			1.00			0.94				
Flt Protected		1.00			1.00			0.97				
Satd. Flow (prot)		3504			3504			1653				
Flt Permitted		1.00			0.95			0.91				
Satd. Flow (perm)		3504			3314			1548				
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	0	1241	1	7	1116	0	7	0	6	0	0	0
RTOR Reduction (vph)	0	0	0	0	0	0	0	10	0	0	0	0
Lane Group Flow (vph)	0	1242	0	0	1123	0	0	3	0	0	0	0
Confl. Peds. (#/hr)	31		42	42		31	53		1	1		53
Heavy Vehicles (%)	0%	3%	0%	0%	3%	0%	0%	0%	0%	24%	0%	13%
Turn Type		NA		Perm	NA		Perm	NA				
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)		99.5			99.5			29.0				
Effective Green, g (s)		99.5			99.5			29.0				
Actuated g/C Ratio		0.71			0.71			0.21				
Clearance Time (s)		5.5			5.5			6.0				
Vehicle Extension (s)		3.0			3.0			3.0				
Lane Grp Cap (vph)		2490			2355			320				
v/s Ratio Prot		c0.35										
v/s Ratio Perm					0.34			c0.00				
v/c Ratio		0.50			0.48			0.01				
Uniform Delay, d1		9.1			8.9			44.1				
Progression Factor		1.00			0.78			1.00				
Incremental Delay, d2		0.7			0.7			0.0				
Delay (s)		9.8			7.6			44.1				
Level of Service		A			A			D				
Approach Delay (s)		9.8			7.6			44.1			0.0	
Approach LOS		A			A			D			A	

Intersection Summary			
HCM 2000 Control Delay	9.0	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.39		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	11.5
Intersection Capacity Utilization	68.9%	ICU Level of Service	C
Analysis Period (min)	15		

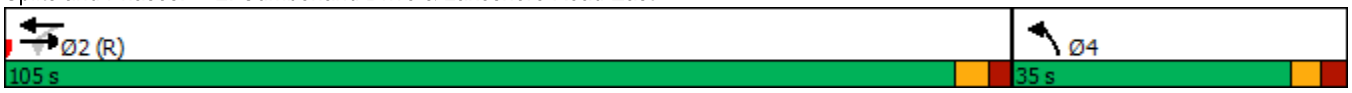
c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1166	54	31	1084	48	32
Future Volume (vph)	1166	54	31	1084	48	32
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)		0.0	10.0		0.0	0.0
Storage Lanes		0	1		1	0
Taper Length (m)			37.0		7.5	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00		0.99		0.98	
Frt	0.993				0.946	
Flt Protected			0.950		0.971	
Satd. Flow (prot)	3459	0	1703	3471	1719	0
Flt Permitted			0.210		0.971	
Satd. Flow (perm)	3459	0	374	3471	1708	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	8				22	
Link Speed (k/h)	50			50	50	
Link Distance (m)	147.4			234.8	216.1	
Travel Time (s)	10.6			16.9	15.6	
Confl. Peds. (#/hr)		17	17		7	18
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	3%	9%	6%	4%	0%	0%
Adj. Flow (vph)	1190	55	32	1106	49	33
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1245	0	32	1106	82	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Number of Detectors	2		1	2	1	
Detector Template	Thru		Left	Thru	Left	
Leading Detector (m)	10.0		2.0	10.0	2.0	
Trailing Detector (m)	0.0		0.0	0.0	0.0	
Detector 1 Position(m)	0.0		0.0	0.0	0.0	
Detector 1 Size(m)	0.6		2.0	0.6	2.0	
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	
Detector 2 Position(m)	9.4			9.4		
Detector 2 Size(m)	0.6			0.6		
Detector 2 Type	Cl+Ex			Cl+Ex		
Detector 2 Channel						
Detector 2 Extend (s)	0.0			0.0		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Detector Phase	2		2	2	4	
Switch Phase						
Minimum Initial (s)	10.0		10.0	10.0	10.0	
Minimum Split (s)	26.0		26.0	26.0	35.0	
Total Split (s)	105.0		105.0	105.0	35.0	
Total Split (%)	75.0%		75.0%	75.0%	25.0%	
Maximum Green (s)	99.0		99.0	99.0	29.0	
Yellow Time (s)	3.5		3.5	3.5	3.0	
All-Red Time (s)	2.5		2.5	2.5	3.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.0		6.0	6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	10.0		10.0	10.0	10.0	
Flash Dont Walk (s)	10.0		10.0	10.0	19.0	
Pedestrian Calls (#/hr)	0		0	0	0	
Act Effct Green (s)	116.5		116.5	116.5	11.5	
Actuated g/C Ratio	0.83		0.83	0.83	0.08	
v/c Ratio	0.43		0.10	0.38	0.51	
Control Delay	1.3		3.2	3.3	55.5	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	1.3		3.2	3.3	55.5	
LOS	A		A	A	E	
Approach Delay	1.3			3.3	55.5	
Approach LOS	A			A	E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 17 (12%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.51			
Intersection Signal Delay: 4.1		Intersection LOS: A	
Intersection Capacity Utilization 59.5%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Cumberland Drive & Lakeshore Road East



Lane Group	EBT	WBL	WBT	NBL
Lane Group Flow (vph)	1245	32	1106	82
v/c Ratio	0.43	0.10	0.38	0.51
Control Delay	1.3	3.2	3.3	55.5
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	1.3	3.2	3.3	55.5
Queue Length 50th (m)	8.7	1.3	30.5	17.1
Queue Length 95th (m)	10.9	m3.9	46.3	34.3
Internal Link Dist (m)	123.4		210.8	192.1
Turn Bay Length (m)		10.0		
Base Capacity (vph)	2878	311	2887	373
Starvation Cap Reductn	109	0	217	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.45	0.10	0.41	0.22

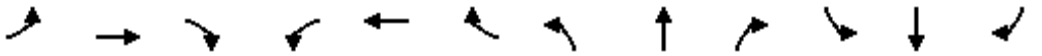
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1166	54	31	1084	48	32
Future Volume (vph)	1166	54	31	1084	48	32
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	6.0	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	0.98	
Flpb, ped/bikes	1.00		0.99	1.00	1.00	
Frt	0.99		1.00	1.00	0.95	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3461		1688	3471	1718	
Flt Permitted	1.00		0.21	1.00	0.97	
Satd. Flow (perm)	3461		373	3471	1718	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	1190	55	32	1106	49	33
RTOR Reduction (vph)	1	0	0	0	20	0
Lane Group Flow (vph)	1244	0	32	1106	62	0
Confl. Peds. (#/hr)		17	17		7	18
Heavy Vehicles (%)	3%	9%	6%	4%	0%	0%
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Actuated Green, G (s)	116.5		116.5	116.5	11.5	
Effective Green, g (s)	116.5		116.5	116.5	11.5	
Actuated g/C Ratio	0.83		0.83	0.83	0.08	
Clearance Time (s)	6.0		6.0	6.0	6.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	2880		310	2888	141	
v/s Ratio Prot	c0.36			0.32	c0.04	
v/s Ratio Perm			0.09			
v/c Ratio	0.43		0.10	0.38	0.44	
Uniform Delay, d1	3.1		2.2	2.9	61.2	
Progression Factor	0.28		1.00	0.97	1.00	
Incremental Delay, d2	0.4		0.6	0.4	2.2	
Delay (s)	1.3		2.8	3.2	63.3	
Level of Service	A		A	A	E	
Approach Delay (s)	1.3			3.1	63.3	
Approach LOS	A			A	E	

Intersection Summary			
HCM 2000 Control Delay	4.2	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.43		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	12.0
Intersection Capacity Utilization	59.5%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

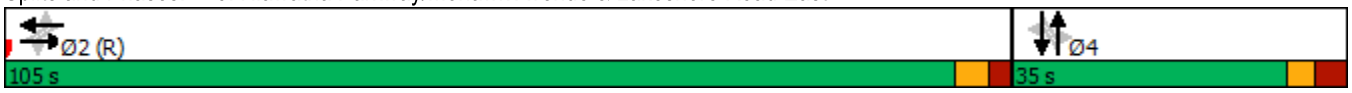


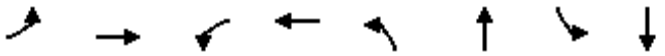
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	17	1089	9	12	1010	27	12	5	18	175	3	20
Future Volume (vph)	17	1089	9	12	1010	27	12	5	18	175	3	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	16.0		0.0	15.0		0.0	30.0		0.0	0.0		0.0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (m)	35.0			31.0			30.0			15.0		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		1.00	1.00		0.99	0.97		0.97	0.98	
Frt		0.999			0.996			0.885			0.868	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1687	3465	0	1719	3415	0	1770	1549	0	1787	1586	0
Flt Permitted	0.212			0.194			0.741			0.740		
Satd. Flow (perm)	374	3465	0	350	3415	0	1363	1549	0	1357	1586	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1			5			20			22	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		234.8			228.8			216.1			35.6	
Travel Time (s)		16.9			16.5			15.6			2.6	
Confl. Peds. (#/hr)	15		11	11		15	10		20	20		10
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	7%	4%	7%	5%	5%	10%	2%	0%	7%	1%	14%	0%
Adj. Flow (vph)	19	1224	10	13	1135	30	13	6	20	197	3	22
Shared Lane Traffic (%)												
Lane Group Flow (vph)	19	1234	0	13	1165	0	13	26	0	197	25	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.6			3.6			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	31.0	31.0		31.0	31.0		38.5	38.5		38.5	38.5	
Total Split (s)	105.0	105.0		105.0	105.0		35.0	35.0		35.0	35.0	
Total Split (%)	75.0%	75.0%		75.0%	75.0%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)	99.0	99.0		99.0	99.0		28.5	28.5		28.5	28.5	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.5	2.5		2.5	2.5		3.5	3.5		3.5	3.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	15.0	15.0		15.0	15.0		22.0	22.0		22.0	22.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	103.2	103.2		103.2	103.2		24.3	24.3		24.3	24.3	
Actuated g/C Ratio	0.74	0.74		0.74	0.74		0.17	0.17		0.17	0.17	
v/c Ratio	0.07	0.48		0.05	0.46		0.06	0.09		0.84	0.09	
Control Delay	2.2	2.7		6.7	8.4		46.3	22.2		84.1	19.3	
Queue Delay	0.0	0.1		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	2.2	2.8		6.7	8.4		46.3	22.2		84.1	19.3	
LOS	A	A		A	A		D	C		F	B	
Approach Delay		2.8			8.4			30.3			76.8	
Approach LOS		A			A			C			E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 140			
Actuated Cycle Length: 140			
Offset: 36 (26%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 70			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.84			
Intersection Signal Delay: 11.7		Intersection LOS: B	
Intersection Capacity Utilization 60.1%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 3: Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East

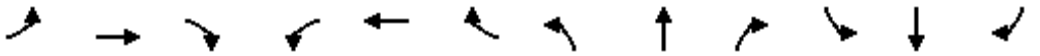




Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	19	1234	13	1165	13	26	197	25
v/c Ratio	0.07	0.48	0.05	0.46	0.06	0.09	0.84	0.09
Control Delay	2.2	2.7	6.7	8.4	46.3	22.2	84.1	19.3
Queue Delay	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	2.2	2.8	6.7	8.4	46.3	22.2	84.1	19.3
Queue Length 50th (m)	0.4	17.4	1.0	66.2	3.2	1.5	55.5	0.7
Queue Length 95th (m)	m1.2	20.7	3.3	84.6	9.2	9.9	#83.4	9.1
Internal Link Dist (m)		210.8		204.8		192.1		11.6
Turn Bay Length (m)	16.0		15.0		30.0			
Base Capacity (vph)	275	2555	258	2519	277	331	276	340
Starvation Cap Reductn	0	243	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.07	0.53	0.05	0.46	0.05	0.08	0.71	0.07

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	17	1089	9	12	1010	27	12	5	18	175	3	20
Future Volume (vph)	17	1089	9	12	1010	27	12	5	18	175	3	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00		1.00	0.97		1.00	0.98	
Flpb, ped/bikes	0.99	1.00		1.00	1.00		0.99	1.00		0.97	1.00	
Frt	1.00	1.00		1.00	1.00		1.00	0.88		1.00	0.87	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1677	3465		1712	3415		1747	1549		1742	1586	
Flt Permitted	0.21	1.00		0.19	1.00		0.74	1.00		0.74	1.00	
Satd. Flow (perm)	375	3465		350	3415		1363	1549		1357	1586	
Peak-hour factor, PHF	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	19	1224	10	13	1135	30	13	6	20	197	3	22
RTOR Reduction (vph)	0	0	0	0	1	0	0	17	0	0	18	0
Lane Group Flow (vph)	19	1234	0	13	1164	0	13	9	0	197	7	0
Confl. Peds. (#/hr)	15		11	11		15	10		20	20		10
Heavy Vehicles (%)	7%	4%	7%	5%	5%	10%	2%	0%	7%	1%	14%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)	103.2	103.2		103.2	103.2		24.3	24.3		24.3	24.3	
Effective Green, g (s)	103.2	103.2		103.2	103.2		24.3	24.3		24.3	24.3	
Actuated g/C Ratio	0.74	0.74		0.74	0.74		0.17	0.17		0.17	0.17	
Clearance Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	276	2554		258	2517		236	268		235	275	
v/s Ratio Prot		c0.36			0.34			0.01			0.00	
v/s Ratio Perm	0.05			0.04			0.01			c0.15		
v/c Ratio	0.07	0.48		0.05	0.46		0.06	0.04		0.84	0.02	
Uniform Delay, d1	5.1	7.5		5.0	7.3		48.3	48.1		55.9	48.0	
Progression Factor	0.28	0.26		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.4	0.6		0.4	0.6		0.1	0.1		22.2	0.0	
Delay (s)	1.9	2.6		5.4	8.0		48.4	48.2		78.1	48.1	
Level of Service	A	A		A	A		D	D		E	D	
Approach Delay (s)		2.6			7.9			48.2			74.7	
Approach LOS		A			A			D			E	

Intersection Summary			
HCM 2000 Control Delay	11.5	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.55		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	12.5
Intersection Capacity Utilization	60.1%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1279	44	96	1086	33	114
Future Volume (vph)	1279	44	96	1086	33	114
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.995				0.895	
Flt Protected				0.996	0.989	
Satd. Flow (prot)	3487	0	0	3455	1619	0
Flt Permitted				0.996	0.989	
Satd. Flow (perm)	3487	0	0	3455	1619	0
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		21	21		1	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	3%	3%	5%	4%	0%	5%
Adj. Flow (vph)	1405	48	105	1193	36	125
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1453	0	0	1298	161	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 90.5%		ICU Level of Service E	
Analysis Period (min) 15			

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1279	44	96	1086	33	114
Future Volume (Veh/h)	1279	44	96	1086	33	114
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (vph)	1405	48	105	1193	36	125
Pedestrians	1			11	21	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	0			1	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.85		0.85	0.85
vC, conflicting volume			1474		2258	758
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1203		2126	361
tC, single (s)			4.2		6.8	7.0
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			77		0	76
cM capacity (veh/h)			467		28	519

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	937	516	503	795	161
Volume Left	0	0	105	0	36
Volume Right	0	48	0	0	125
cSH	1700	1700	467	1700	107
Volume to Capacity	0.55	0.30	0.23	0.47	1.51
Queue Length 95th (m)	0.0	0.0	6.8	0.0	95.0
Control Delay (s)	0.0	0.0	6.6	0.0	343.7
Lane LOS			A		F
Approach Delay (s)	0.0		2.6		343.7
Approach LOS					F

Intersection Summary			
Average Delay	20.1		
Intersection Capacity Utilization	90.5%	ICU Level of Service	E
Analysis Period (min)	15		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1279	44	96	1086	33	114
Future Volume (vph)	1279	44	96	1086	33	114
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.995					0.850
Flt Protected				0.996	0.950	
Satd. Flow (prot)	3487	0	0	3455	1805	1538
Flt Permitted				0.996	0.950	
Satd. Flow (perm)	3487	0	0	3455	1805	1538
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		21	21		1	11
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	3%	3%	5%	4%	0%	5%
Adj. Flow (vph)	1405	48	105	1193	36	125
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1453	0	0	1298	36	125
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	86.0%	ICU Level of Service	E
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1279	44	96	1086	33	114
Future Volume (Veh/h)	1279	44	96	1086	33	114
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Hourly flow rate (vph)	1405	48	105	1193	36	125
Pedestrians	1			11	21	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	0			1	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.85		0.85	0.85
vC, conflicting volume			1474		2258	758
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1203		2126	361
tC, single (s)			4.2		6.8	7.0
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			77		0	76
cM capacity (veh/h)			467		28	519

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2
Volume Total	937	516	503	795	36	125
Volume Left	0	0	105	0	36	0
Volume Right	0	48	0	0	0	125
cSH	1700	1700	467	1700	28	519
Volume to Capacity	0.55	0.30	0.23	0.47	1.27	0.24
Queue Length 95th (m)	0.0	0.0	6.8	0.0	33.5	7.5
Control Delay (s)	0.0	0.0	6.6	0.0	468.4	14.1
Lane LOS			A		F	B
Approach Delay (s)	0.0		2.6		115.7	
Approach LOS					F	

Intersection Summary			
Average Delay	7.5		
Intersection Capacity Utilization	86.0%	ICU Level of Service	E
Analysis Period (min)	15		

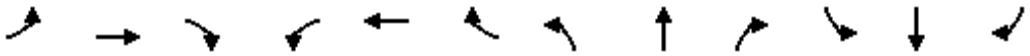
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	11	0	0	10	0	0
Future Volume (vph)	11	0	0	10	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt			0.865			
Flt Protected	0.950					
Satd. Flow (prot)	1805	0	1644	0	0	1900
Flt Permitted	0.950					
Satd. Flow (perm)	1805	0	1644	0	0	1900
Link Speed (k/h)	50		50			50
Link Distance (m)	246.0		102.9			216.2
Travel Time (s)	17.7		7.4			15.6
Confl. Peds. (#/hr)	10	22				
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	22	0	0	20	0	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	22	0	20	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	3.6		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 18.5%		ICU Level of Service A	
Analysis Period (min) 15			

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	11	0	0	10	0	0
Future Volume (Veh/h)	11	0	0	10	0	0
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.50	0.50	0.50	0.50	0.50	0.50
Hourly flow rate (vph)	22	0	0	20	0	0
Pedestrians			10			22
Lane Width (m)			3.6			3.6
Walking Speed (m/s)			1.2			1.2
Percent Blockage			1			2
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (m)						216
pX, platoon unblocked						
vC, conflicting volume	20	32			20	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	20	32			20	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	98	100			100	
cM capacity (veh/h)	994	1028			1609	

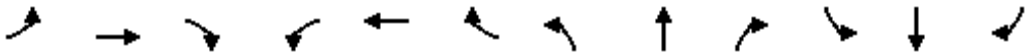
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	22	20	0
Volume Left	22	0	0
Volume Right	0	20	0
cSH	994	1700	1700
Volume to Capacity	0.02	0.01	0.00
Queue Length 95th (m)	0.5	0.0	0.0
Control Delay (s)	8.7	0.0	0.0
Lane LOS	A		
Approach Delay (s)	8.7	0.0	0.0
Approach LOS	A		

Intersection Summary			
Average Delay	4.6		
Intersection Capacity Utilization	18.5%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	5	25	1	5	16	11	21	5	32	22	18
Future Volume (vph)	21	5	25	1	5	16	11	21	5	32	22	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.934			0.905			0.981			0.966	
Flt Protected		0.980			0.997			0.985			0.978	
Satd. Flow (prot)	0	1739	0	0	1714	0	0	1836	0	0	1677	0
Flt Permitted		0.980			0.997			0.985			0.978	
Satd. Flow (perm)	0	1739	0	0	1714	0	0	1836	0	0	1677	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		246.0			233.0			138.8			216.1	
Travel Time (s)		17.7			16.8			10.0			15.6	
Confl. Peds. (#/hr)	23		5	5		23	14		3	3		14
Peak Hour Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	23%	0%
Adj. Flow (vph)	32	8	38	2	8	24	17	32	8	48	33	27
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	78	0	0	34	0	0	57	0	0	108	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

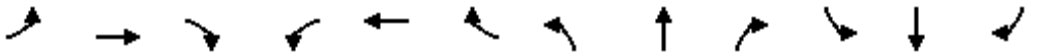
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 26.3%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	21	5	25	1	5	16	11	21	5	32	22	18
Future Volume (vph)	21	5	25	1	5	16	11	21	5	32	22	18
Peak Hour Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Hourly flow rate (vph)	32	8	38	2	8	24	17	32	8	48	33	27

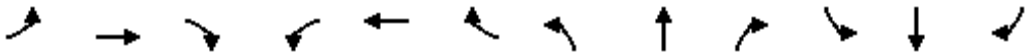
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	78	34	57	108
Volume Left (vph)	32	2	17	48
Volume Right (vph)	38	24	8	27
Hadj (s)	-0.21	-0.41	-0.02	0.06
Departure Headway (s)	4.1	3.9	4.2	4.3
Degree Utilization, x	0.09	0.04	0.07	0.13
Capacity (veh/h)	841	869	817	821
Control Delay (s)	7.5	7.1	7.5	7.9
Approach Delay (s)	7.5	7.1	7.5	7.9
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.6			
Level of Service	A			
Intersection Capacity Utilization	26.3%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Future Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt												
Flt Protected												
Satd. Flow (prot)	0	1900	0	0	1900	0	0	1776	0	0	1900	0
Flt Permitted												
Satd. Flow (perm)	0	1900	0	0	1900	0	0	1776	0	0	1900	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		233.0			228.0			131.6			216.1	
Travel Time (s)		16.8			16.4			9.5			15.6	
Confl. Peds. (#/hr)	5		1	1		5	12		14	14		12
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Heavy Vehicles (%)	0%	0%	0%	100%	0%	7%	0%	7%	0%	0%	0%	0%
Adj. Flow (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

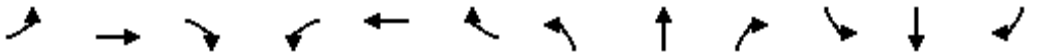
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	18.6%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Future Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Hourly flow rate (vph)	0	0	0	0	0	0	0	0	0	0	0	0

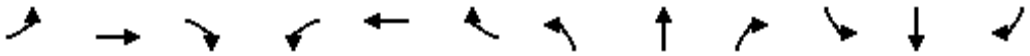
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	0	0	0	0
Volume Left (vph)	0	0	0	0
Volume Right (vph)	0	0	0	0
Hadj (s)	0.00	0.00	0.00	0.00
Departure Headway (s)	3.9	3.9	3.9	3.9
Degree Utilization, x	0.00	0.00	0.00	0.00
Capacity (veh/h)	917	917	917	917
Control Delay (s)	6.9	6.9	6.9	6.9
Approach Delay (s)	0.0	0.0	0.0	0.0
Approach LOS	A	A	A	A

Intersection Summary				
Delay	0.0			
Level of Service	A			
Intersection Capacity Utilization	18.6%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	5	1	10	5	91	6	30	21	81	30	10
Future Volume (vph)	9	5	1	10	5	91	6	30	21	81	30	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.989			0.884			0.950			0.989	
Flt Protected		0.971			0.995			0.995			0.968	
Satd. Flow (prot)	0	1658	0	0	1587	0	0	1794	0	0	1711	0
Flt Permitted		0.971			0.995			0.995			0.968	
Satd. Flow (perm)	0	1658	0	0	1587	0	0	1794	0	0	1711	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		228.0			132.1			169.2			216.1	
Travel Time (s)		16.4			9.5			12.2			15.6	
Confl. Peds. (#/hr)	4		3	3		4	1		18	18		1
Peak Hour Factor	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Heavy Vehicles (%)	13%	7%	0%	0%	4%	6%	1%	0%	0%	3%	10%	22%
Adj. Flow (vph)	15	8	2	17	8	152	10	50	35	135	50	17
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	25	0	0	177	0	0	95	0	0	202	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

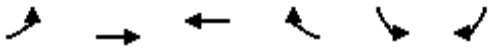
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 27.6%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	9	5	1	10	5	91	6	30	21	81	30	10
Future Volume (vph)	9	5	1	10	5	91	6	30	21	81	30	10
Peak Hour Factor	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Hourly flow rate (vph)	15	8	2	17	8	152	10	50	35	135	50	17

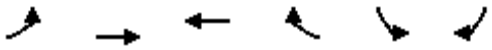
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	25	177	95	202
Volume Left (vph)	15	17	10	135
Volume Right (vph)	2	152	35	17
Hadj (s)	0.24	-0.41	-0.20	0.19
Departure Headway (s)	5.1	4.2	4.4	4.7
Degree Utilization, x	0.04	0.21	0.12	0.26
Capacity (veh/h)	651	791	767	734
Control Delay (s)	8.2	8.3	8.0	9.3
Approach Delay (s)	8.2	8.3	8.0	9.3
Approach LOS	A	A	A	A

Intersection Summary				
Delay	8.7			
Level of Service	A			
Intersection Capacity Utilization	27.6%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	160	1032	963	19	7	96
Future Volume (vph)	160	1032	963	19	7	96
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.997		0.874	
Flt Protected		0.993			0.997	
Satd. Flow (prot)	0	3485	3496	0	1596	0
Flt Permitted		0.993			0.997	
Satd. Flow (perm)	0	3485	3496	0	1596	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		168.4	105.4		179.3	
Travel Time (s)		12.1	7.6		12.9	
Confl. Peds. (#/hr)	40			40	4	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	2%	3%	3%	0%	0%	4%
Adj. Flow (vph)	178	1147	1070	21	8	107
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1325	1091	0	115	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

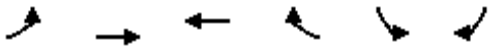
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 76.8%		ICU Level of Service D	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	160	1032	963	19	7	96
Future Volume (Veh/h)	160	1032	963	19	7	96
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	178	1147	1070	21	8	107
Pedestrians			4		40	
Lane Width (m)			3.6		3.6	
Walking Speed (m/s)			1.2		1.2	
Percent Blockage			0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)			105			
pX, platoon unblocked	0.86				0.86	0.86
vC, conflicting volume	1131				2054	586
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	835				1904	203
tC, single (s)	4.1				6.8	7.0
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	73				79	84
cM capacity (veh/h)	663				38	666

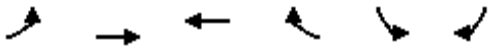
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	560	765	713	378	115
Volume Left	178	0	0	0	8
Volume Right	0	0	0	21	107
cSH	663	1700	1700	1700	308
Volume to Capacity	0.27	0.45	0.42	0.22	0.37
Queue Length 95th (m)	8.7	0.0	0.0	0.0	13.4
Control Delay (s)	6.9	0.0	0.0	0.0	23.5
Lane LOS	A				C
Approach Delay (s)	2.9		0.0		23.5
Approach LOS					C

Intersection Summary			
Average Delay	2.6		
Intersection Capacity Utilization	76.8%	ICU Level of Service	D
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	18	1037	901	34	32	30
Future Volume (vph)	18	1037	901	34	32	30
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.995		0.935	
Flt Protected		0.999			0.975	
Satd. Flow (prot)	0	3498	3424	0	1732	0
Flt Permitted		0.999			0.975	
Satd. Flow (perm)	0	3498	3424	0	1732	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		99.3	147.4		181.8	
Travel Time (s)		7.1	10.6		13.1	
Confl. Peds. (#/hr)	40			40	1	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	8%	3%	4%	29%	0%	0%
Adj. Flow (vph)	19	1080	939	35	33	31
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1099	974	0	64	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	51.7%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	18	1037	901	34	32	30
Future Volume (Veh/h)	18	1037	901	34	32	30
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Hourly flow rate (vph)	19	1080	939	35	33	31
Pedestrians			1		40	
Lane Width (m)			3.6		3.6	
Walking Speed (m/s)			1.2		1.2	
Percent Blockage			0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)		99	148			
pX, platoon unblocked	0.93				0.88	0.93
vC, conflicting volume	1014				1576	527
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	875				1043	354
tC, single (s)	4.3				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.3				3.5	3.3
p0 queue free %	97				82	95
cM capacity (veh/h)	660				188	585

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	379	720	626	348	64
Volume Left	19	0	0	0	33
Volume Right	0	0	0	35	31
cSH	660	1700	1700	1700	280
Volume to Capacity	0.03	0.42	0.37	0.20	0.23
Queue Length 95th (m)	0.7	0.0	0.0	0.0	6.9
Control Delay (s)	0.9	0.0	0.0	0.0	21.6
Lane LOS	A				C
Approach Delay (s)	0.3		0.0		21.6
Approach LOS					C

Intersection Summary			
Average Delay	0.8		
Intersection Capacity Utilization	51.7%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection: 6: Cumberland Drive & Wanita Road

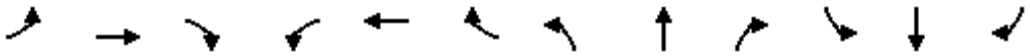
Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	13.3	9.2	10.4	18.9
Average Queue (m)	7.3	4.5	6.3	9.4
95th Queue (m)	13.8	11.7	13.2	16.1
Link Distance (m)	229.0		130.3	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: Wenonah Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	21.8	54.2	36.0	22.3
Average Queue (m)	5.7	21.4	11.4	11.1
95th Queue (m)	20.7	70.0	32.3	17.5
Link Distance (m)		123.7	160.8	193.8
Upstream Blk Time (%)		3		
Queuing Penalty (veh)		0		
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

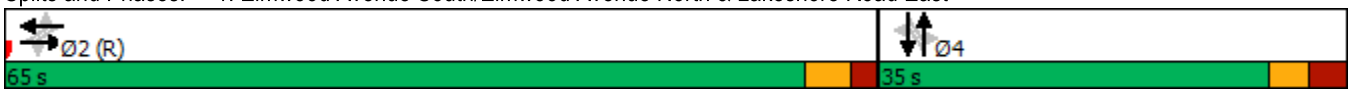


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1095	1	3	1284	0	1	0	1	0	0	0
Future Volume (vph)	0	1095	1	3	1284	0	1	0	1	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.97				
Frt								0.932				
Flt Protected								0.976				
Satd. Flow (prot)	0	3574	0	0	3574	0	0	1717	0	0	1900	0
Flt Permitted					0.953			0.954				
Satd. Flow (perm)	0	3574	0	0	3406	0	0	1645	0	0	1900	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)								27				
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		105.4			99.3			216.2			182.4	
Travel Time (s)		7.6			7.1			15.6			13.1	
Confl. Peds. (#/hr)	58		31	31		58	38		1	1		38
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	0	1141	1	3	1338	0	1	0	1	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1142	0	0	1341	0	0	2	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type		NA		Perm	NA		Perm	NA				
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	27.5	27.5		27.5	27.5		35.0	35.0		35.0	35.0	
Total Split (s)	65.0	65.0		65.0	65.0		35.0	35.0		35.0	35.0	
Total Split (%)	65.0%	65.0%		65.0%	65.0%		35.0%	35.0%		35.0%	35.0%	
Maximum Green (s)	59.5	59.5		59.5	59.5		29.0	29.0		29.0	29.0	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.0	2.0		2.0	2.0		3.0	3.0		3.0	3.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		5.5			5.5			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		Ped	Ped		Ped	Ped	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	12.0	12.0		12.0	12.0		19.0	19.0		19.0	19.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		59.5			59.5			29.0				
Actuated g/C Ratio		0.60			0.60			0.29				
v/c Ratio		0.54			0.66			0.00				
Control Delay		13.2			15.5			0.0				
Queue Delay		0.0			0.0			0.0				
Total Delay		13.2			15.5			0.0				
LOS		B			B			A				
Approach Delay		13.2			15.5							
Approach LOS		B			B							

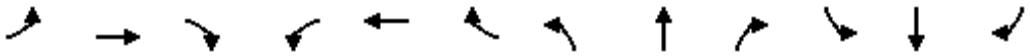
Intersection Summary			
Area Type:	Other		
Cycle Length: 100			
Actuated Cycle Length: 100			
Offset: 64 (64%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 70			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.66			
Intersection Signal Delay: 14.5		Intersection LOS: B	
Intersection Capacity Utilization 71.3%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 1: Elmwood Avenue South/Elmwood Avenue North & Lakeshore Road East



Lane Group	EBT	WBT	NBT
Lane Group Flow (vph)	1142	1341	2
v/c Ratio	0.54	0.66	0.00
Control Delay	13.2	15.5	0.0
Queue Delay	0.0	0.0	0.0
Total Delay	13.2	15.5	0.0
Queue Length 50th (m)	67.7	89.3	0.0
Queue Length 95th (m)	85.3	112.4	0.0
Internal Link Dist (m)	81.4	75.3	192.2
Turn Bay Length (m)			
Base Capacity (vph)	2126	2026	496
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.54	0.66	0.00

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	1095	1	3	1284	0	1	0	1	0	0	0
Future Volume (vph)	0	1095	1	3	1284	0	1	0	1	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5			5.5			6.0				
Lane Util. Factor		0.95			0.95			1.00				
Frpb, ped/bikes		1.00			1.00			0.99				
Flpb, ped/bikes		1.00			1.00			0.98				
Frt		1.00			1.00			0.93				
Flt Protected		1.00			1.00			0.98				
Satd. Flow (prot)		3574			3574			1684				
Flt Permitted		1.00			0.95			0.95				
Satd. Flow (perm)		3574			3407			1645				
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	0	1141	1	3	1338	0	1	0	1	0	0	0
RTOR Reduction (vph)	0	0	0	0	0	0	0	1	0	0	0	0
Lane Group Flow (vph)	0	1142	0	0	1341	0	0	1	0	0	0	0
Confl. Peds. (#/hr)	58		31	31		58	38		1	1		38
Heavy Vehicles (%)	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
Turn Type		NA		Perm	NA		Perm	NA				
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)		59.5			59.5			29.0				
Effective Green, g (s)		59.5			59.5			29.0				
Actuated g/C Ratio		0.60			0.60			0.29				
Clearance Time (s)		5.5			5.5			6.0				
Vehicle Extension (s)		3.0			3.0			3.0				
Lane Grp Cap (vph)		2126			2027			477				
v/s Ratio Prot		0.32										
v/s Ratio Perm					c0.39			c0.00				
v/c Ratio		0.54			0.66			0.00				
Uniform Delay, d1		12.1			13.5			25.2				
Progression Factor		1.00			1.00			1.00				
Incremental Delay, d2		1.0			1.7			0.0				
Delay (s)		13.0			15.2			25.2				
Level of Service		B			B			C				
Approach Delay (s)		13.0			15.2			25.2			0.0	
Approach LOS		B			B			C			A	

Intersection Summary			
HCM 2000 Control Delay	14.2	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.45		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	11.5
Intersection Capacity Utilization	71.3%	ICU Level of Service	C
Analysis Period (min)	15		

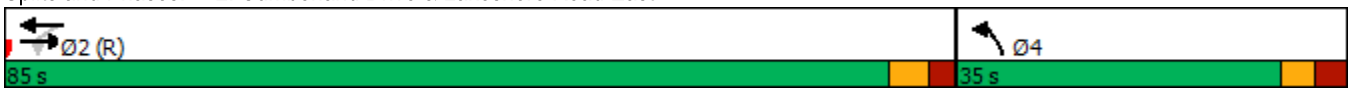
c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1021	61	44	1298	62	38
Future Volume (vph)	1021	61	44	1298	62	38
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)		0.0	10.0		0.0	0.0
Storage Lanes		0	1		1	0
Taper Length (m)			37.0		7.5	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00		0.99		0.98	
Frt	0.991				0.949	
Flt Protected			0.950		0.970	
Satd. Flow (prot)	3531	0	1805	3574	1732	0
Flt Permitted			0.237		0.970	
Satd. Flow (perm)	3531	0	448	3574	1721	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	11				24	
Link Speed (k/h)	50			50	50	
Link Distance (m)	147.4			234.8	216.1	
Travel Time (s)	10.6			16.9	15.6	
Confl. Peds. (#/hr)		15	15		8	11
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	1%	0%	0%	1%	0%	0%
Adj. Flow (vph)	1064	64	46	1352	65	40
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1128	0	46	1352	105	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Number of Detectors	2		1	2	1	
Detector Template	Thru		Left	Thru	Left	
Leading Detector (m)	10.0		2.0	10.0	2.0	
Trailing Detector (m)	0.0		0.0	0.0	0.0	
Detector 1 Position(m)	0.0		0.0	0.0	0.0	
Detector 1 Size(m)	0.6		2.0	0.6	2.0	
Detector 1 Type	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0	0.0	0.0	
Detector 1 Queue (s)	0.0		0.0	0.0	0.0	
Detector 1 Delay (s)	0.0		0.0	0.0	0.0	
Detector 2 Position(m)	9.4			9.4		
Detector 2 Size(m)	0.6			0.6		
Detector 2 Type	Cl+Ex			Cl+Ex		
Detector 2 Channel						
Detector 2 Extend (s)	0.0			0.0		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Detector Phase	2		2	2	4	
Switch Phase						
Minimum Initial (s)	10.0		10.0	10.0	10.0	
Minimum Split (s)	26.0		26.0	26.0	35.0	
Total Split (s)	85.0		85.0	85.0	35.0	
Total Split (%)	70.8%		70.8%	70.8%	29.2%	
Maximum Green (s)	79.0		79.0	79.0	29.0	
Yellow Time (s)	3.5		3.5	3.5	3.0	
All-Red Time (s)	2.5		2.5	2.5	3.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	6.0		6.0	6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Recall Mode	C-Max		C-Max	C-Max	None	
Walk Time (s)	10.0		10.0	10.0	10.0	
Flash Dont Walk (s)	10.0		10.0	10.0	19.0	
Pedestrian Calls (#/hr)	0		0	0	0	
Act Effct Green (s)	96.0		96.0	96.0	12.0	
Actuated g/C Ratio	0.80		0.80	0.80	0.10	
v/c Ratio	0.40		0.13	0.47	0.54	
Control Delay	4.1		1.9	1.6	49.3	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	4.1		1.9	1.7	49.3	
LOS	A		A	A	D	
Approach Delay	4.1			1.7	49.3	
Approach LOS	A			A	D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 120			
Offset: 77 (64%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.54			
Intersection Signal Delay: 4.6		Intersection LOS: A	
Intersection Capacity Utilization 59.8%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Cumberland Drive & Lakeshore Road East



Lane Group	EBT	WBL	WBT	NBL
Lane Group Flow (vph)	1128	46	1352	105
v/c Ratio	0.40	0.13	0.47	0.54
Control Delay	4.1	1.9	1.6	49.3
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	4.1	1.9	1.7	49.3
Queue Length 50th (m)	32.4	0.6	9.6	19.5
Queue Length 95th (m)	51.8	m1.5	12.7	36.7
Internal Link Dist (m)	123.4		210.8	192.1
Turn Bay Length (m)		10.0		
Base Capacity (vph)	2825	358	2857	436
Starvation Cap Reductn	0	0	73	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.40	0.13	0.49	0.24

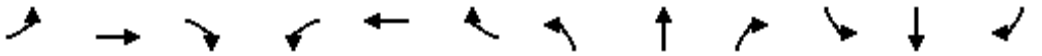
Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1021	61	44	1298	62	38
Future Volume (vph)	1021	61	44	1298	62	38
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0		6.0	6.0	6.0	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	0.99	
Flpb, ped/bikes	1.00		0.99	1.00	1.00	
Frt	0.99		1.00	1.00	0.95	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3533		1791	3574	1731	
Flt Permitted	1.00		0.24	1.00	0.97	
Satd. Flow (perm)	3533		447	3574	1731	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	1064	64	46	1352	65	40
RTOR Reduction (vph)	2	0	0	0	22	0
Lane Group Flow (vph)	1126	0	46	1352	83	0
Confl. Peds. (#/hr)		15	15		8	11
Heavy Vehicles (%)	1%	0%	0%	1%	0%	0%
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			2	4	
Permitted Phases			2			
Actuated Green, G (s)	96.0		96.0	96.0	12.0	
Effective Green, g (s)	96.0		96.0	96.0	12.0	
Actuated g/C Ratio	0.80		0.80	0.80	0.10	
Clearance Time (s)	6.0		6.0	6.0	6.0	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	
Lane Grp Cap (vph)	2826		357	2859	173	
v/s Ratio Prot	0.32			c0.38	c0.05	
v/s Ratio Perm			0.10			
v/c Ratio	0.40		0.13	0.47	0.48	
Uniform Delay, d1	3.5		2.7	3.9	51.1	
Progression Factor	1.00		0.36	0.27	1.00	
Incremental Delay, d2	0.4		0.7	0.5	2.1	
Delay (s)	3.9		1.6	1.6	53.2	
Level of Service	A		A	A	D	
Approach Delay (s)	3.9			1.6	53.2	
Approach LOS	A			A	D	

Intersection Summary			
HCM 2000 Control Delay	4.7	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.47		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	12.0
Intersection Capacity Utilization	59.8%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

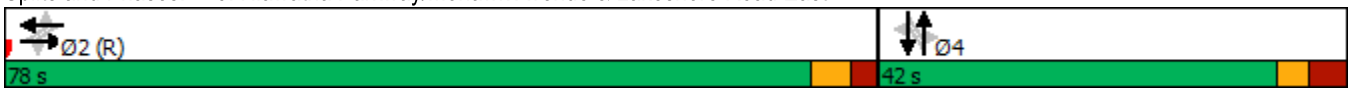


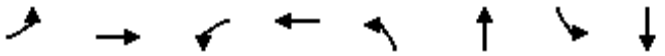
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	1016	3	17	1219	17	7	0	18	107	1	14
Future Volume (vph)	25	1016	3	17	1219	17	7	0	18	107	1	14
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	16.0		0.0	15.0		0.0	30.0		0.0	0.0		0.0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (m)	35.0			31.0			30.0			15.0		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	1.00	1.00		0.99	1.00		0.99	0.97		0.98	0.98	
Frt					0.998			0.850			0.859	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1805	3574	0	1736	3529	0	1805	1571	0	1805	1600	0
Flt Permitted	0.186			0.247			0.747			0.745		
Satd. Flow (perm)	352	3574	0	449	3529	0	1407	1571	0	1394	1600	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)					2			96			15	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		234.8			228.8			216.1			35.6	
Travel Time (s)		16.9			16.5			15.6			2.6	
Confl. Peds. (#/hr)	23		15	15		23	8		14	14		8
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	0%	1%	0%	4%	2%	0%	0%	33%	0%	0%	0%	0%
Adj. Flow (vph)	26	1069	3	18	1283	18	7	0	19	113	1	15
Shared Lane Traffic (%)												
Lane Group Flow (vph)	26	1072	0	18	1301	0	7	19	0	113	16	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.6			3.6			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0		2.0	10.0		2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6		2.0	0.6		2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(m)		9.4			9.4			9.4			9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Detector Phase	2	2		2	2		4	4		4	4	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	31.0	31.0		31.0	31.0		38.5	38.5		38.5	38.5	
Total Split (s)	78.0	78.0		78.0	78.0		42.0	42.0		42.0	42.0	
Total Split (%)	65.0%	65.0%		65.0%	65.0%		35.0%	35.0%		35.0%	35.0%	
Maximum Green (s)	72.0	72.0		72.0	72.0		35.5	35.5		35.5	35.5	
Yellow Time (s)	3.5	3.5		3.5	3.5		3.0	3.0		3.0	3.0	
All-Red Time (s)	2.5	2.5		2.5	2.5		3.5	3.5		3.5	3.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Walk Time (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Flash Dont Walk (s)	15.0	15.0		15.0	15.0		22.0	22.0		22.0	22.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	92.1	92.1		92.1	92.1		15.4	15.4		15.4	15.4	
Actuated g/C Ratio	0.77	0.77		0.77	0.77		0.13	0.13		0.13	0.13	
v/c Ratio	0.10	0.39		0.05	0.48		0.04	0.07		0.63	0.07	
Control Delay	5.1	4.7		4.8	6.2		43.1	0.4		64.7	20.3	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	5.1	4.7		4.8	6.2		43.1	0.4		64.7	20.3	
LOS	A	A		A	A		D	A		E	C	
Approach Delay		4.8			6.2			11.9			59.2	
Approach LOS		A			A			B			E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 120			
Offset: 72 (60%), Referenced to phase 2:EBWB and 6:, Start of Green			
Natural Cycle: 75			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.63			
Intersection Signal Delay: 8.3		Intersection LOS: A	
Intersection Capacity Utilization 60.6%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 3: Hiawatha Parkway/Mohawk Avenue & Lakeshore Road East





Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	26	1072	18	1301	7	19	113	16
v/c Ratio	0.10	0.39	0.05	0.48	0.04	0.07	0.63	0.07
Control Delay	5.1	4.7	4.8	6.2	43.1	0.4	64.7	20.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	5.1	4.7	4.8	6.2	43.1	0.4	64.7	20.3
Queue Length 50th (m)	1.3	35.3	0.9	52.0	1.5	0.0	27.0	0.2
Queue Length 95th (m)	4.1	42.1	3.5	82.1	5.9	0.0	44.7	6.7
Internal Link Dist (m)		210.8		204.8		192.1		11.6
Turn Bay Length (m)	16.0		15.0		30.0			
Base Capacity (vph)	270	2743	344	2709	416	532	412	483
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.10	0.39	0.05	0.48	0.02	0.04	0.27	0.03

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	1016	3	17	1219	17	7	0	18	107	1	14
Future Volume (vph)	25	1016	3	17	1219	17	7	0	18	107	1	14
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00		1.00	0.97		1.00	0.98	
Flpb, ped/bikes	0.99	1.00		0.99	1.00		0.99	1.00		0.98	1.00	
Frt	1.00	1.00		1.00	1.00		1.00	0.85		1.00	0.86	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1792	3572		1723	3529		1789	1571		1777	1601	
Flt Permitted	0.19	1.00		0.25	1.00		0.75	1.00		0.75	1.00	
Satd. Flow (perm)	352	3572		449	3529		1407	1571		1394	1601	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	26	1069	3	18	1283	18	7	0	19	113	1	15
RTOR Reduction (vph)	0	0	0	0	0	0	0	17	0	0	13	0
Lane Group Flow (vph)	26	1072	0	18	1301	0	7	2	0	113	3	0
Confl. Peds. (#/hr)	23		15	15		23	8		14	14		8
Heavy Vehicles (%)	0%	1%	0%	4%	2%	0%	0%	33%	0%	0%	0%	0%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Actuated Green, G (s)	92.1	92.1		92.1	92.1		15.4	15.4		15.4	15.4	
Effective Green, g (s)	92.1	92.1		92.1	92.1		15.4	15.4		15.4	15.4	
Actuated g/C Ratio	0.77	0.77		0.77	0.77		0.13	0.13		0.13	0.13	
Clearance Time (s)	6.0	6.0		6.0	6.0		6.5	6.5		6.5	6.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)	270	2741		344	2708		180	201		178	205	
v/s Ratio Prot		0.30			c0.37			0.00			0.00	
v/s Ratio Perm	0.07			0.04			0.00			c0.08		
v/c Ratio	0.10	0.39		0.05	0.48		0.04	0.01		0.63	0.01	
Uniform Delay, d1	3.5	4.6		3.4	5.1		45.8	45.7		49.6	45.7	
Progression Factor	0.94	0.86		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.7	0.4		0.3	0.6		0.1	0.0		7.2	0.0	
Delay (s)	3.9	4.4		3.7	5.7		45.9	45.7		56.8	45.7	
Level of Service	A	A		A	A		D	D		E	D	
Approach Delay (s)		4.4			5.7			45.7			55.5	
Approach LOS		A			A			D			E	

Intersection Summary			
HCM 2000 Control Delay	8.0	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.50		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	12.5
Intersection Capacity Utilization	60.6%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1093	33	91	1288	31	86
Future Volume (vph)	1093	33	91	1288	31	86
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.996				0.901	
Flt Protected				0.997	0.987	
Satd. Flow (prot)	3561	0	0	3531	1690	0
Flt Permitted				0.997	0.987	
Satd. Flow (perm)	3561	0	0	3531	1690	0
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		35	35		9	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	1%	0%	1%	2%	0%	0%
Adj. Flow (vph)	1163	35	97	1370	33	91
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1198	0	0	1467	124	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	86.9%	ICU Level of Service	E
Analysis Period (min)	15		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1093	33	91	1288	31	86
Future Volume (Veh/h)	1093	33	91	1288	31	86
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	1163	35	97	1370	33	91
Pedestrians	9			1	35	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	1			0	3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.90		0.90	0.90
vC, conflicting volume			1233		2104	635
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1035		2003	370
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			83		14	84
cM capacity (veh/h)			588		38	552

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	775	423	554	913	124
Volume Left	0	0	97	0	33
Volume Right	0	35	0	0	91
cSH	1700	1700	588	1700	121
Volume to Capacity	0.46	0.25	0.17	0.54	1.02
Queue Length 95th (m)	0.0	0.0	4.7	0.0	56.0
Control Delay (s)	0.0	0.0	4.5	0.0	157.0
Lane LOS			A		F
Approach Delay (s)	0.0		1.7		157.0
Approach LOS					F

Intersection Summary			
Average Delay	7.9		
Intersection Capacity Utilization	86.9%	ICU Level of Service	E
Analysis Period (min)	15		

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1093	33	91	1288	31	86
Future Volume (vph)	1093	33	91	1288	31	86
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt	0.996					0.850
Flt Protected				0.997	0.950	
Satd. Flow (prot)	3561	0	0	3531	1805	1615
Flt Permitted				0.997	0.950	
Satd. Flow (perm)	3561	0	0	3531	1805	1615
Link Speed (k/h)	50			50	50	
Link Distance (m)	228.8			104.4	216.1	
Travel Time (s)	16.5			7.5	15.6	
Confl. Peds. (#/hr)		35	35		9	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles (%)	1%	0%	1%	2%	0%	0%
Adj. Flow (vph)	1163	35	97	1370	33	91
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1198	0	0	1467	33	91
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	3.6			3.6	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 83.3%		ICU Level of Service E	
Analysis Period (min) 15			

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1093	33	91	1288	31	86
Future Volume (Veh/h)	1093	33	91	1288	31	86
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	1163	35	97	1370	33	91
Pedestrians	9			1	35	
Lane Width (m)	3.6			3.6	3.6	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	1			0	3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	229					
pX, platoon unblocked			0.90		0.90	0.90
vC, conflicting volume			1233		2104	635
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1035		2003	370
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			83		14	84
cM capacity (veh/h)			588		38	552

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	NB 2
Volume Total	775	423	554	913	33	91
Volume Left	0	0	97	0	33	0
Volume Right	0	35	0	0	0	91
cSH	1700	1700	588	1700	38	552
Volume to Capacity	0.46	0.25	0.17	0.54	0.86	0.16
Queue Length 95th (m)	0.0	0.0	4.7	0.0	25.6	4.7
Control Delay (s)	0.0	0.0	4.5	0.0	259.6	12.8
Lane LOS			A		F	B
Approach Delay (s)	0.0		1.7		78.5	
Approach LOS					F	

Intersection Summary			
Average Delay	4.4		
Intersection Capacity Utilization	83.3%	ICU Level of Service	E
Analysis Period (min)	15		

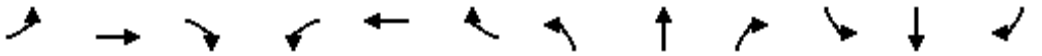
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	7	0	0	2	0	0
Future Volume (vph)	7	0	0	2	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor						
Frt			0.865			
Flt Protected	0.950					
Satd. Flow (prot)	1805	0	1644	0	0	1900
Flt Permitted	0.950					
Satd. Flow (perm)	1805	0	1644	0	0	1900
Link Speed (k/h)	50		50			50
Link Distance (m)	246.0		102.9			216.2
Travel Time (s)	17.7		7.4			15.6
Confl. Peds. (#/hr)	6	29				
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%
Adj. Flow (vph)	12	0	0	4	0	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	12	0	4	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	3.6		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 19.5%		ICU Level of Service A	
Analysis Period (min) 15			

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	7	0	0	2	0	0
Future Volume (Veh/h)	7	0	0	2	0	0
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Hourly flow rate (vph)	12	0	0	4	0	0
Pedestrians			6			29
Lane Width (m)			3.6			3.6
Walking Speed (m/s)			1.2			1.2
Percent Blockage			1			2
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (m)						216
pX, platoon unblocked						
vC, conflicting volume	8	31			4	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	8	31			4	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	100			100	
cM capacity (veh/h)	1013	1024			1631	

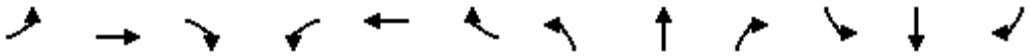
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	12	4	0
Volume Left	12	0	0
Volume Right	0	4	0
cSH	1013	1700	1700
Volume to Capacity	0.01	0.00	0.00
Queue Length 95th (m)	0.3	0.0	0.0
Control Delay (s)	8.6	0.0	0.0
Lane LOS	A		
Approach Delay (s)	8.6	0.0	0.0
Approach LOS	A		

Intersection Summary			
Average Delay	6.4		
Intersection Capacity Utilization	19.5%	ICU Level of Service	A
Analysis Period (min)	15		



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	17	5	24	1	5	27	12	18	7	26	25	19
Future Volume (vph)	17	5	24	1	5	27	12	18	7	26	25	19
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.930			0.890			0.975			0.964	
Flt Protected		0.982			0.999			0.984			0.982	
Satd. Flow (prot)	0	1679	0	0	1689	0	0	1706	0	0	1643	0
Flt Permitted		0.982			0.999			0.984			0.982	
Satd. Flow (perm)	0	1679	0	0	1689	0	0	1706	0	0	1643	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		246.0			233.0			138.8			216.1	
Travel Time (s)		17.7			16.8			10.0			15.6	
Confl. Peds. (#/hr)	22		1	1		22	22		1	1		22
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles (%)	9%	0%	0%	0%	0%	0%	0%	14%	0%	13%	13%	0%
Adj. Flow (vph)	23	7	32	1	7	36	16	24	9	35	33	25
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	62	0	0	44	0	0	49	0	0	93	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

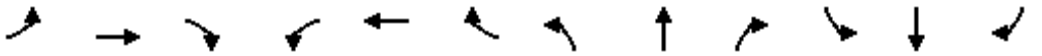
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 26.0%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	17	5	24	1	5	27	12	18	7	26	25	19
Future Volume (vph)	17	5	24	1	5	27	12	18	7	26	25	19
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Hourly flow rate (vph)	23	7	32	1	7	36	16	24	9	35	33	25

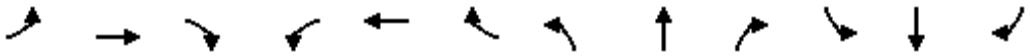
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	62	44	49	93
Volume Left (vph)	23	1	16	35
Volume Right (vph)	32	36	9	25
Hadj (s)	-0.18	-0.49	0.07	0.08
Departure Headway (s)	4.1	3.8	4.3	4.2
Degree Utilization, x	0.07	0.05	0.06	0.11
Capacity (veh/h)	847	907	807	823
Control Delay (s)	7.4	7.0	7.6	7.8
Approach Delay (s)	7.4	7.0	7.6	7.8
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.5			
Level of Service	A			
Intersection Capacity Utilization	26.0%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Future Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt												
Flt Protected												
Satd. Flow (prot)	0	1900	0	0	1900	0	0	1900	0	0	1776	0
Flt Permitted												
Satd. Flow (perm)	0	1900	0	0	1900	0	0	1900	0	0	1776	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		233.0			228.0			131.6			216.1	
Travel Time (s)		16.8			16.4			9.5			15.6	
Confl. Peds. (#/hr)	6		1	1		6	9		3	3		9
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Heavy Vehicles (%)	50%	0%	0%	0%	0%	0%	0%	0%	0%	29%	7%	0%
Adj. Flow (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			3.6			3.6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

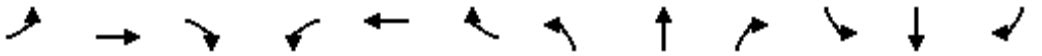
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	17.7%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Future Volume (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Hourly flow rate (vph)	0	0	0	0	0	0	0	0	0	0	0	0

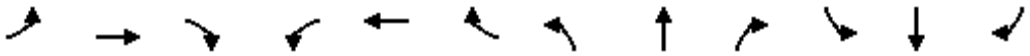
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	0	0	0	0
Volume Left (vph)	0	0	0	0
Volume Right (vph)	0	0	0	0
Hadj (s)	0.00	0.00	0.00	0.00
Departure Headway (s)	3.9	3.9	3.9	3.9
Degree Utilization, x	0.00	0.00	0.00	0.00
Capacity (veh/h)	917	917	917	917
Control Delay (s)	6.9	6.9	6.9	6.9
Approach Delay (s)	0.0	0.0	0.0	0.0
Approach LOS	A	A	A	A

Intersection Summary				
Delay	0.0			
Level of Service	A			
Intersection Capacity Utilization	17.7%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	12	5	1	15	5	62	1	37	18	44	50	10
Future Volume (vph)	12	5	1	15	5	62	1	37	18	44	50	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor												
Frt		0.995			0.897			0.956			0.987	
Flt Protected		0.967			0.991			0.999			0.979	
Satd. Flow (prot)	0	1629	0	0	1689	0	0	1768	0	0	1836	0
Flt Permitted		0.967			0.991			0.999			0.979	
Satd. Flow (perm)	0	1629	0	0	1689	0	0	1768	0	0	1836	0
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		228.0			132.1			169.2			216.1	
Travel Time (s)		16.4			9.5			12.2			15.6	
Confl. Peds. (#/hr)	5		2	2		5			11	11		
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Heavy Vehicles (%)	18%	0%	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%
Adj. Flow (vph)	17	7	1	21	7	89	1	53	26	63	71	14
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	25	0	0	117	0	0	80	0	0	148	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		0.0			0.0			0.0			0.0	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			4.8			4.8			4.8	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Sign Control		Stop			Stop			Stop			Stop	

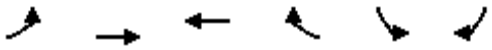
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 25.5%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	12	5	1	15	5	62	1	37	18	44	50	10
Future Volume (vph)	12	5	1	15	5	62	1	37	18	44	50	10
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Hourly flow rate (vph)	17	7	1	21	7	89	1	53	26	63	71	14

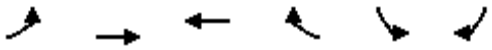
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	25	117	80	148
Volume Left (vph)	17	21	1	63
Volume Right (vph)	1	89	26	14
Hadj (s)	0.32	-0.42	-0.15	0.03
Departure Headway (s)	4.9	4.0	4.2	4.3
Degree Utilization, x	0.03	0.13	0.09	0.18
Capacity (veh/h)	689	837	811	793
Control Delay (s)	8.0	7.6	7.7	8.3
Approach Delay (s)	8.0	7.6	7.7	8.3
Approach LOS	A	A	A	A

Intersection Summary				
Delay	7.9			
Level of Service	A			
Intersection Capacity Utilization	25.5%	ICU Level of Service	A	
Analysis Period (min)	15			



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	45	1074	1204	24	6	56
Future Volume (vph)	45	1074	1204	24	6	56
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.997		0.877	
Flt Protected		0.998			0.995	
Satd. Flow (prot)	0	3529	3564	0	1658	0
Flt Permitted		0.998			0.995	
Satd. Flow (perm)	0	3529	3564	0	1658	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		168.4	105.4		179.3	
Travel Time (s)		12.1	7.6		12.9	
Confl. Peds. (#/hr)	34			34	4	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	4%	2%	1%	0%	0%	0%
Adj. Flow (vph)	47	1131	1267	25	6	59
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1178	1292	0	65	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	100			100	100	100
Sign Control		Free	Free		Stop	

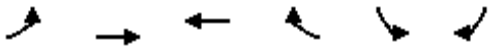
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 73.6%		ICU Level of Service D	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	45	1074	1204	24	6	56
Future Volume (Veh/h)	45	1074	1204	24	6	56
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	47	1131	1267	25	6	59
Pedestrians		1	4		34	
Lane Width (m)		3.6	3.6		3.6	
Walking Speed (m/s)		1.2	1.2		1.2	
Percent Blockage		0	0		3	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)			105			
pX, platoon unblocked	0.75				0.75	0.75
vC, conflicting volume	1326				1977	681
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	771				1638	0
tC, single (s)	4.2				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	92				90	93
cM capacity (veh/h)	603				63	795

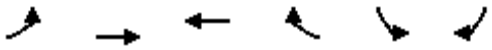
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	424	754	845	447	65
Volume Left	47	0	0	0	6
Volume Right	0	0	0	25	59
cSH	603	1700	1700	1700	382
Volume to Capacity	0.08	0.44	0.50	0.26	0.17
Queue Length 95th (m)	2.0	0.0	0.0	0.0	4.8
Control Delay (s)	2.3	0.0	0.0	0.0	16.3
Lane LOS	A				C
Approach Delay (s)	0.8		0.0		16.3
Approach LOS					C

Intersection Summary			
Average Delay	0.8		
Intersection Capacity Utilization	73.6%	ICU Level of Service	D
Analysis Period (min)	15		



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (vph)	27	1023	1142	64	17	38
Future Volume (vph)	27	1023	1142	64	17	38
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Ped Bike Factor						
Frt			0.992		0.906	
Flt Protected		0.999			0.985	
Satd. Flow (prot)	0	3537	3581	0	1661	0
Flt Permitted		0.999			0.985	
Satd. Flow (perm)	0	3537	3581	0	1661	0
Link Speed (k/h)		50	50		50	
Link Distance (m)		99.3	147.4		181.8	
Travel Time (s)		7.1	10.6		13.1	
Confl. Peds. (#/hr)	25			25	2	4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	2%	0%	0%	0%	3%
Adj. Flow (vph)	29	1112	1241	70	18	41
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1141	1311	0	59	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	100			100	100	100
Sign Control		Free	Free		Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 59.1%		ICU Level of Service B	
Analysis Period (min) 15			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	27	1023	1142	64	17	38
Future Volume (Veh/h)	27	1023	1142	64	17	38
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	29	1112	1241	70	18	41
Pedestrians		4	2		25	
Lane Width (m)		3.6	3.6		3.6	
Walking Speed (m/s)		1.2	1.2		1.2	
Percent Blockage		0	0		2	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)		99	148			
pX, platoon unblocked	0.88				0.87	0.88
vC, conflicting volume	1336				1917	684
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1102				1109	359
tC, single (s)	4.1				6.8	7.0
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	95				89	92
cM capacity (veh/h)	550				166	543

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	SB 1
Volume Total	400	741	827	484	59
Volume Left	29	0	0	0	18
Volume Right	0	0	0	70	41
cSH	550	1700	1700	1700	321
Volume to Capacity	0.05	0.44	0.49	0.28	0.18
Queue Length 95th (m)	1.3	0.0	0.0	0.0	5.3
Control Delay (s)	1.6	0.0	0.0	0.0	18.7
Lane LOS	A				C
Approach Delay (s)	0.6		0.0		18.7
Approach LOS					C

Intersection Summary			
Average Delay	0.7		
Intersection Capacity Utilization	59.1%	ICU Level of Service	B
Analysis Period (min)	15		

Intersection: 6: Cumberland Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	16.5	10.6	18.4	19.8
Average Queue (m)	7.9	6.5	7.6	9.9
95th Queue (m)	14.3	13.1	15.8	17.0
Link Distance (m)	229.0		130.3	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: Wenonah Drive & Wanita Road

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (m)	15.0	15.1	16.1	14.9
Average Queue (m)	5.5	8.7	8.4	9.4
95th Queue (m)	14.1	14.1	14.3	13.5
Link Distance (m)		123.7	160.8	193.8
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (m)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

2H

Region of Peel

APPENDIX 2H

ODOUR AND NOISE MITIGATION REVIEW TECHNICAL MEMO

Date:	3/3/2023	File:	719033
From:	Laura Verhaeghe, P.Eng.		
Project:	Port Credit East Water and Wastewater Servicing Optimization Strategy, Sch. 'C' Class EA		
Subject:	Odour and Noise Mitigation Review for Rosemere SPS		

TECHNICAL MEMO

1. Introduction

As part of the Class EA for the Port Credit East Water and Wastewater Servicing Optimization Strategy, GM BluePlan has prepared this Technical Memorandum (TM) to review potential odour and noise impacts and the associated mitigation measures related to the recommended infrastructure projects. This memo will be included in the Project File and should be read in conjunction with the findings and recommendations of the Class EA Study.

Specifically, this TM evaluates potential for odour and noise impacts associated with the construction and operation of a new Rosemere Sewage Pumping Station (SPS) and to recommend potential mitigative actions, define next steps and outline further commitments to be incorporated during detailed design. The other proposed projects under this Class EA, the Lakeshore Watermain and new sewers associated with Elmwood and Hiawatha have no or negligible potential for odour generation and are excluded from this analysis. Noise impacts for Lakeshore Watermain and Elmwood/Hiawatha sewers are limited to construction noise, and comparable abatement strategies should be used for construction noise as discussed in Section 4 of this TM.

2. Background

The existing Rosemere SPS is located at 182 Rosemere Road in Mississauga and services a residential catchment. The station is rated for 25 L/s with two pumps in a duty/stand-by configuration, and is classified as a Type II station based on flow. Rosemere SPS is aging and does not meet current design standards; as such, the SPS requires replacement. Twin 200mm diameter forcemains along a new alignment discharging on Vesta Drive are also proposed.

The pumping station is located adjacent to a residential neighborhood, with sensitive receptors for odour and noise. Although there is no odour control system currently in the place, the Region of Peel is unaware of any odour complaints connected to the pumping station. Regardless, there exists the potential for odour generation at the site and at the new gravity outfall maintenance hole for the proposed forcemains, also considering the new station will be designed for a larger rated capacity of 34 L/s. Noise during current operation is not a known concern; however, noise during construction needs to be considered, and the new station should be designed to mitigate any new sources of noise.

3. Odour Assessment

Odour Sources

The primary odorant present in wastewater collection systems is hydrogen sulfide (H_2S), generated in the liquid phase under anaerobic conditions and subsequently released to the sewer or wetwell headspace as an odourous gas. There is the potential for odour generation in the proposed wastewater pumping station and forcemain discharge.

Table 1 summarizes the anticipated sources of odour generation for this project.

Table 1: Potential Odour Sources Associated with Proposed Rosemere SPS and Forcemain

Location	Method of Odour Release	Estimated Gaseous H_2S Concentration	Potential Sensitive Receptors	Estimated Distance to Closest Sensitive Receptor
1. Rosemere SPS	Odorous gas can be released from the wet well headspace, particularly when wet well is filling, as air becomes pressurized.	5-15 ppm in wet well headspace	Residential properties on Rosemere Road across from SPS	25m
2. Gravity outfall of proposed twin forcemains on Vesta Dr at Proposed 2400mm dia. Sanitary MH4A	Turbulence is created by sudden change in velocity and/or elevation change (ex. Drop structure), releasing odourous gas into the sewer headspace that may escape into the environment as fugitive emissions.	<5ppm in gravity sewer headspace	Residential properties on Vesta Dr. and GO Transit parking lot	10m

The hydrogen sulfide concentrations listed in the table above are based on typical values for similar applications and should be verified via field testing of existing station hydrogen sulfide concentrations in the wet well headspace during the early stages of detailed design. This will allow for more accurate sizing of abatement equipment at the pump station site, if required.

The conceptual forcemain design has a profile that is continuously rising in elevation from the SPS to the gravity discharge on Vespa Road. As such, this profile does not contain any high points in the middle of the forcemain where air could accumulate, and removes the needs for air valves along the forcemain. As result, the only two discharge points for odour that will be considered in this assessment are the wet well and the forcemain gravity discharges. Although odour may possibly be generated in the downstream sewer, the scope of this review is limited to the proposed works. It should be noted that due to higher projected flows through the forcemain, the residence time in the downstream sewer will be reduced during peak flows, which may reduce odours generated downstream, as anaerobic conditions are less likely to form.

Odour Mitigation

The general odour mitigation strategy should include the following:

- Target odours at their source;
- Keep H_2S in the liquid phase (reduce the amount of odorous gas that enters the sewer headspace);
- Keep odorous gas in the pipe (prevent odorous gas that enters the headspace of the pipe from exiting the sewer system); and
- Provide a controlled odourous gas release point complete with adequate ventilation and treatment.

The Region of Peel has provisions for odour mitigation and control in their Sewer Pumping Station Design Standards, which was updated in 2021. The proposed Rosemere SPS design shall incorporate the new SPS Design standards as well as the Region's linear standards where applicable. Specifically, the following elements related to odour control should be incorporated to meet current standards:

1. The design should always endeavour to reduce the potential for odour generation. This can include preventing anaerobic conditions from developing, and sizing pumps to ensure enough cycling frequency to prevent stagnant conditions. Standard drawing SPS-110 incorporates forced air ventilation of wet wells for Type III and IV stations. Although the station is a Type II, forced air ventilation should still be considered to prevent build-up of H_2S in the wet well headspace, and increase aerobic conditions, pending the results of the odour study, described below.

2. An odour study shall be conducted for any new station being constructed within 50 m of a sensitive receptor, which is the case for the proposed Rosemere SPS. The odour study shall be based on empirical data collected from the wet well where possible and include dispersion modelling to determine impacts, at a minimum. Empiral data can be collected from the existing Rosemere SPS to get representative data to be used for design of the new SPS. As part of the odour study, an Odour Screening Report shall be completed in accordance with O.Reg 1/17 to determine the need for further odour assessment that could potentially include a Best Management Practices Plan (BMPP) for Odour and an Odour Control Report.

3. The station should be designed to accommodate future odour control equipment, pending the results of the odour study. Odour control equipment may include a biofilter, biotrickling filter, activated carbon or a combination of these technologies, depending on the odorant concentrations determined during the odour study. Based on the limited space available at Rosemere SPS, activated carbon or a biotrickling filter are likely more practical due to their smaller footprint. Biotrickling filter technology is a permanent technology using microorganisms to biochemically oxidize the H_2S and can effectively treat elevated levels of hydrogen sulfide from 5 to >200ppm. The primary operational cost is the supply of make-up water to control the pH. Activated carbon uses adsorption to physically remove the H_2S from the airstream and requires regular replacement of the carbon media. This technology does not require a water supply and is generally most cost effective when H_2S concentrations are low, reducing carbon change-out frequency. Both biotrickling filtration and activated carbon technology can easily achieve >99% removal of hydrogen sulfide, which is the primarily odorant present in most collection systems. It is also possible to combine the technologies in series using the biotrickling filter as a treatment stage, followed by a polishing activated carbon stage to achieve even greater performance, as determined necessary by proposed dispersion modeling during detailed design.

4. The gravity outfall maintenance hole (MH) should be designed per Region Standard Drawing SPS-118 with a transition flow chamber to minimize turbulence at this point. A corrosion resistant coating shall be used on all concrete surfaces to reduce corrosion impacts of hydrogen sulfide. Per Region Standard Drawing 2-5-22, a vent pipe with inline odour control is proposed coming off the gravity outfall MH. A passive, inline carbon would likely be suitable.

Potential odour mitigation actions described above are summarized in **Figure 1**. The final odour mitigation strategy may include some or all of the actions shown in the figure, as determined necessary based on future field studies and dispersion modeling.

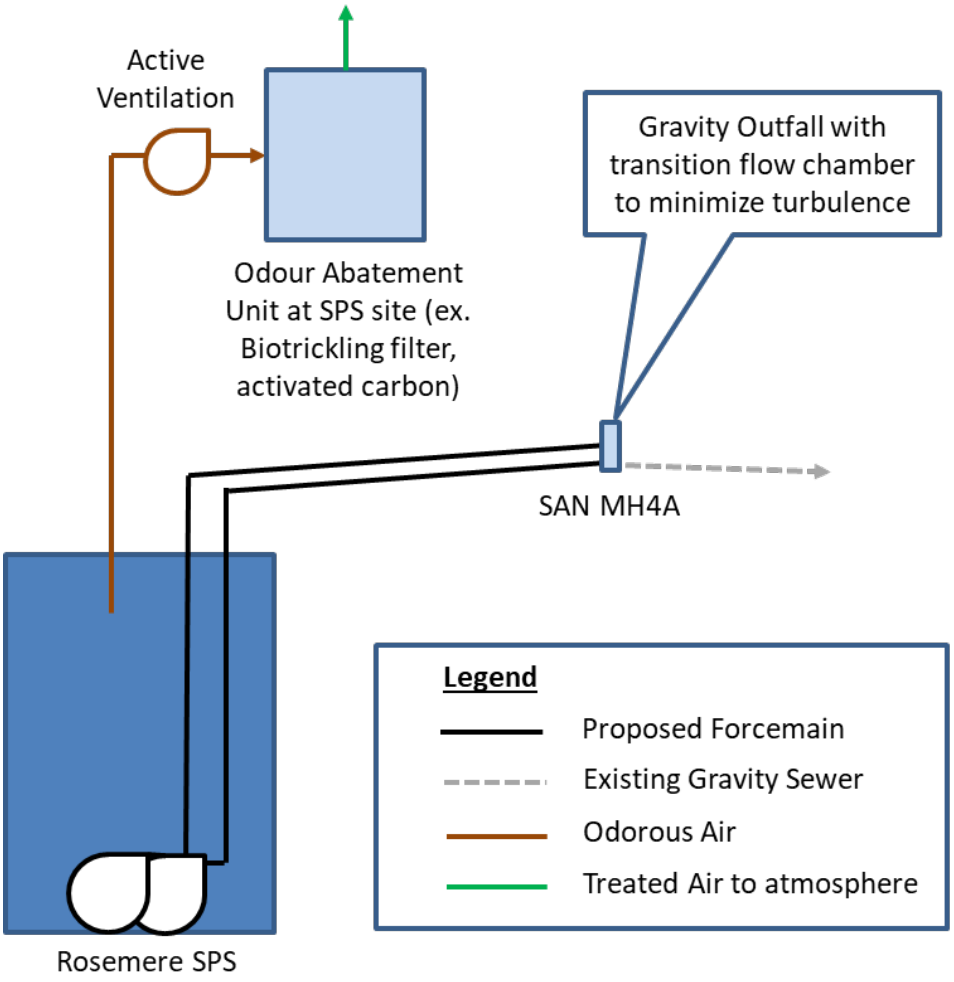


Figure 1: Potential Odour Mitigation Strategy

4. Noise Assessment and Mitigation

Noise impacts during both construction of the SPS and forcemains, as well as during SPS operation should be considered. Environment Noise Guideline (NPC-300) applies to stationary sources of noise and provides a guideline for sound limits during operation of the station, excluding noise generated during construction. Sounds limits in NPC-300 should be considered based on the noise sensitivity of the site. The City of Mississauga Noise By-Law would also apply, and will need to be considered for both construction and long-term operation unless an exemption is granted. Expected sources of noise and potential mitigation measures are summarized in the table below:

Table 2: Potential Sources of Noise During Construction and Operation of Rosemere SPS

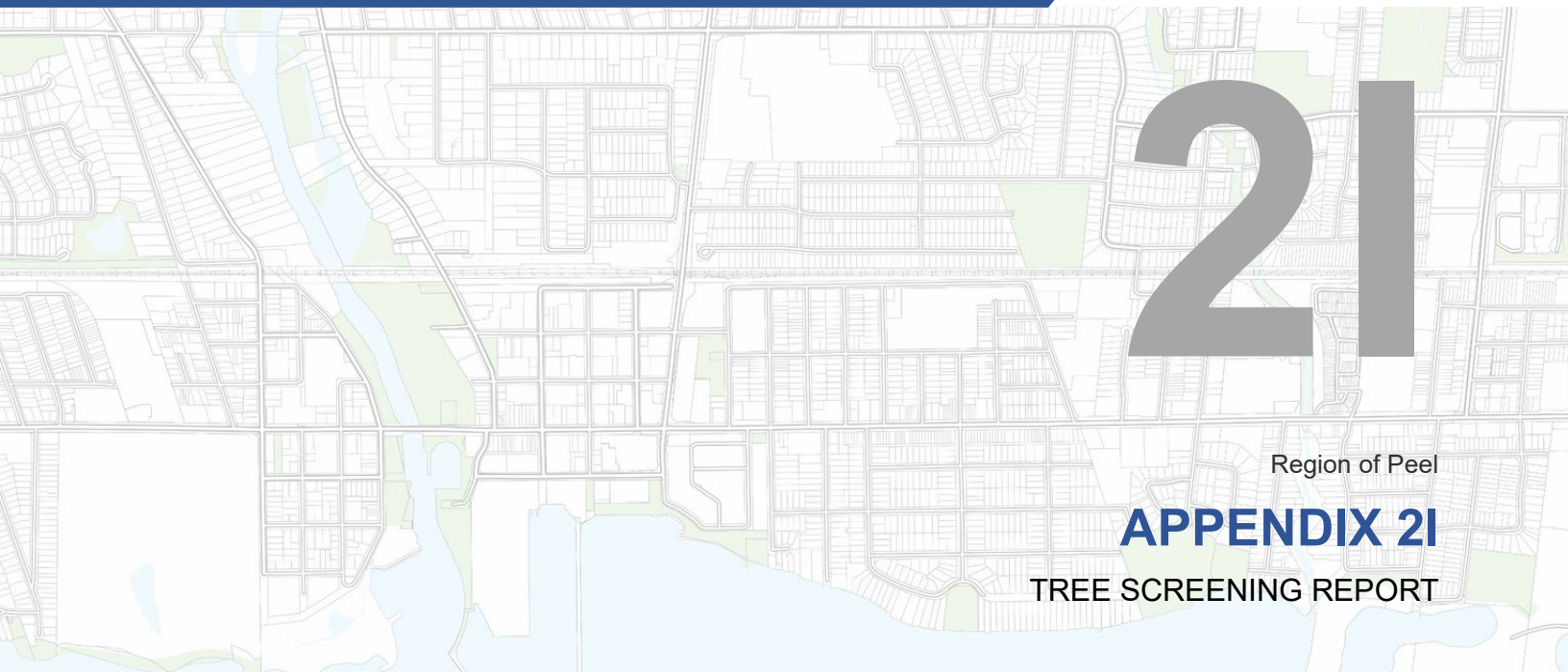
Noise Source	Duration	Impact Level (without mitigation)	Potential Mitigation Measures
1. Construction Noise Sources (ie. excavation, tunnelling, temporary generators)	Short-term	Moderate – High	Stipulate stricter working hours in construction contract to minimize disruptions to residents (ie. 8am – 6pm only); notify residents during times of higher noise level (ie. compaction, shoring installation etc.)
2. Permanent Stand-by Generator (testing and under power failure/emergency condition)	On-going	Moderate	Specify generator with lower decibel rating. Locate generator indoors. Install combustion air dampers facing away from residents to reduce impacts while generator is running.
3. Pump operation	On-going	Low	Minimal to no impacts expected. Pumps will be below grade, enclosed in wet well.

If an ECA amendment is required for station upgrades based on the outcome of the odour study described above, a noise screening shall be completed to fulfill the requirements of the Air and Noise ECA approval submission. Based on the limited sources of noise that will be permanently in place at the proposed Rosemere SPS, an acoustic assessment is not anticipated to be required.

5. Summary

Overall, by incorporating odour reduction, containment and treatment strategies, the proposed Rosemere SPS and forcemains will be designed to meet Region Standards and provincial regulatory requirements. The need for odour abatement will be determined based on the outcome of the odour study in conjunction with modeling to achieve the required odour mitigation.

Similarly, the new station will be designed to reduce noise impacts to sensitive receptors by locating the proposed standby generator indoors and specifying a lower decibel unit as required to adhere to NPC-300 Guidelines and the local noise by-law. Construction hours may be limited to adhere to the noise by-law.



2I

Region of Peel

APPENDIX 2I

TREE SCREENING REPORT

Region of Peel
working with you

Port Credit East Water and Wastewater Servicing Optimization Strategy Schedule C Municipal Class Environmental Assessment

Rosemere Sewage Pumping Station and Area Tree Screening Report

December 2022

Royal Centre, 3300 Highway No. 7 (Suite 402)
Vaughan, ON, L4K 4M3
P: 416 703 0667

GM BluePlan ENGINEERING
GUELPH | OWEN SOUND | LISTOWEL | KITCHENER | LONDON | HAMILTON | GTA
www.GMBluePlan.ca

1.0 Introduction 1
1.1 Proposed Project Works 2
1.2 Methodology 4
2.0 Assessment Results 6
2.1 Existing Site Description 6
2.2 Impacts of the Proposed Project Works 6
2.3 Protection and Preservation Procedures 7
2.4 Compensation Requirements 7
3.0 Summary of Recommendations 9
4.0 Limitations of Assessment 9

List of Tables

Table 1: Tree Survey Characteristics and Parameters 4
Table 2: Public Tree Replacement Guide 7

List of Figures

Figure 1: Existing Rosemere SPS Schematic 2
Figure 3: Proposed Rosemere SPS Schematic 3
Figure 4: Tree Survey 5
Figure 4: Tree Protection Zone 8

List of Appendices

Appendix A Detailed Tree Inventory
Appendix B Site Photos

1.0 Introduction

GM BluePlan Engineering Limited (GM BluePlan) was retained by the Region of Peel (Region) to conduct a Schedule 'C' Municipal Class Environmental Assessment for the Port Credit East Water and Wastewater Servicing Optimization Strategy to meet existing and future growth within the Port Credit East study area. There are four components identified for this project:

1. New Deep Trunk Sewer on Lakeshore Road,
2. New Sub-Transmission Watermain on Lakeshore Road,
3. New Rosemere Sewage Pumping Station (SPS) and associated Twinned Forcemains, and
4. Decommissioning of Elmwood and Hiawatha SPS and associated Gravity Sewers.

As part of this study, a Tree Screening Report were completed for the Rosemere SPS component. The purpose of this report is to document trees at the existing Rosemere SPS location, verify its location, condition, and other relevant data necessary in order to develop appropriate mitigation measures.

The inventoried trees within the site were assessed based on their health and condition at the time of survey. The extent of the inventory was based on the site plans at the time of the assessment. Tree management recommendations are provided based on municipal standards outlined within the *City of Mississauga's Tree Preservation & Protection Standards*[1].

Rosemere SPS is located at 182 Rosemere Road in Mississauga. Rosemere SPS is owned and operated by the Region of Peel. There are three private residential houses to the northwest of the SPS, and one private residential home on Stavebank Road situated on a L-shaped property, where the back of property is adjacent to Rosemere SPS. **Figure 1** shows a schematic depicting the location of the existing SPS and general layout.

[1] City of Mississauga. 2017. Tree Preservation & Protection Standards. https://www.mississauga.ca/publication/tree-preservation-and-protection-standards/

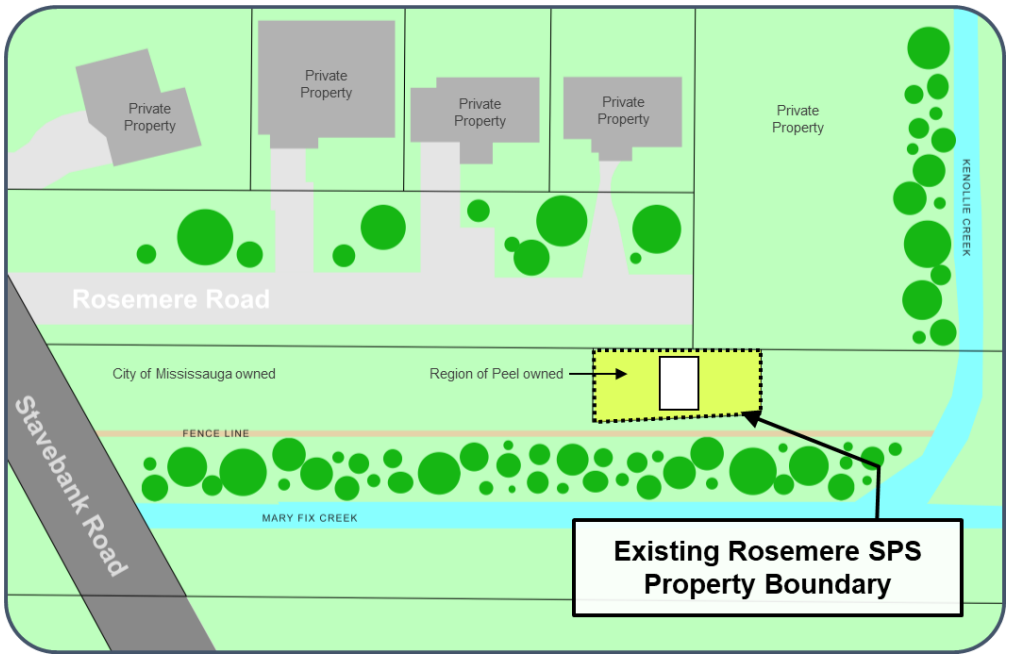


Figure 1: Existing Rosemere SPS Schematic

The work plan for this report includes the following:

- Preparation of an inventory of tree resources, including diameter at breast height (DBH) within the accessible space along Rosemere Road, from Stavebank Road to the end of the road, where the existing SPS is located,
- Evaluation of the potential for preserving trees based on the proposed project works, and,
- Documentation of the findings within this report.

1.1 Proposed Project Works

The proposed works at Rosemere SPS include the decommissioning of the existing SPS in preparation for the construction of a new SPS and twinned forcemains. The new SPS will be located slightly west of the existing station, on the south side of Rosemere Road. Above and below ground works are noted in **Figure 2.** The proposed staging area noted in the figure will be required for laydown and equipment storage during the duration of the construction which will require tree removal and/or tree protection.

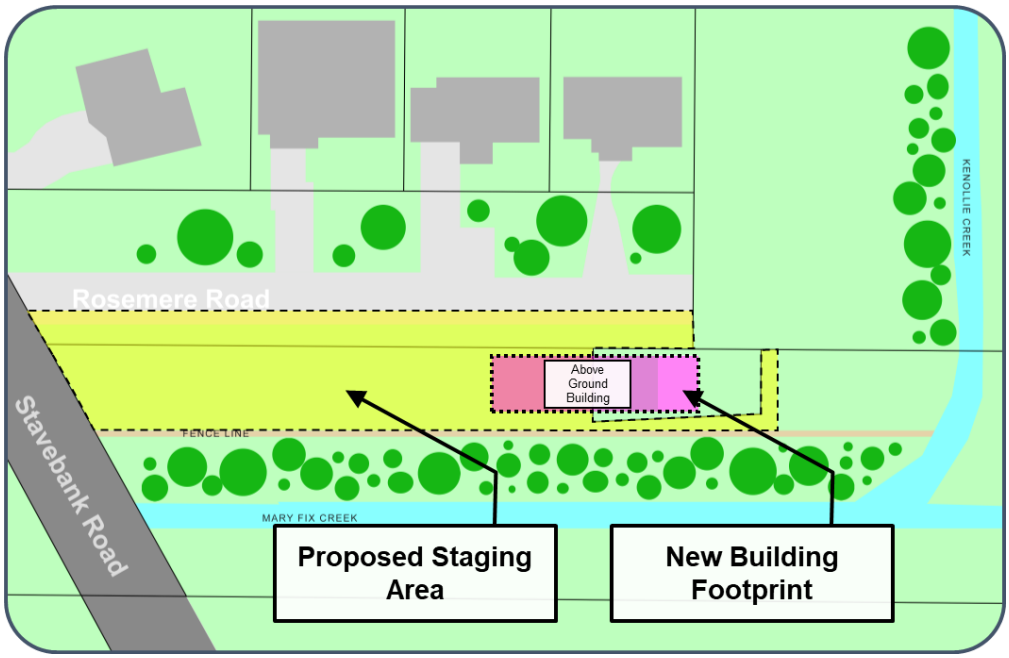


Figure 2: Proposed Rosemere SPS Schematic

1.2 Methodology

An ISA Certified Arborist conducted surveys on December 2, 2022 and January 18, 2023. The inventoried area took place along Rosemere Road from Stavebank Road within the proposed staging area as depicted in **Figure 2**. Data was collected using ArcGIS Survey123 on a handheld device, allowing for infield data collection while minimizing data transference risk and allowing for location data to be captured. Tree locations are shown in **Figure 3**. Trees were tagged and characteristics were logged following the parameters listed in **Table 1** below.

Table 1: Tree Survey Characteristics and Parameters

Parameter	Description
Tree Tag ID	Unique identifier assigned to the tree.
Location	Collected as coordinates in UTM, using the Trimble Geo7x, as captured in field.
Species ID	Common and scientific notation provided.
Diameter at Breast Height (DBH)	Measurement taken in centimeters at 1.4m from the ground.
Estimated Crown Size (Drip Line)	Field measurement of the drip line.
Tree Health	Relating to vigour, and visible presence of pests or disease, condition ratings include Good, Fair, Poor, and Dead.
Tree Structure	Relating to trunk integrity and crown structure, condition ratings include Good, Fair, Poor, and Dead.
Overall Condition	Estimation of the whole tree's condition using information from tree health, and tree structure, condition ratings include Good, Fair, Poor, and Dead.
Comments	Additional relevant detail, including loss or breakage of limbs, habitat information, invasive species presence, etc.
Preservation Comments	As it relates to the care for the specific tree prior to consideration of construction.

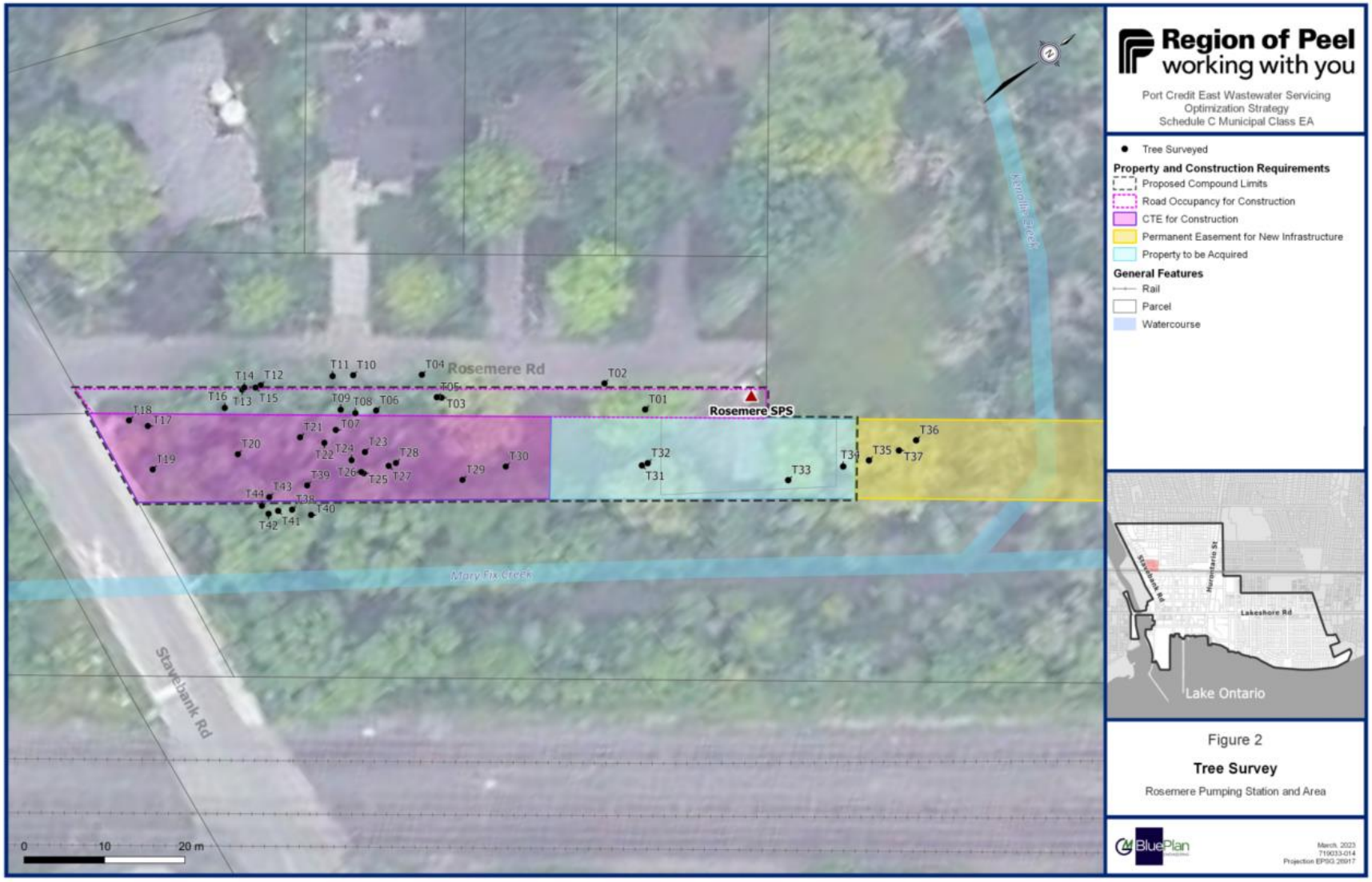


Figure 3: Tree Survey

2.0 Assessment Results

2.1 Existing Site Description

Rosemere SPS is located at 182 Rosemere Road in Mississauga and is owned and operated by the Region of Peel. There are three private residential houses to the northwest of the SPS, and one private residential home on Stavebank Road situated on a L-shaped property, where the back of the lot is adjacent to Rosemere SPS (**Figure 1**).

As noted in the project's Natural Environment Report (WSP, 2023), this site is characterized by Kennollie Creek to the east, and Mary Fix Creek to the south. Both creeks are straightened concrete channels with a steep, riparian area. Additionally, a *Site Preparation and Demolition Plan* for the proposed update to the Rosemere SPS (previously conducted by Cole Engineering Group in 2020), noted that this is a managed greenspace with maintained trees.

Canopy trees present are predominantly non-native species, such as Norway Maple (*Acer platanoides*), Black Locust (*Robinia pseudoacacia*), Weeping Willow (*Salix babylonica*) and Manitoba Maple (*Acer negundo*), as well as native species such as Green Ash (*Fraxinus pennsylvanica*), Black Walnut (*Juglans nigra*), Sugar Maple (*Acer saccharum*), Sassafras (*Sassafras albidum*) and Basswood (*Tilia americana*). There is a deciduous forest in the northern portion of the study area that appears to have an abundance of dead Ash (*Fraxinus sp.*) trees.

2.2 Impacts of the Proposed Project Works

A total of 44 trees that were accessible to the Arborist within the proposed construction staging area were logged. **Figure 3** depicts the location of trees. The full tree inventory detail can be found in **Appendix A**. Site photos can be found in **Appendix B**.

Tree resources breakdown at this location include:

- 47.7% Black Locust (*Robinia pseudoarcacia*),
- 11.4% Basswood (*Tilia americana*),
- 6.8% Willow species (*Salix sp.),*
- 6.8% White Pine (*Pinus strobus*),
- 4.5% Catalpa (*Catalpa speciosa*),
- 4.5% Red Maple (*Acer rubrum*),
- 4.5% Black Cherry (*Prunus serotina*), and
- 4.5% Buckthorn (*Rhamnus cathartica*).

It is assumed that the trees surveyed are City-owned, since they are located within the City of Mississauga owned property and not located immediately in the front of private residential properties. Where there is proposed development or construction that impact trees, the City of Mississauga's *Tree Preservation & Protection Standards (latest revision)* has been used in this report to provide guidance on determining preservation, protection, and compensation of the impact.

2.3 Protection and Preservation Procedures

For the trees identified for preservation/protection during construction, the Tree Protection Zones (TPZ) for open spaces and woodlands are calculated as per the City's *Tree Preservation and Protection Standards (2017)*:

$$TPZ = \frac{DBH * 12}{100}$$

A map of the TPZs calculated for each tree surveyed is provided in **Figure 4**. Prohibited activities within TPZs are:

- Construction activities,
- Storage of materials and equipment,
- Excavation,
- Grade changes,
- Cutting, tearing, and breaking of tree roots, branches, and trunks,
- Dumping
- Parking
- Stringing cables/wires

Appropriate fencing methods and fencing materials are required to be pre-approved by the City of Mississauga's Parks and Forestry Division prior to construction. Sign installation is mandatory, and the costs are the sole responsibility of the applicant. Signage must be 16 inches by 24 inches on waterproof material. No other signage is to be fixed onto any tree protection hoarding.

Further, causing disruption to vegetation and shrubs on the south side of the fence behind the Rosemere SPS is likely to increase erosion of the bank into Mary Fix Creek. Naturalization of the amended bank is suggested using gabion stones, dogwood, and willow stakes. Staking the amended streambank should be considered as a separate enhancement to the stream habitat and not as replacement tree resources.

2.4 Compensation Requirements

The City of Mississauga lists the following public tree replacement ratios (minimum replacement values) in **Table 2**.

Table 2: Public Tree Replacement Guide

Diameter at Breast Height (DBH in cm)	Number of Replacement Trees
6-15	1
16-30	2
31-45	3
46-60	4
61-75	5
76-90	6
91-105	7
106-120	8
>120	9

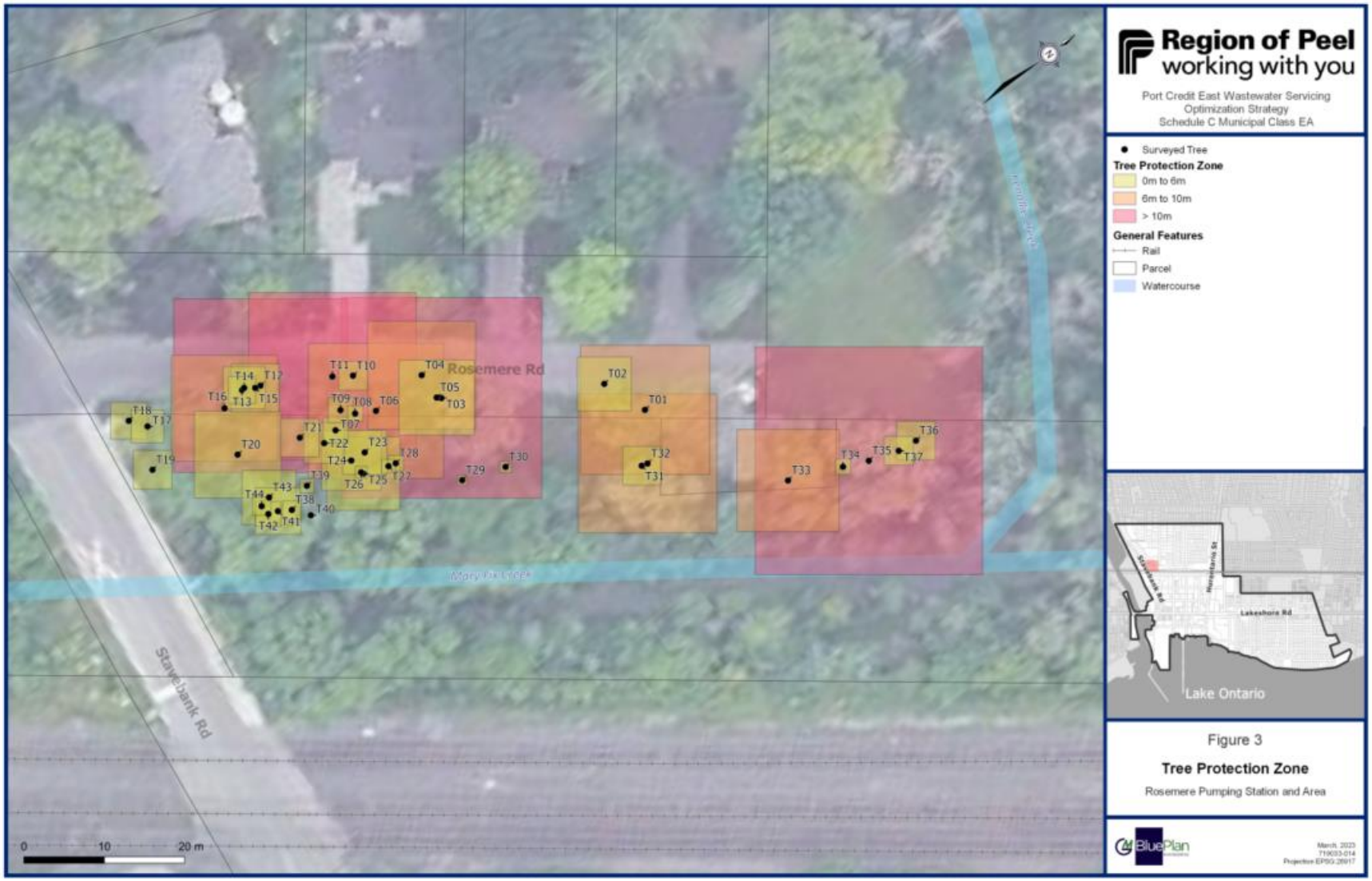


Figure 4: Tree Protection Zone

3.0 Summary of Recommendations

Based on the survey conducted at the Rosemere SPS site, the following recommendations are made:

1) Tree resources that can be maintained during construction will have appropriate tree protection measures put in place as well as regular inspection through the construction period by a Certified Arborist as per the City of Mississauga's *Tree Preservation & Protection Standards (latest revision).*
2) A post-construction inspection by a Certified Arborist or Registered Professional Forester is recommended to check for damage that may have occurred during construction and to ensure appropriate pruning or other mitigation measures in accordance with best management practices and arboricultural standards.
3) Based on the space requirements for the new Rosemere SPS, ensure that public trees are replaced as per the City of Mississauga's *Tree Preservation & Protection Standards (latest revision)*.

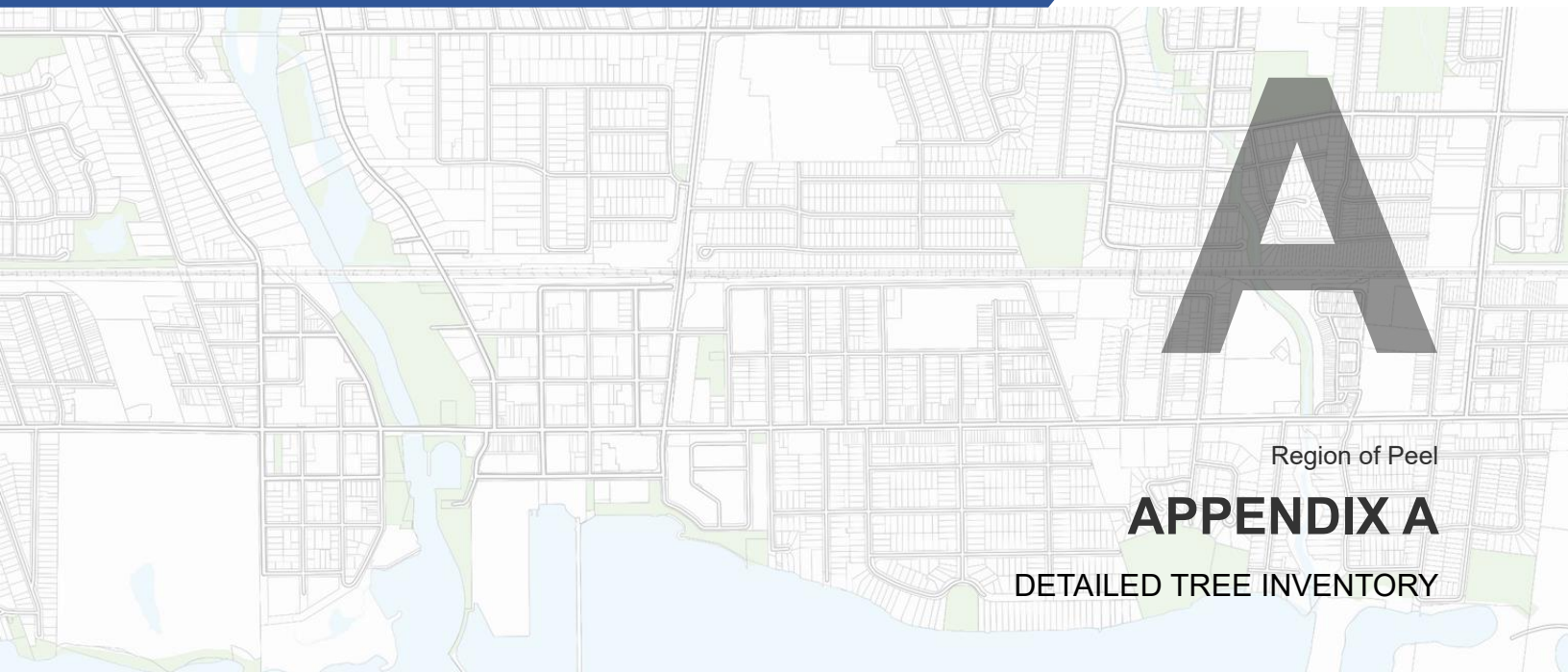
4.0 Limitations of Assessment

Only trees identified in this report were included in the inventory. The assessment of the trees has been completed using standard arboricultural techniques for basic assessment. Visual inspection was conducted from the ground of above-ground tree parts including structural defects, scars, indication of decay, evidence of wildlife and insect damage, general condition of trees, and indication of potentially hazardous trees.

Locations of trees provided in the report were determined as accurately as possible based on the best information available through the use of global positioning unit capture.

Recommendations are based on the discussion of the site plan at the time of the site visit. Note that trees are living organisms and their health and vigour can change over time. Changes in site or weather condition in addition to seasonal growth patterns may lead to stress and strain on certain tree parts which could put added demands on the structural integrity of the tree and its anchorage system. Great stresses and forces applied to the tree may overload the tree leading to full or part tree failure.

Every effort has been made to ensure that this assessment is reasonably accurate, though assessment should re-occur during the construction and post construction phase with regular inspection of tree protection erections. The assessment presented in this report is valid at the time of inspection.



A

Region of Peel

APPENDIX A

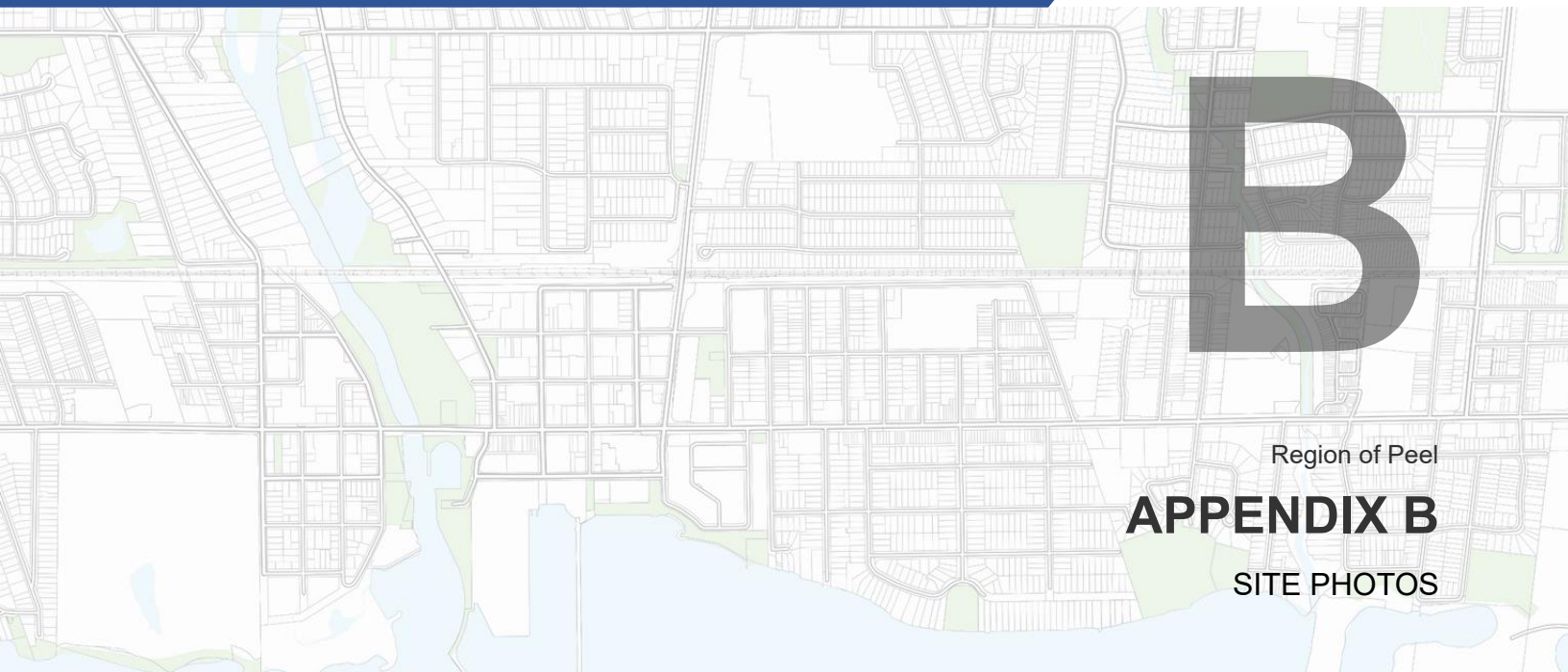
DETAILED TREE INVENTORY

Tree Tag ID	Species ID Common Name	Species ID Scientific Name	Diameter at Breast Height (cm)	TPZ (m) (DBH*12/100) Open Spaces & Woodlands	Estimated Crown Size (m)	Tree Health	Structure	Overall Condition	Comments	Preservation Comments
T01	Catalpa	*Catalpa speciosa*	67	8.04	10	Poor, Dead	Poor	Poor	- Large cavity in basal/root area extending approx. 2m in height from ground in trunk - Many previously broken twigs - Crown is asymmetrical, small compared to tree height	- Trunk seems to have retained good strength, despite large cavity, crown in poor condition, good habitat tree, though suspected dead (lack of buds)
T02	Red maple	*Acer rubrum*	28	3.36	11	Poor	Fair, Poor	Poor	- Trunk is in good condition, main stem/branch in fair condition, large branches from trunk and main are in poor condition, bark peeling from branches. - Evidence of broken & pruned branches	- With additional pruning retention is possible
T03	Willow sp.	*Salix spp.*	104	12.48	12	Fair	Fair	Fair	- 2 broken large branches (old breaks) - 3 cavities visible on trunk from ground observation - Possible bird nest present - Lots of English Ivy growth on main trunk extending approx. 2/3 of trunk - Suspected weeping willow	- Maintain and monitor
T04	Black locust	*Robinia pseudoacacia*	56	6.72	7	Fair, Poor	Poor	Poor	- This is one of two stems of basally split tree - Crown very asymmetrical with heavy lean toward roadway - Evidence of broken branches	- Remove (if required) and replace otherwise monitor
T05	Black locust	*Robinia pseudoacacia*	39	4.68	17	Poor	Poor	Poor	- This is stem 2 of a basally split tree, this stem has additional trunk growth in vertical plane, of DBH 13 cm - Evidence of broken branches, split at base of trunk - Additional uprooted tree leaning on upper scaffold branches (increased weight) - New branch has fallen from the trunk of the tree onto the ground due to windthrow or wind issues (January 18, 2023)	- Remove and replace
T06	Black locust	*Robinia pseudoacacia*	70	8.4	9	Poor	Poor	Poor	- Cavities in trunk, 5 codominant stems with tensions cracks apparent, likely included bark - No active twigs and branches in crown, very sparse - Broken branches apparent	- Remove and replace
T07	Black locust	*Robinia pseudoacacia*	13	1.56	4	Poor	Poor	Poor	- Scaffold branches broken, not a lot of live twigs	- Remove and replace
T08	Black locust	*Robinia pseudoacacia*	8	0.96	4	Poor	Poor	Poor	- Evidence of cavity in trunk, and sounded hollow while tagging, still has life in available twigs, some broken scaffold branches	- Remove and replace
T09	Black locust	*Robinia pseudoacacia*	13	1.56	4	Fair, Poor	Poor	Poor	- Codominant branching near 1.4 m with included bark, seems to have minor crack at this point - Some broken branches	- Remove and replace
T10	Black locust	*Robinia pseudoacacia*	15	1.8	3	Poor	Poor	Poor	- Asymmetrical crown - 2 trunks separate at bottom and returning entwined - Slight lean toward roadway - Broken branches	- Depending on T07, T08, T09, if these are removed then remove T10 as well and replace. Preference for all to be monitored.

Tree Tag ID	Species ID Common Name	Species ID Scientific Name	Diameter at Breast Height (cm)	TPZ (m) (DBH*12/100) Open Spaces & Woodlands	Estimated Crown Size (m)	Tree Health	Structure	Overall Condition	Comments	Preservation Comments
T11	Black locust	*Robinia pseudoacacia*	87	10.44	18	Fair	Fair	Fair	- Some broken scaffold branches toward roadside - Made of 4 codominant stems - Evidence of nesting	- Maintain and monitor
T12	Black locust	*Robinia pseudoacacia*	90	10.8	23	Fair, Poor	Fair	Fair	- Some bark is peeling from main trunk - Cavities present - Codominant stems with included bark - 1 scaffold branch appears to be imminent in its likelihood of failure (likely to fall away from road)	- Prune and monitor
T13	Black locust	*Robinia pseudoacacia*	14	1.68	7	Fair	Poor	Poor	- Large stem extending from main trunk with included bark, bulge at base	- Maintain and monitor
T14	Black locust	*Robinia pseudoacacia*	22	2.64	8	Good	Fair	Fair	- Asymmetrical crown with slight lean toward roadway	- Maintain and monitor
T15	Black locust	*Robinia pseudoacacia*	25	3	4	Fair, Poor	Poor	Poor	- Broken scaffold branches and very small crown	- Monitor and monitor
T16	Black locust	*Robinia pseudoacacia*	55	6.6	8	Fair	Fair, Poor	Fair	- Some broken scaffold branches, codominant stems with included bark - Asymmetrical crown toward roadways	- Maintain and monitor
T17	White pine	*Pinus strobus*	17	2.04	5	Good	Fair	Good	- Crown asymmetrical toward intersection, trunk slightly wavy - Evidence of prior weeping (sap)	- Maintain and monitor
T18	White pine	*Pinus strobus*	19	2.28	6	Poor	Fair	Fair	- Recently raised, tree exhibiting stress, yellow needles, and evidence of weeping (sap)	- Maintain and monitor
T19	White pine	*Pinus strobus*	20	2.4	5	Good	Good	Good	- Recently raised, evidence of weeping (sap)	- Maintain and monitor
T20	Black locust	*Robinia pseudoacacia*	45	5.4	9	Fair	Poor	Poor	- Codominant stems, 2nd stem is DBH 37 cm, - Both stems then split with included bark, both with large cracks/spacing between stems with increased likelihood for failure - Asymmetrical crown and leaning trunks	- Monitor, may need tree supports, otherwise remove and replace
T21	Black locust	*Robinia pseudoacacia*	20	2.4		Dead	Dead	Dead	- This tree is dead, but providing support to windthrown trees and hangers - Marked with orange “X”	- Remove (with care) and replace
T22	Black locust	*Robinia pseudoacacia*	21	2.52		Poor, Dead	Poor, Dead	Poor, Dead	- Partially uprooted, codominant stems, bark removed on large portion of smaller stem (DBH 13 cm) - Currently supported by another tree	- Remove (with care) and replace
T23	Black locust	*Robinia pseudoacacia*	23	2.76		Dead	Dead	Dead	- Uprooted, currently supported by fence	- Remove (with care) and replace
T24	Black locust	*Robinia pseudoacacia*	31	3.72	2	Poor	Poor	Poor	- Tree was previously leaning and has now been completely windthrown - Partial roots still underground but largely uprooted, and trunk is parallel to the ground and resting on the ground	- Remove (with care) and replace

Tree Tag ID	Species ID Common Name	Species ID Scientific Name	Diameter at Breast Height (cm)	TPZ (m) (DBH*12/100) Open Spaces & Woodlands	Estimated Crown Size (m)	Tree Health	Structure	Overall Condition	Comments	Preservation Comments
T25	Dead		38	4.56		Dead	Dead	Dead	- Tree has been completely windthrown and is now resting entirely on T26	- Remove and replace
T26	Black cherry	*Prunus serotina*	6	0.72	2	Fair, Poor	Poor	Poor	- Very steep lean through some buds visible	- Maintain and monitor (young)
T27	Buckthorn	*Rhamnus cathartica*	7	0.84		Good	Poor	Poor	- Invasive species: windthrown trees have broken several branches on this plant and bent others - No longer easily accessible	- Remove and replace
T28	Buckthorn	*Rhamnus cathartica*	8	0.96		Good	Good	Good	- Invasive species	- Remove and replace
T29	Black locust	*Robinia pseudoacacia*	5	0.6	2	Fair	Poor	Poor	- English Ivy growing at base; windthrown trees have broken several branches on this plant and bent others - No longer easily accessible	- Maintain and monitor
T30	Basswood	*Tilia americana*	6	0.72	4	Good	Good	Good	- English Ivy is starting to grow around the trunk	- Maintain and monitor
T31	Basswood	*Tilia americana*	20	2.4	8	Good	Good	Good	- English Ivy is starting to grow around the trunk very close to fence	- Maintain and monitor
T32	Willow sp.	*Salix spp.*	72	8.64		Poor	Poor	Poor	- Tree was topped but it has a lot of regrowth coming out of the trunk - English Ivy is growing around the trunk from the basal areas up to about 2.5 m to 3 m in height removal may cause damage to Basswood next to Willow	- Maintain and monitor (for habitat purposes)
T33	Catalpa	*Catalpa speciosa*	53	6.36	7	Fair	Fair, Poor	Fair	- This Willow is covered by English Ivy vines up to about 9.1 m from the ground - Fair number of broken branches, however trunk seems good otherwise	- Maintain and monitor
T34	Red maple	*Acer rubrum*	8	0.96	8	Good	Fair	Fair	- Slight lean in tree trunk with asymmetrical crown otherwise good condition some English Ivy growing up to about 0.1 m from the ground	- Maintain and monitor
T35	Willow sp.	*Salix spp.*	118	14.16	12	Fair	Fair, Poor	Fair, Poor	- Fence union slightly above DBH looks like it's not very strong there are some cavity holes - English Ivy is growing approximately 2.6 m from the ground on the trunk of the tree - Broken branches and resprouting in certain areas of the canopy cover	- Maintain and monitor
T36	Basswood	*Tilia americana*	20	2.4	6	Poor	Fair, Poor	Poor	- Bark is coming off main trunk, still has buds - Beginning to show basal rot - Cavities - Evidence of insect borehole - Asymmetrical crown, and broken branches	- Remove and replace

Tree Tag ID	Species ID Common Name	Species ID Scientific Name	Diameter at Breast Height (cm)	TPZ (m) (DBH*12/100) Open Spaces & Woodlands	Estimated Crown Size (m)	Tree Health	Structure	Overall Condition	Comments	Preservation Comments
T37	Black cherry	*Prunus serotina*	15	1.8	6	Fair	Fair, Poor	Fair	- Main growth of the trunk is leaning with some new growth compensating as the leader - Some broken branches also resting heavily on dead tree (T36)	- Maintain and monitor
T38	Ash sp.	*Fraxinus spp.*	9.5	1.14	4	Fair, Poor	Poor	Poor	- Strong lean away from main growth of tree with some broken branches - Another tree is leaning on this tree resource - Evidence of some deer browse	- Remove and replace
T39	Ash sp.	*Fraxinus spp.*	7.5	0.9	4	Good	Good	Good	- Tree in good condition	- Maintain and monitor
T41	Black locust	*Robinia pseudoacacia*	24	2.88	4	Poor	Poor	Poor	- Many dead and broken branches - Vines growing up through the canopy	- Remove and replace
T42	Black locust	*Robinia pseudoacacia*	13	1.56	2	Poor	Poor	Poor	- Growing in the fence structure - Broken canopy branches - Lots of vines going through the branches up to the canopy	- Remove and replace
T43	Basswood	*Tilia americana*	28	3.36	5	Fair, Poor	Poor	Fair, Poor	- The live branches on this tree are in good health although there are some branches that are broken and missing bark - There are a couple of cavities and some already missing bark - Structure seems to be a little bit strange in some areas of this tree	- Maintain and monitor
T44	Basswood	*Tilia americana*	9.5	1.14	5	Fair, Poor	Poor	Poor	- The structure of the tree is bent due to heavyweight of vines on the tree trunk - Some of the bark is broken and has led to discoloration in those areas - Potential of pest or disease that's affecting this tree	- Remove and replace



B

Region of Peel

APPENDIX B

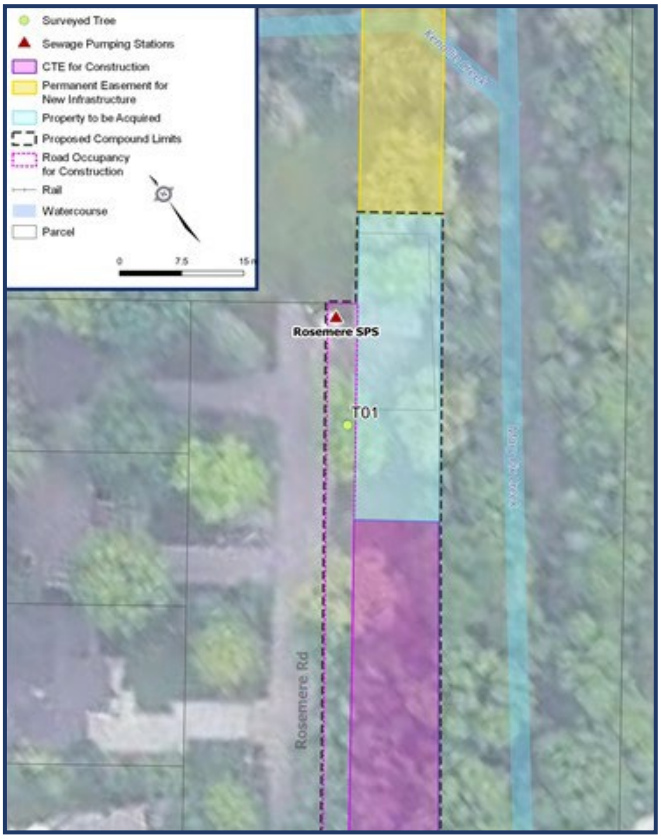
SITE PHOTOS

Figure 1. Location of Rosemere site facing west on Stavebank Road and Rosemere Road.

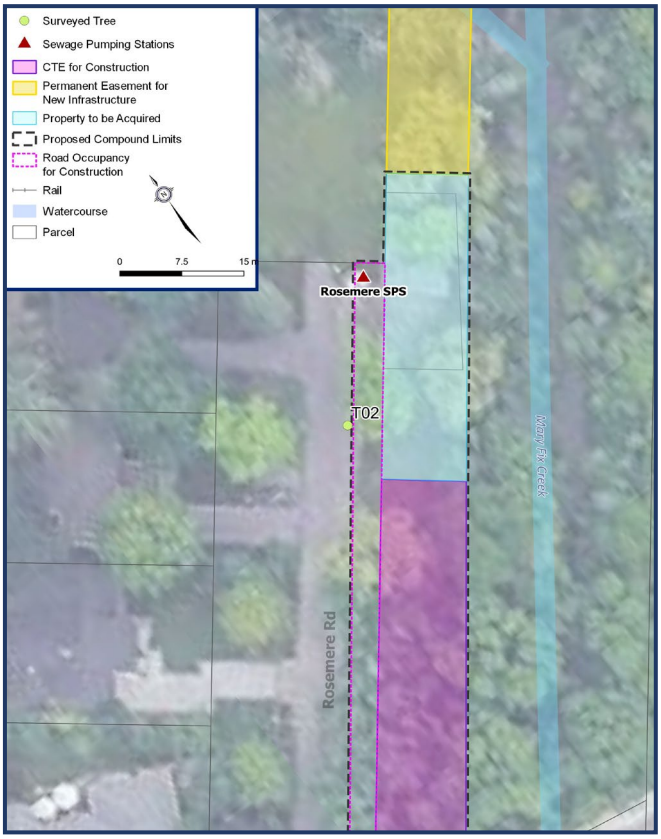
Figure 2. Location of Rosemere site facing east on Stavebank Road and Rosemere Road.

Figure 3. Survey area facing toward Stavebanks Road from the Rosemere Pumping Station.

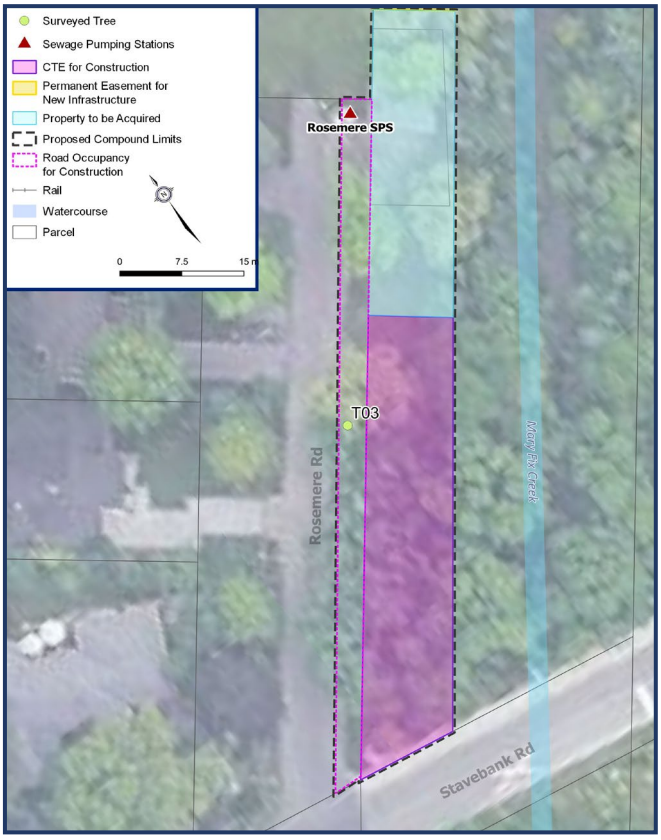
Figure 4. Trees and area located behind Rosemere Pumping Station.



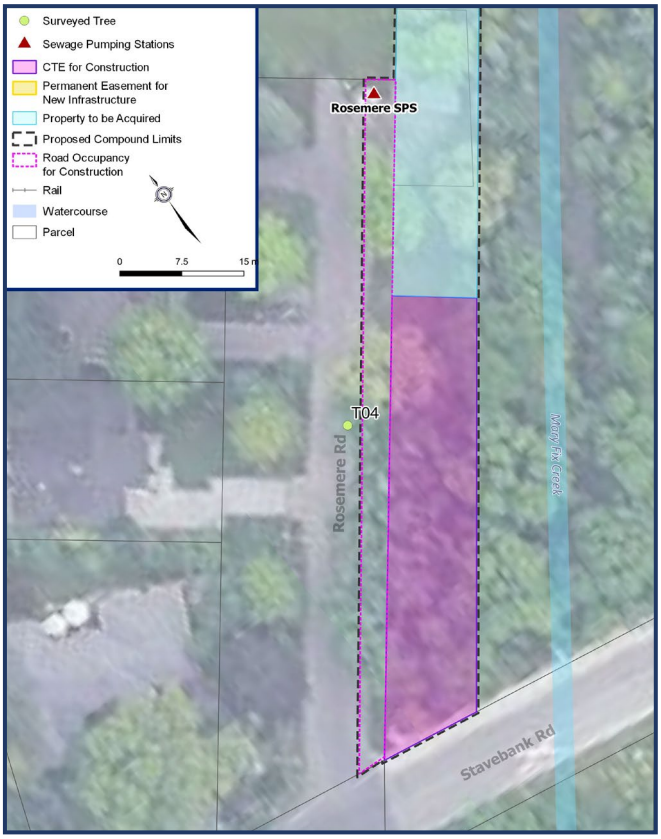
Tree ID	T01
Species Common Name *(Scientific Name)*	Catalpa *(Catalpa speciosa)*
Diameter at Breast Height (cm)	67
Crown Size (m)	10
Overall Condition	Poor



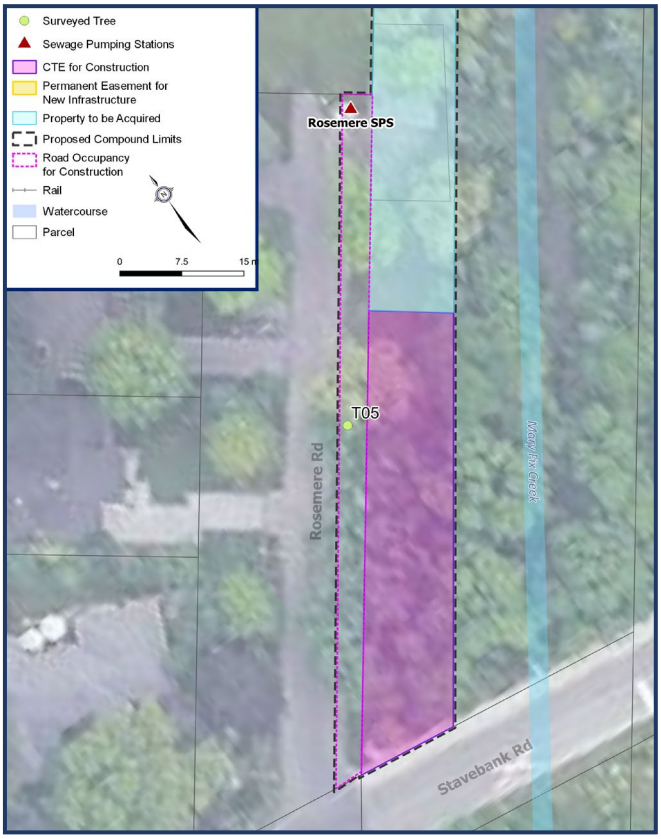
Tree ID	T02
Species Common Name *(Scientific Name)*	Red Maple *(Acer Rebrum)*
Diameter at Breast Height (cm)	28
Crown Size (m)	11
Overall Condition	Poor



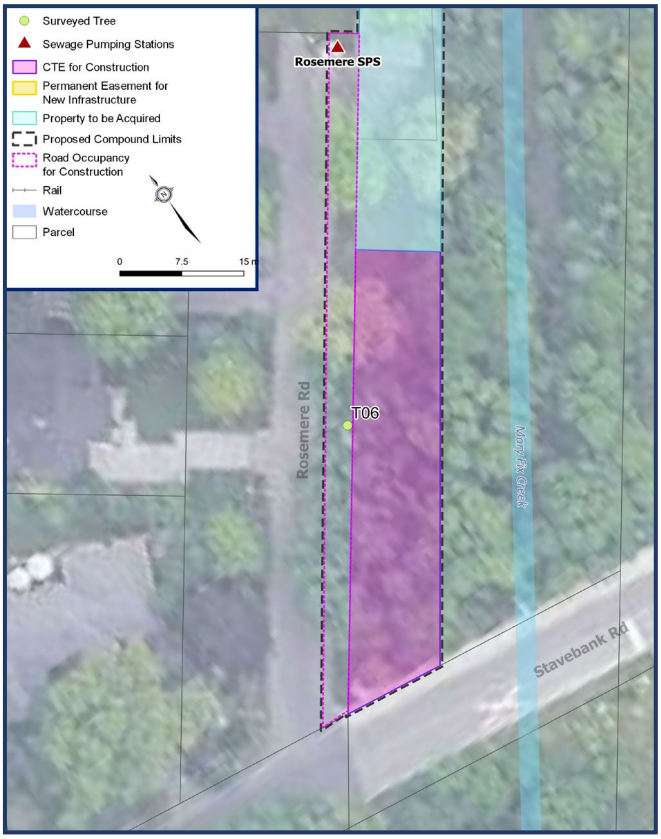
Tree ID	T03
Species Common Name *(Scientific Name)*	Willow Sp. *(Salix spp.)*
Diameter at Breast Height (cm)	104
Crown Size (m)	12
Overall Condition	Fair



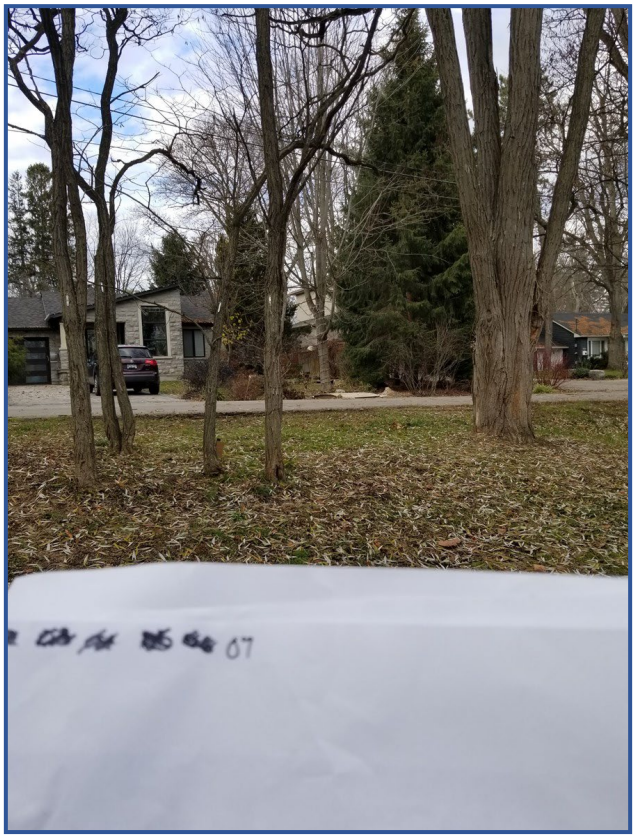
Tree ID	T04
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	56
Crown Size (m)	7
Overall Condition	Poor

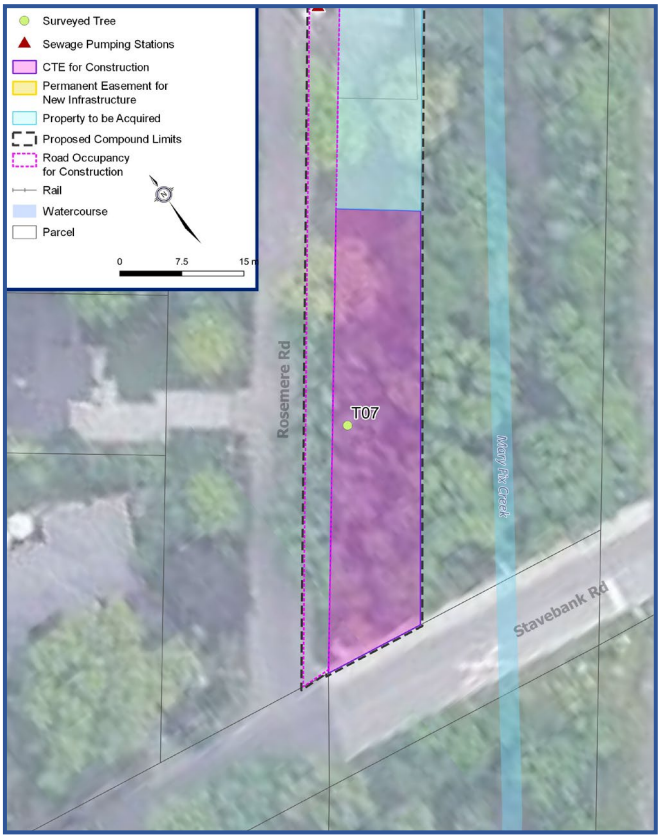


Tree ID	T05
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	39
Crown Size (m)	17
Overall Condition	Poor

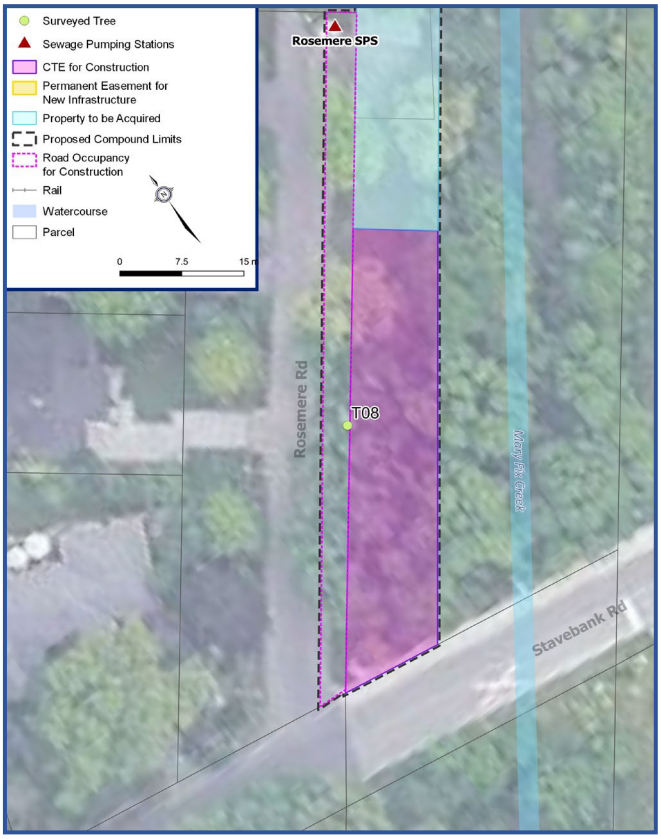


Tree ID	T06
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	70
Crown Size (m)	9
Overall Condition	Poor

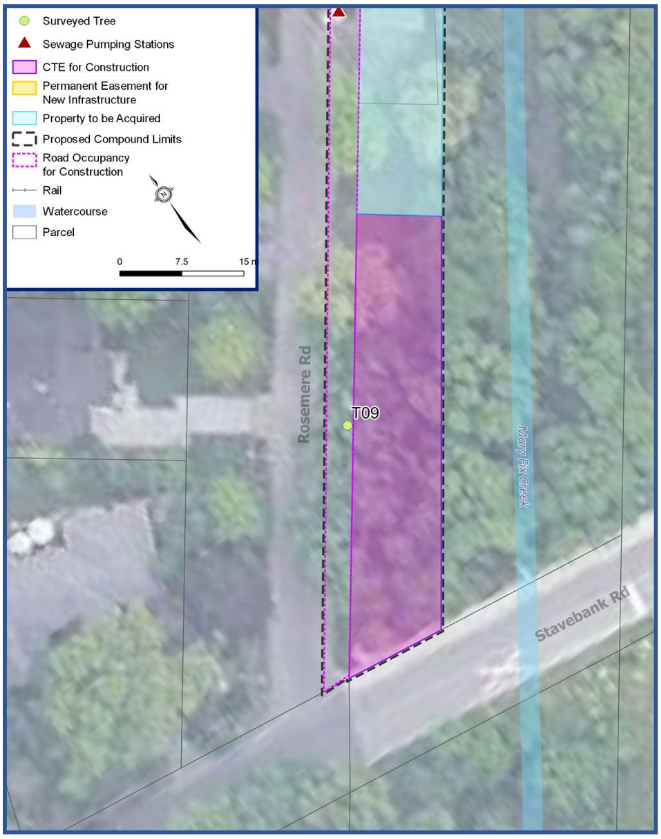




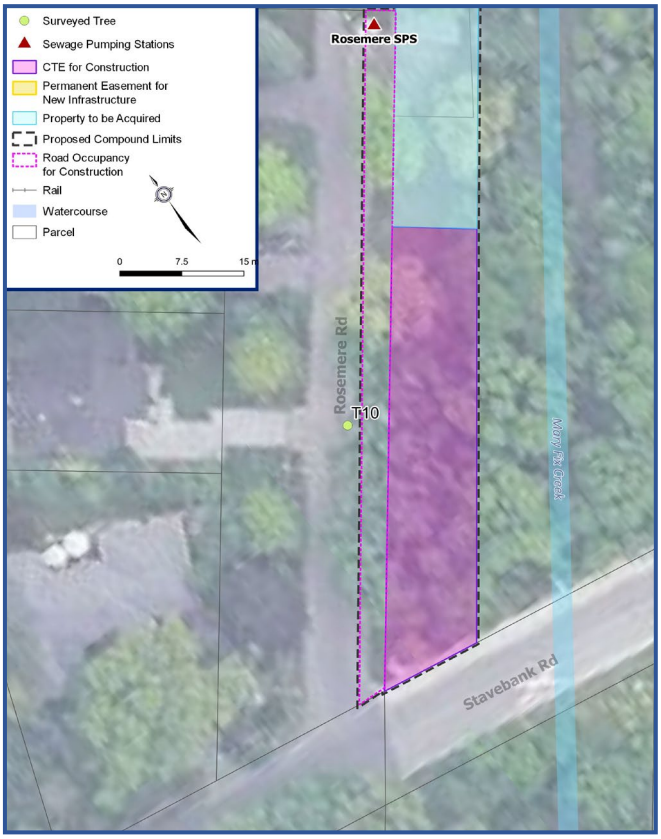
Tree ID	T07
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	13
Crown Size (m)	4
Overall Condition	Poor



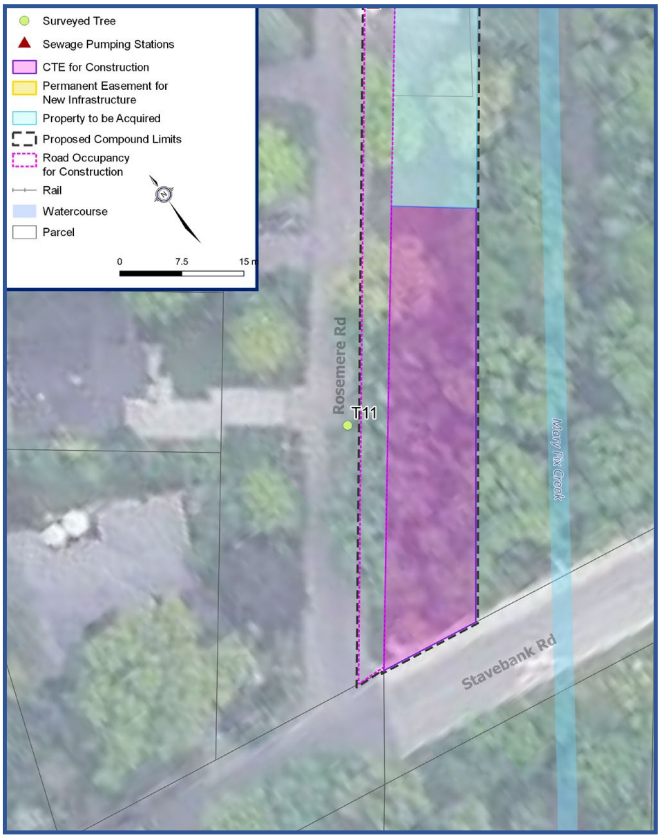
Tree ID	T08
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	8
Crown Size (m)	4
Overall Condition	Poor



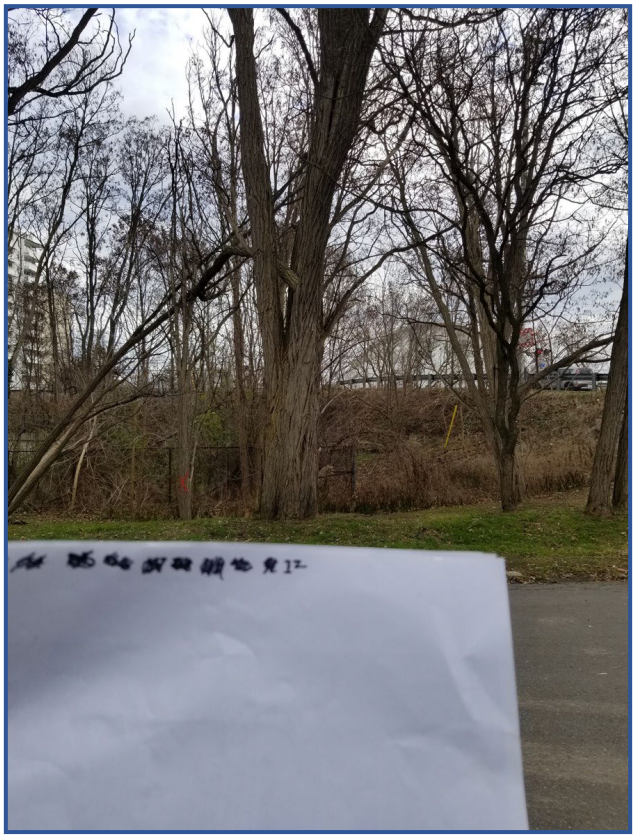
Tree ID	T09
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	13
Crown Size (m)	4
Overall Condition	Poor

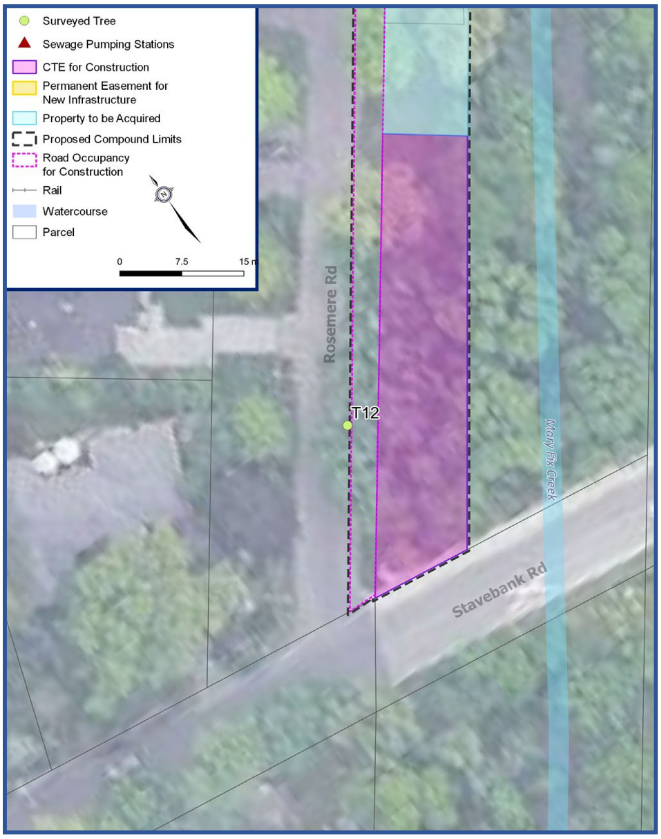


Tree ID	T10
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	15
Crown Size (m)	3
Overall Condition	Poor

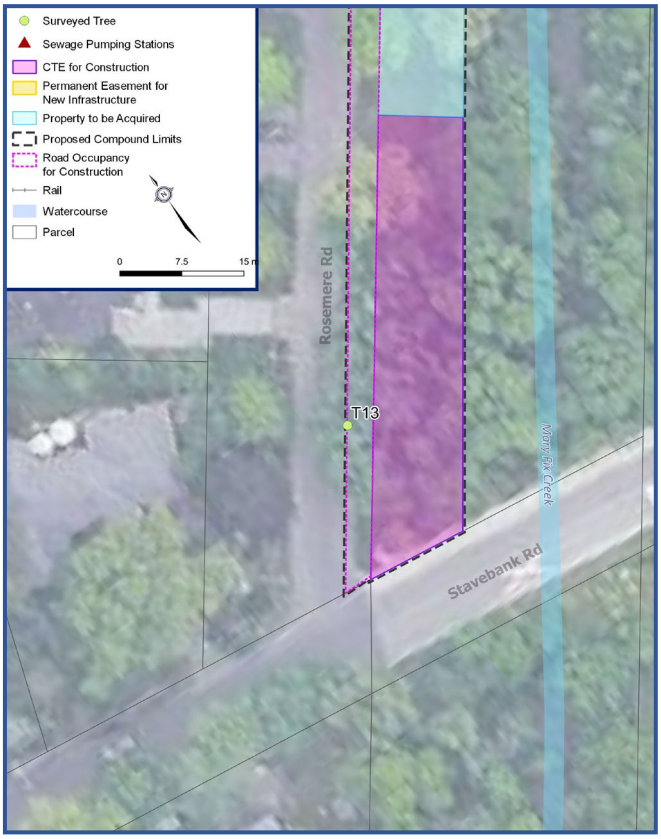


Tree ID	T11
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	87
Crown Size (m)	18
Overall Condition	Fair

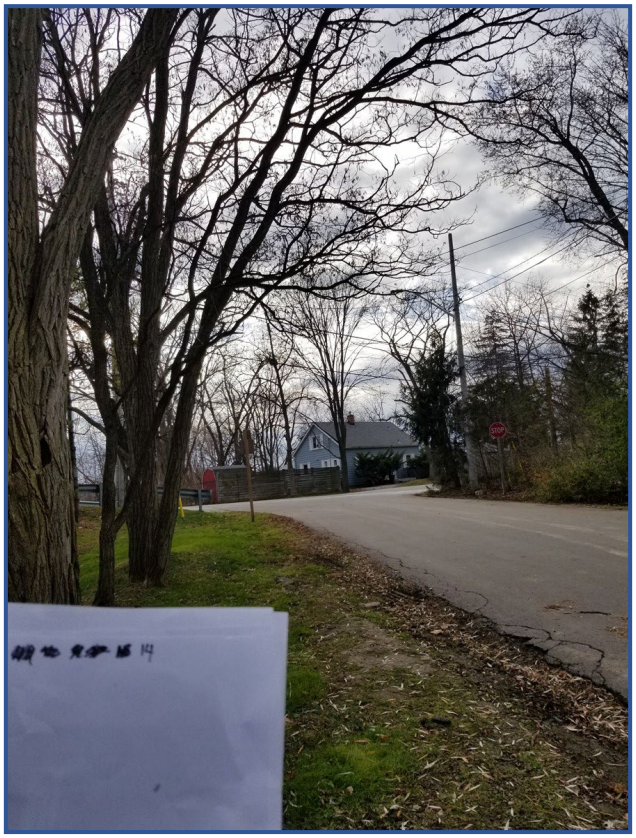


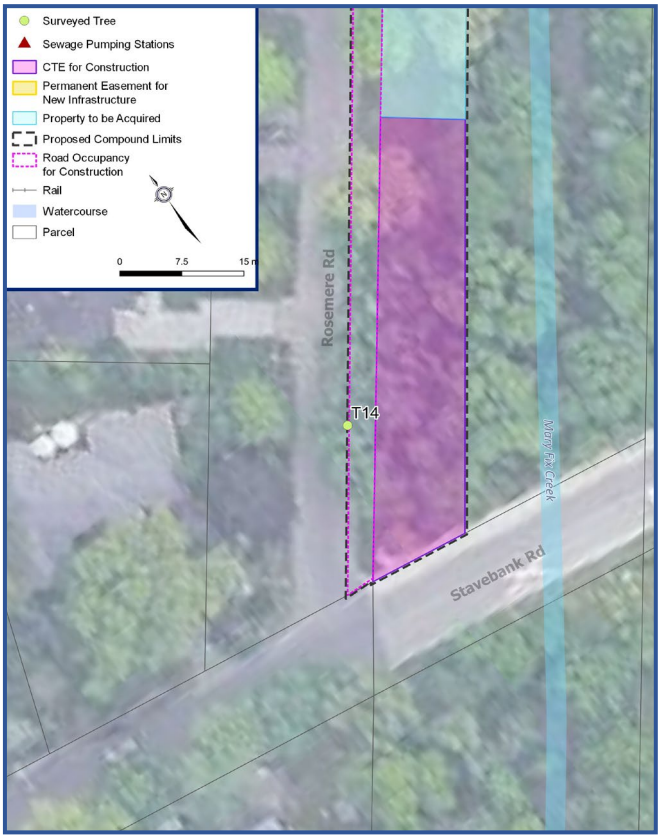


Tree ID	T12
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	90
Crown Size (m)	23
Overall Condition	Fair

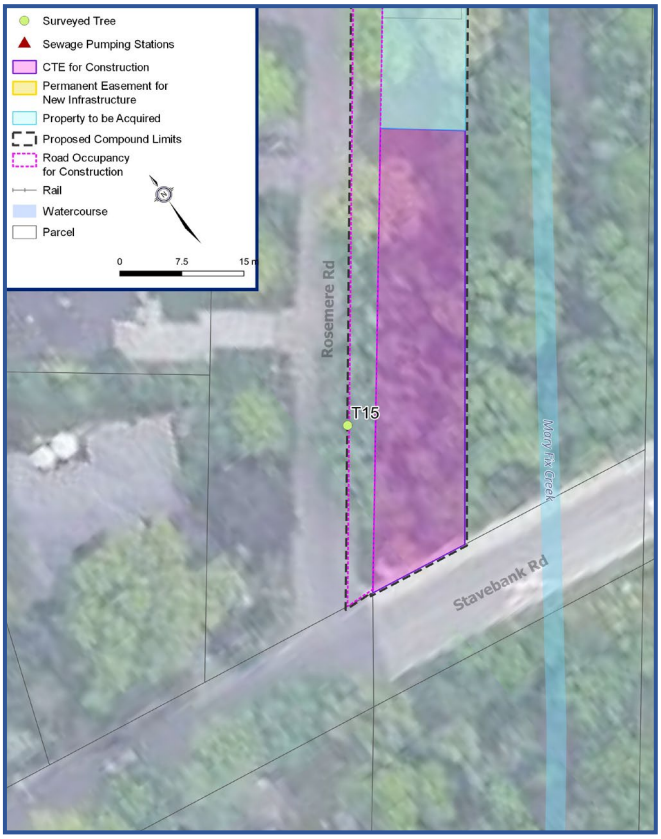


Tree ID	T13
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	14
Crown Size (m)	7
Overall Condition	Poor

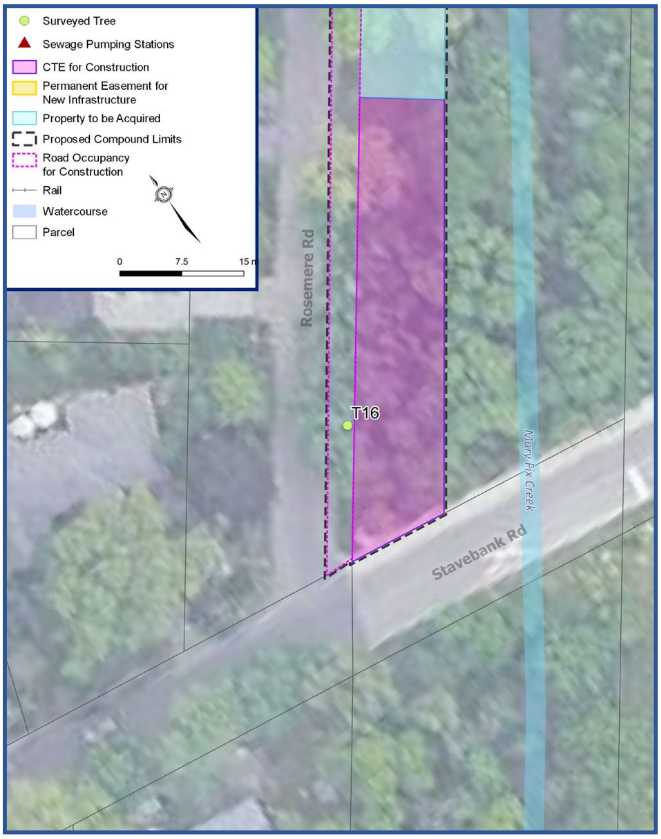




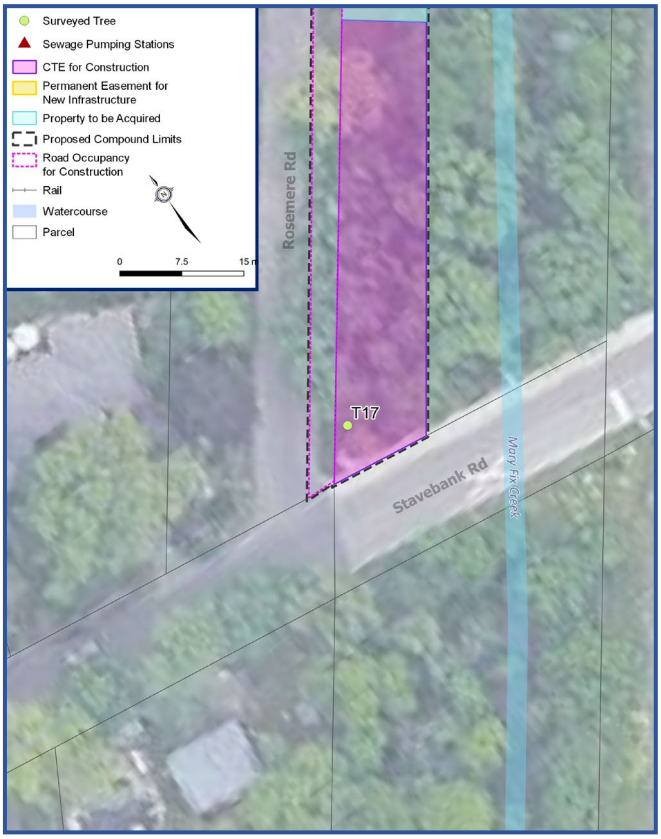
Tree ID	T14
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	22
Crown Size (m)	8
Overall Condition	Fair



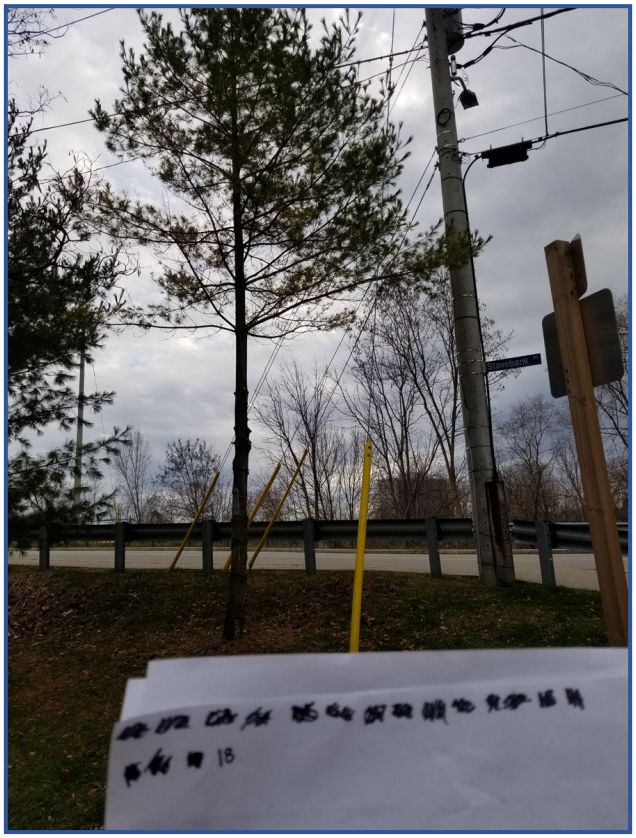
Tree ID	T15
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	25
Crown Size (m)	4
Overall Condition	Poor



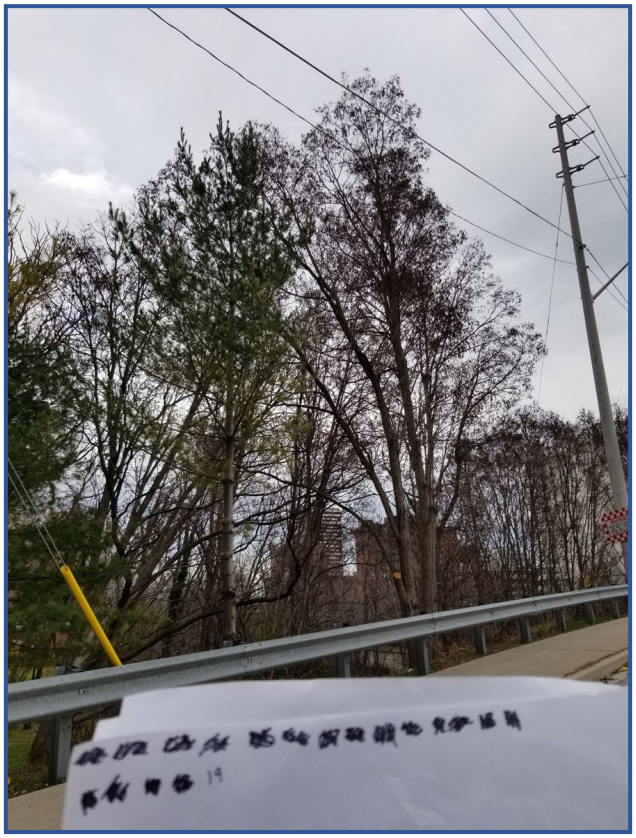
Tree ID	T16
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	55
Crown Size (m)	8
Overall Condition	Fair

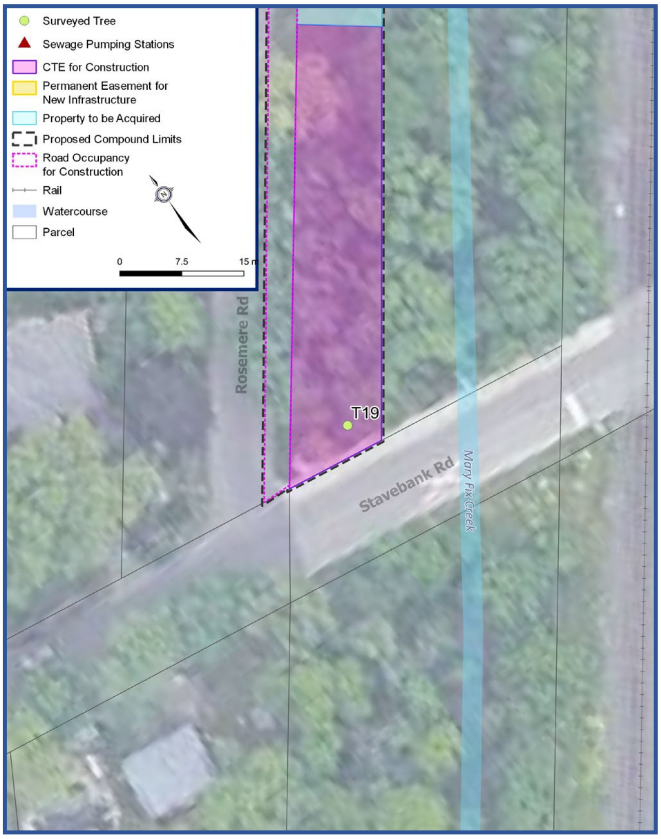


Tree ID	T17
Species Common Name *(Scientific Name)*	White Pine *(Pinus strobus)*
Diameter at Breast Height (cm)	17
Crown Size (m)	5
Overall Condition	Good

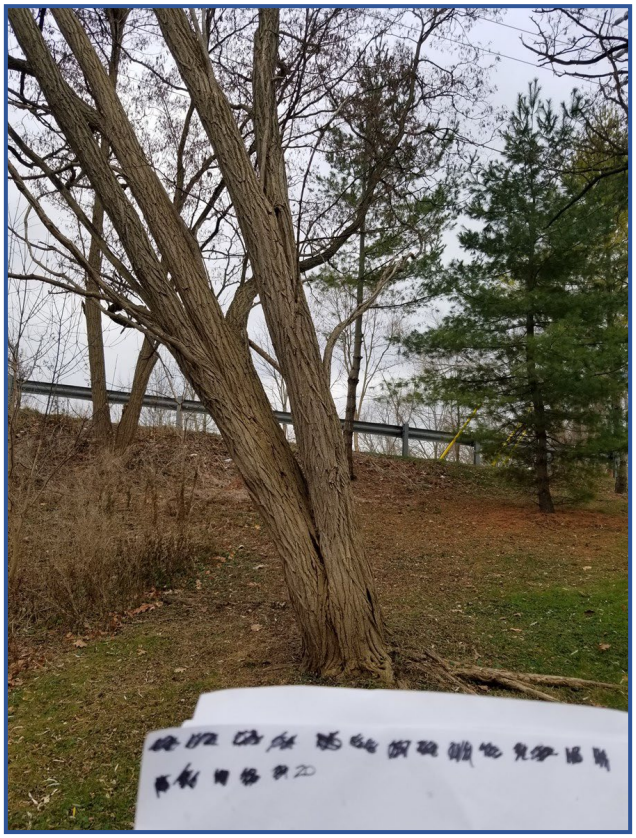


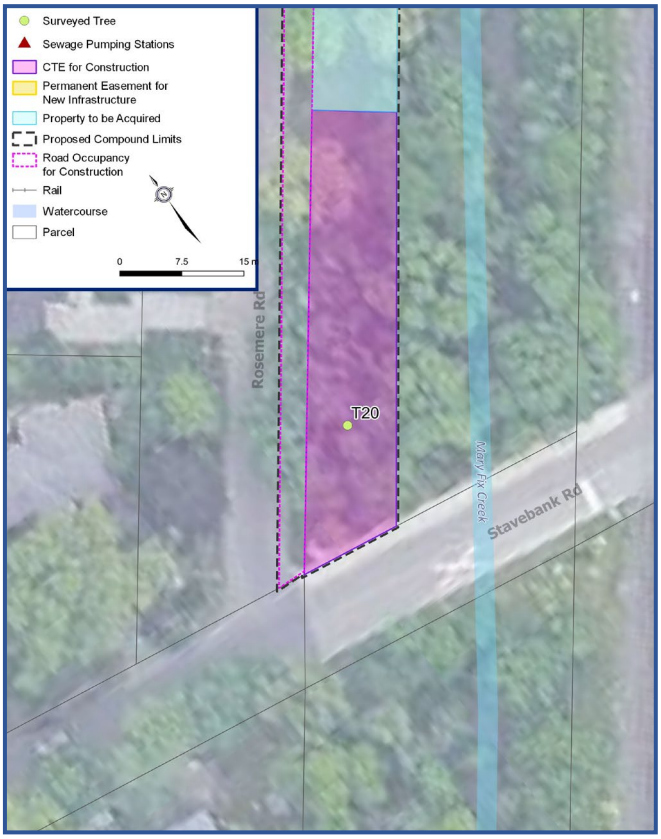
Tree ID	T18
Species Common Name *(Scientific Name)*	White Pine *(Pinus strobus)*
Diameter at Breast Height (cm)	19
Crown Size (m)	6
Overall Condition	Fair



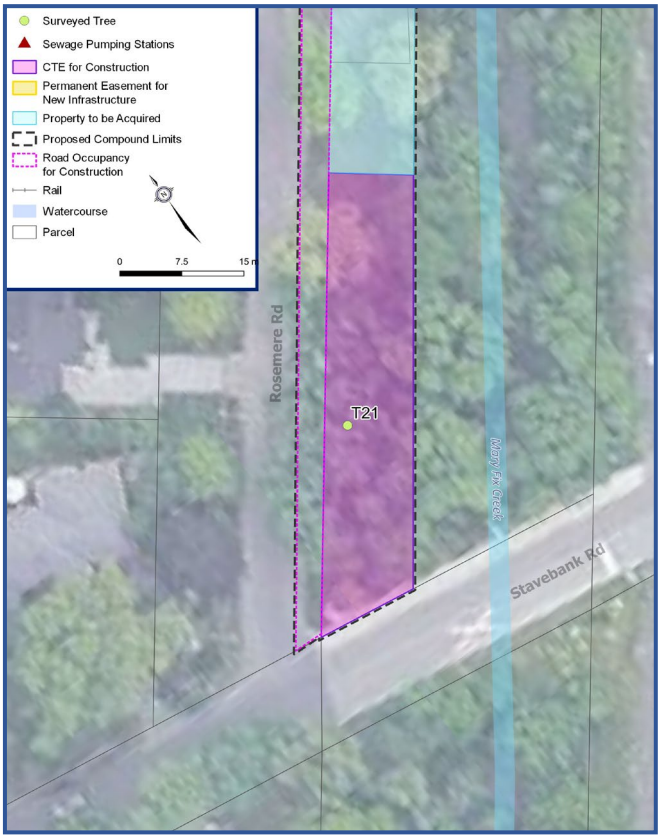


Tree ID	T19
Species Common Name *(Scientific Name)*	White Pine *(Pinus strobus)*
Diameter at Breast Height (cm)	20
Crown Size (m)	5
Overall Condition	Good

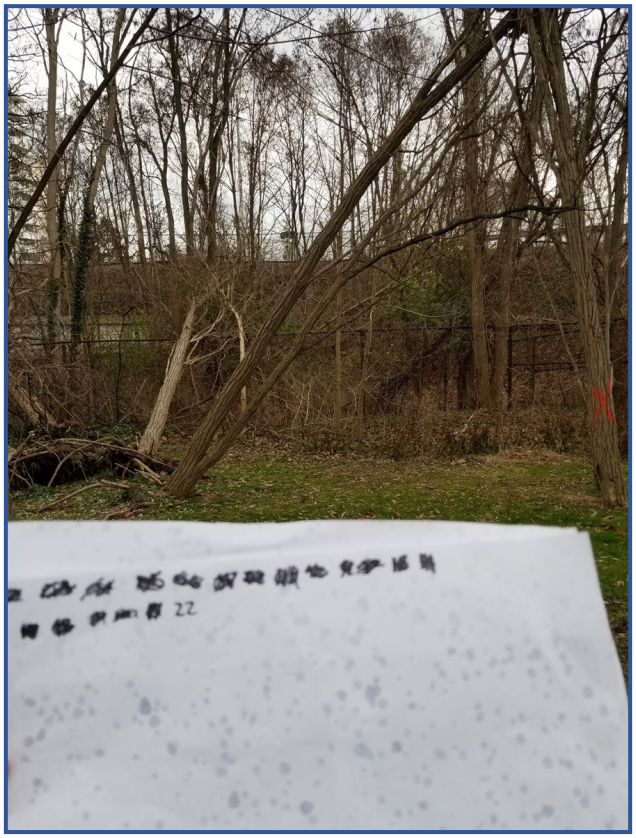


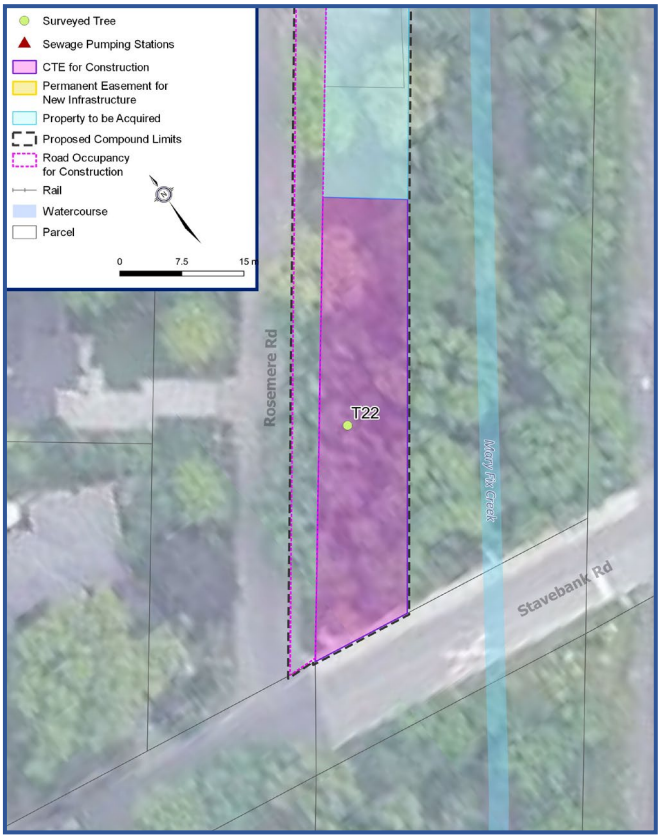


Tree ID	T20
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	45
Crown Size (m)	9
Overall Condition	Poor

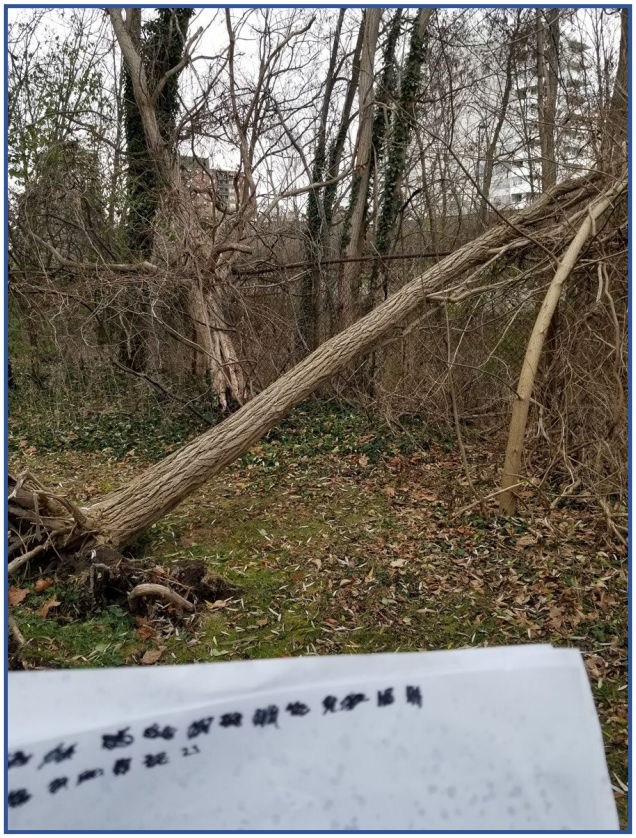


Tree ID	T21
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	20
Crown Size (m)	Not Applicable
Overall Condition	Dead

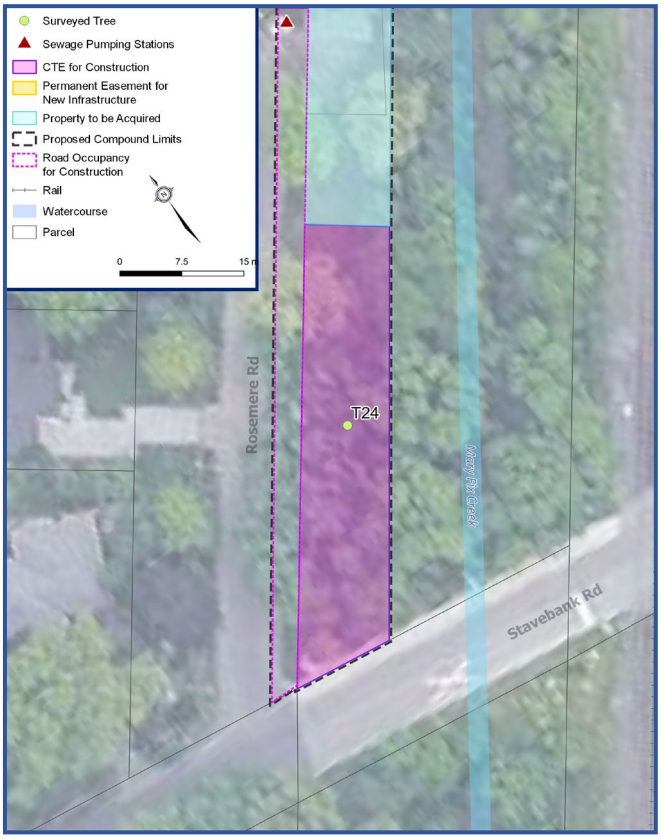




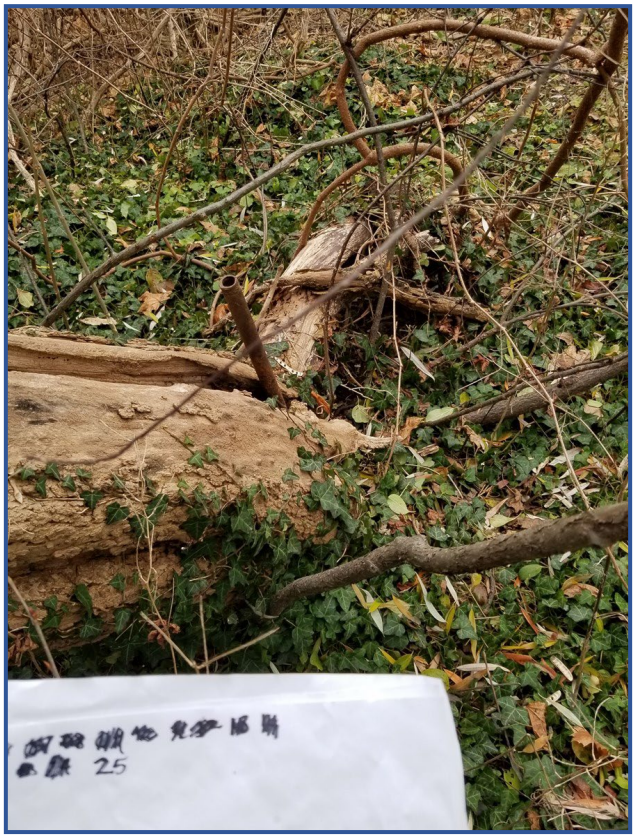
Tree ID	T22
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	21
Crown Size (m)	Not Applicable
Overall Condition	Dead

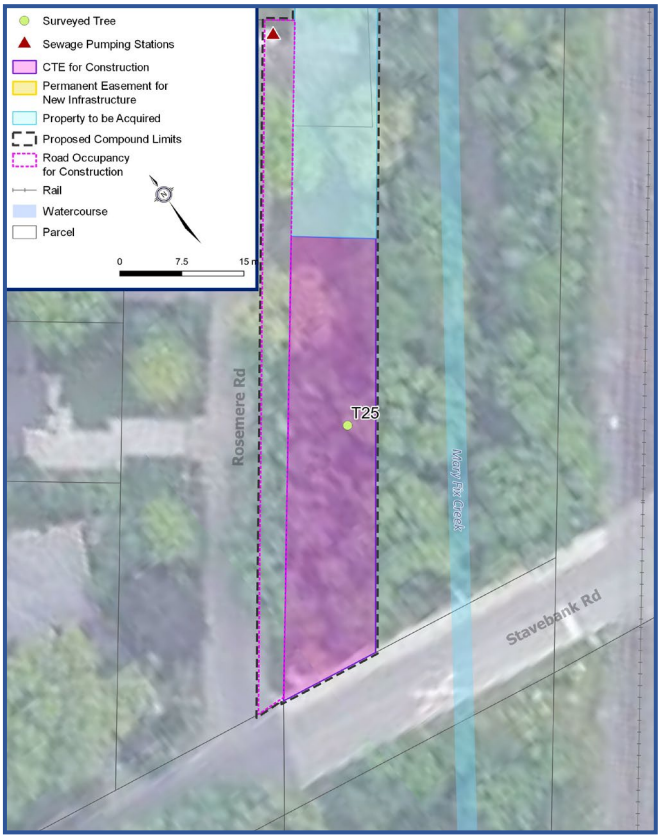


Tree ID	T23
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	23
Crown Size (m)	Not Applicable
Overall Condition	Dead

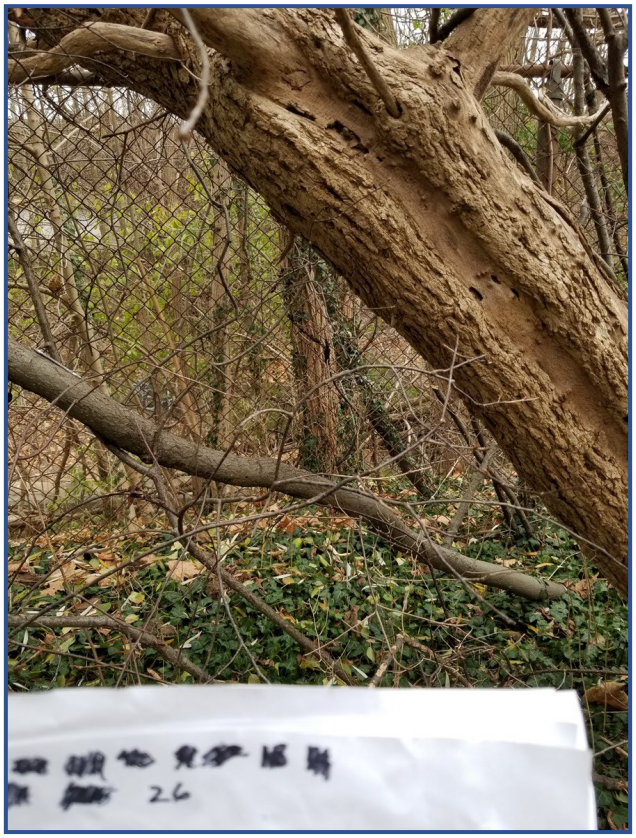


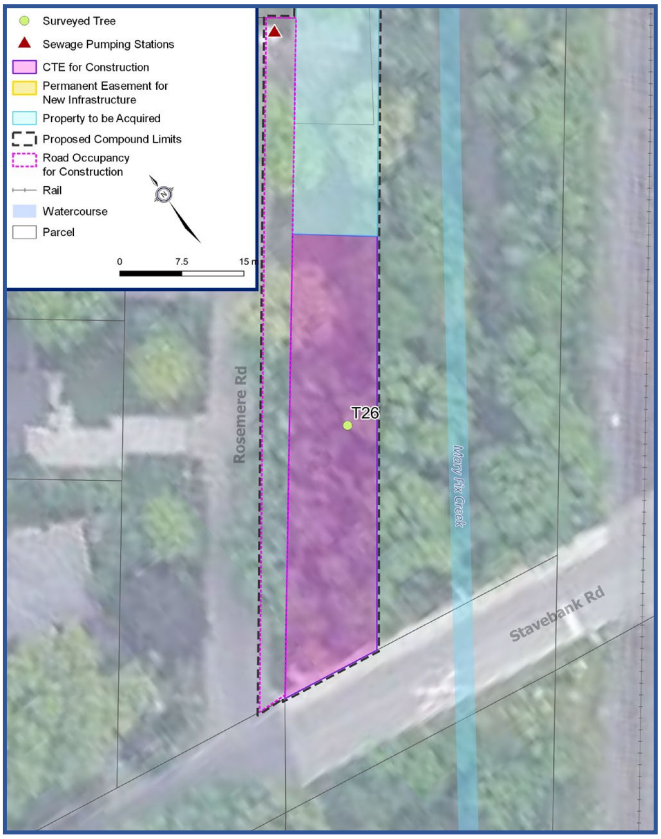
Tree ID	T24
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	31
Crown Size (m)	2
Overall Condition	Poor



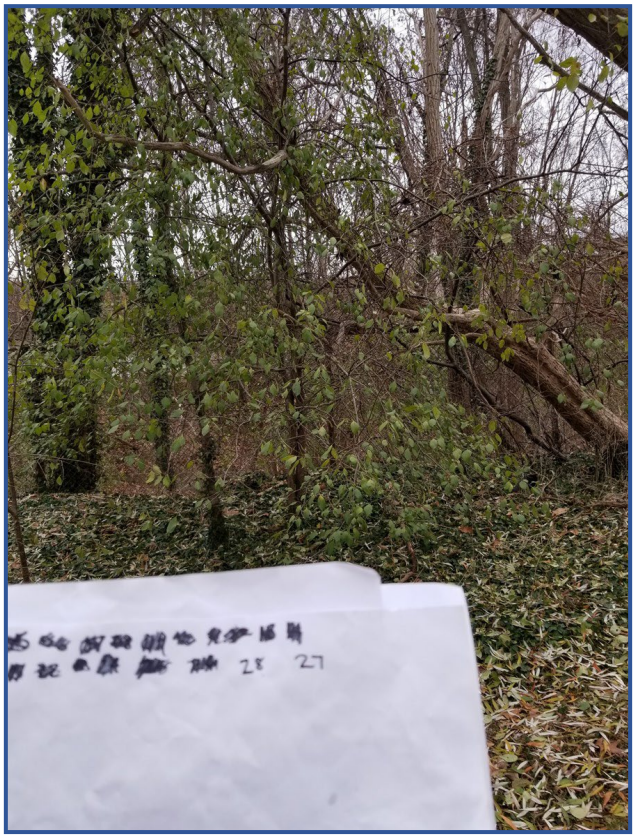


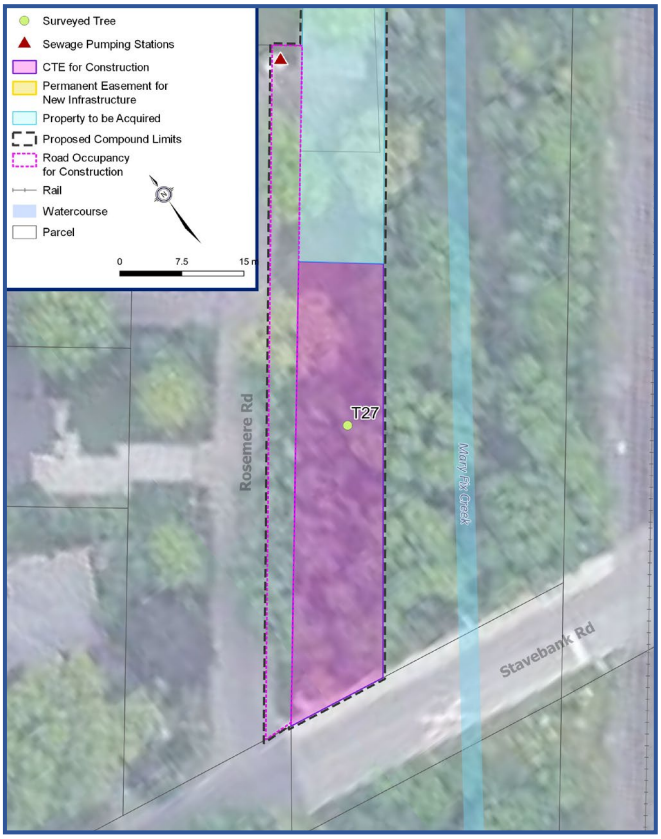
Tree ID	T25
Species Common Name *(Scientific Name)*	Not Applicable
Diameter at Breast Height (cm)	38
Crown Size (m)	Not Applicable
Overall Condition	Dead



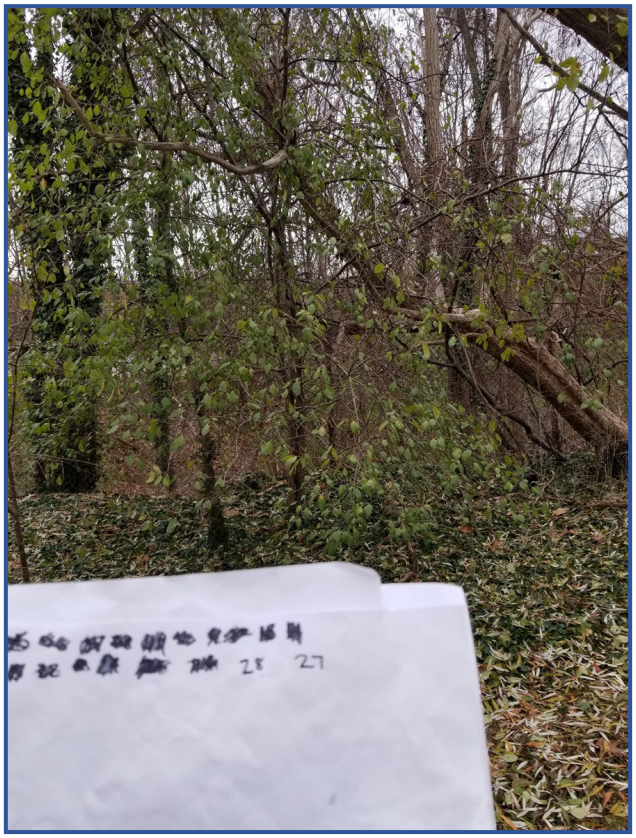


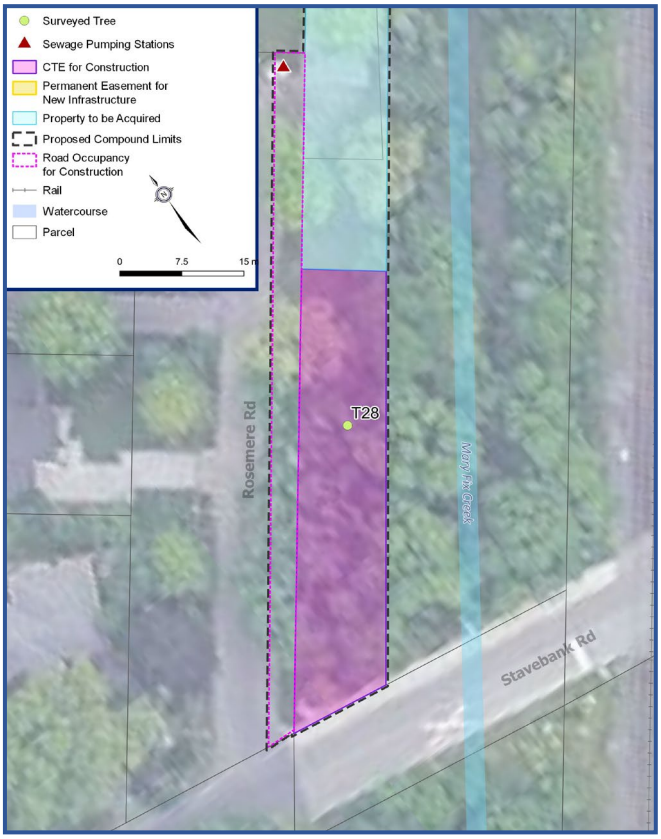
Tree ID	T26
Species Common Name *(Scientific Name)*	Black Cherry *(Prunus Serotina)*
Diameter at Breast Height (cm)	6
Crown Size (m)	2
Overall Condition	Poor



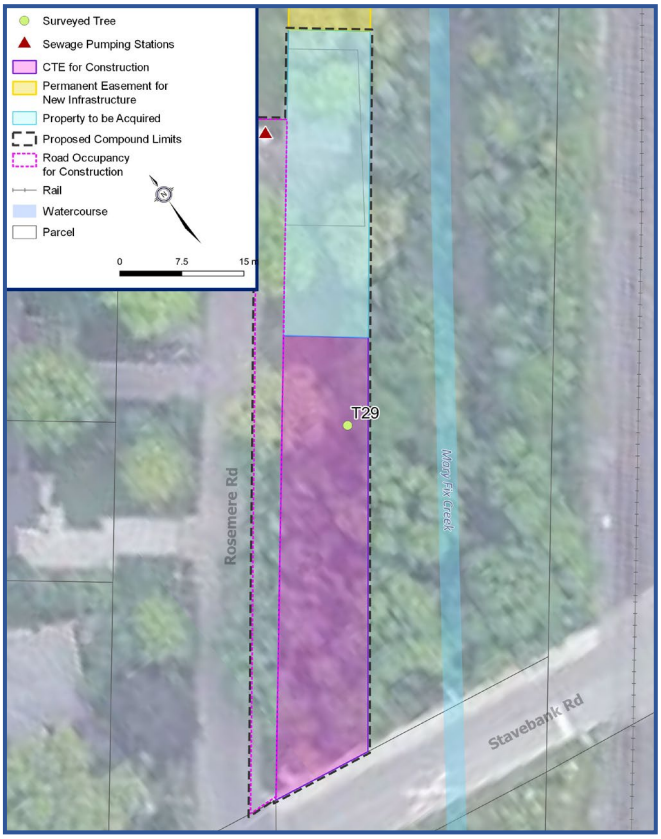


Tree ID	T27
Species Common Name *(Scientific Name)*	Buckthorn *(Rhamnus Cathartica)*
Diameter at Breast Height (cm)	7
Crown Size (m)	0
Overall Condition	Poor

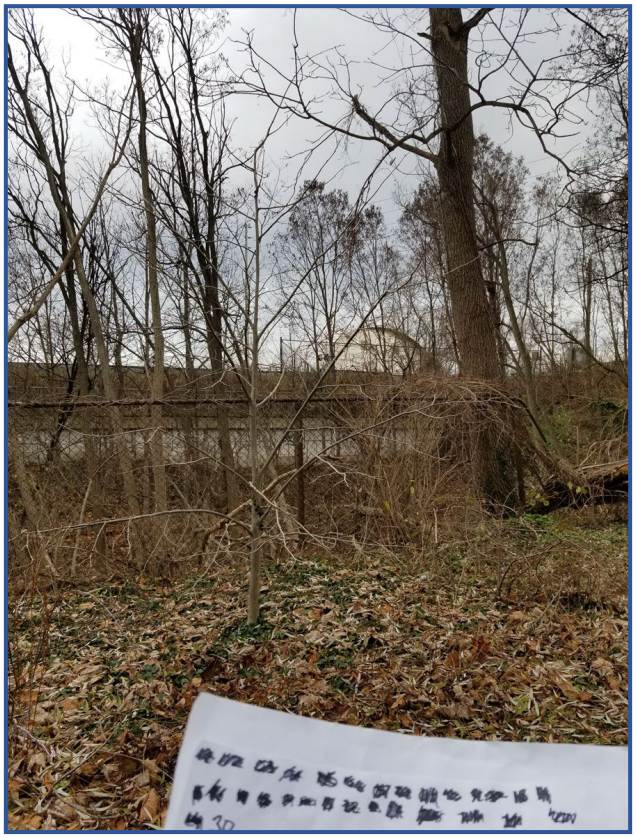


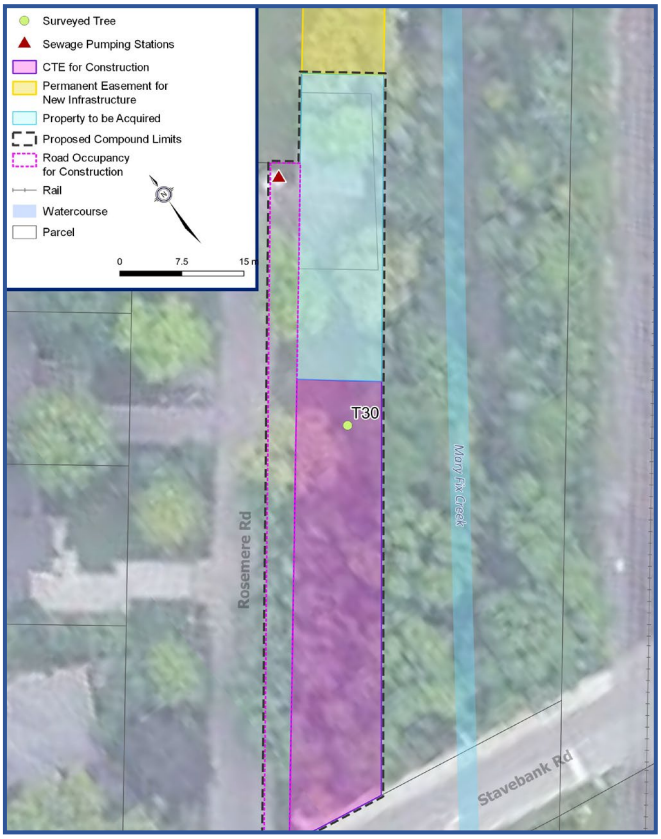


Tree ID	T28
Species Common Name *(Scientific Name)*	Buckthorn *(Rhamnus Cathartica)*
Diameter at Breast Height (cm)	8
Crown Size (m)	0
Overall Condition	Good

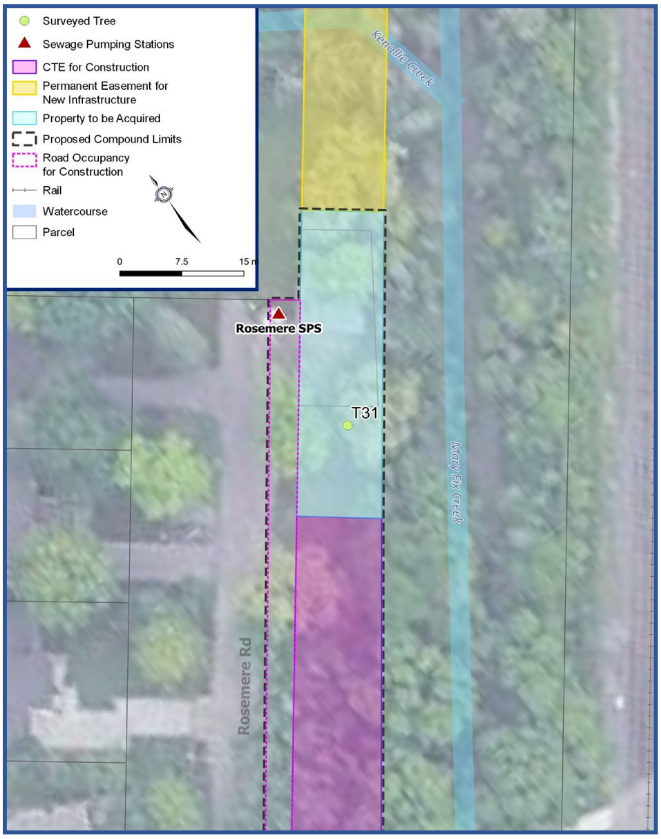


Tree ID	T29
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Pseudoacacia)*
Diameter at Breast Height (cm)	5
Crown Size (m)	2
Overall Condition	Poor

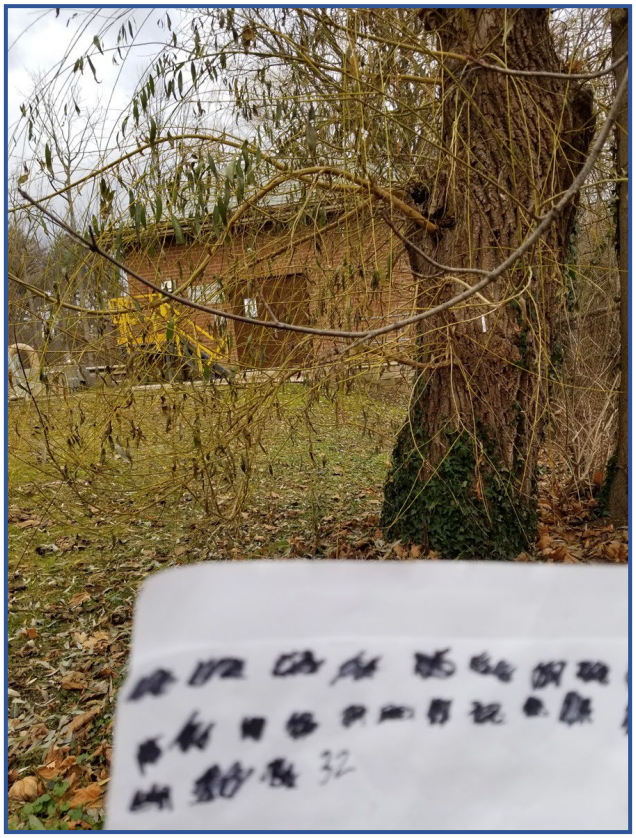


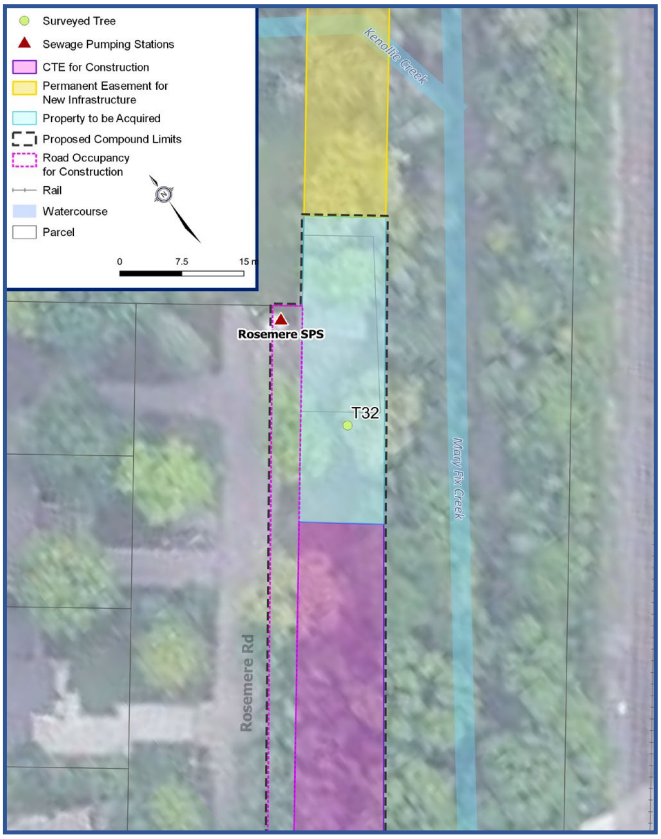


Tree ID	T30
Species Common Name *(Scientific Name)*	Basswood *(Tilia Americana)*
Diameter at Breast Height (cm)	6
Crown Size (m)	4
Overall Condition	Good

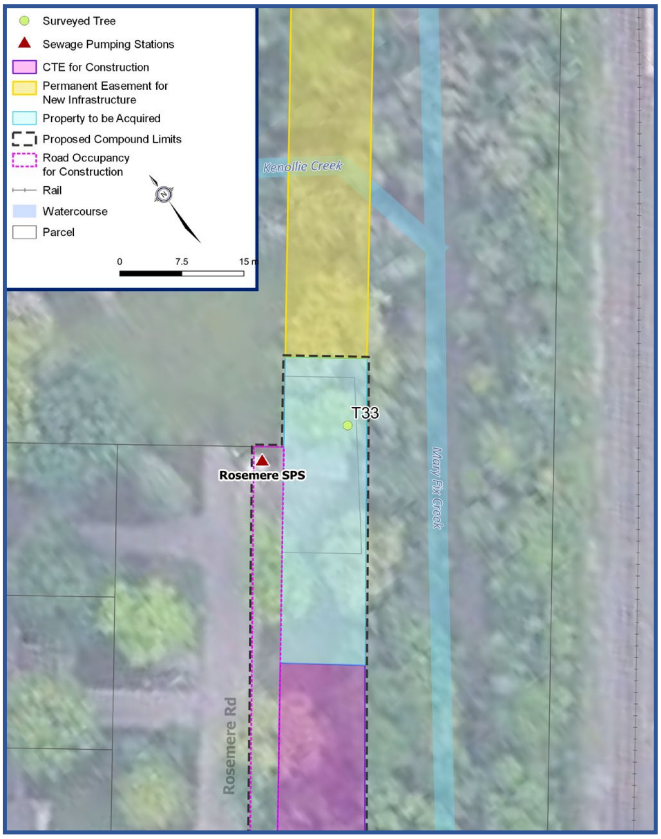


Tree ID	T31
Species Common Name *(Scientific Name)*	Basswood *(Tilia Americana)*
Diameter at Breast Height (cm)	20
Crown Size (m)	8
Overall Condition	Good

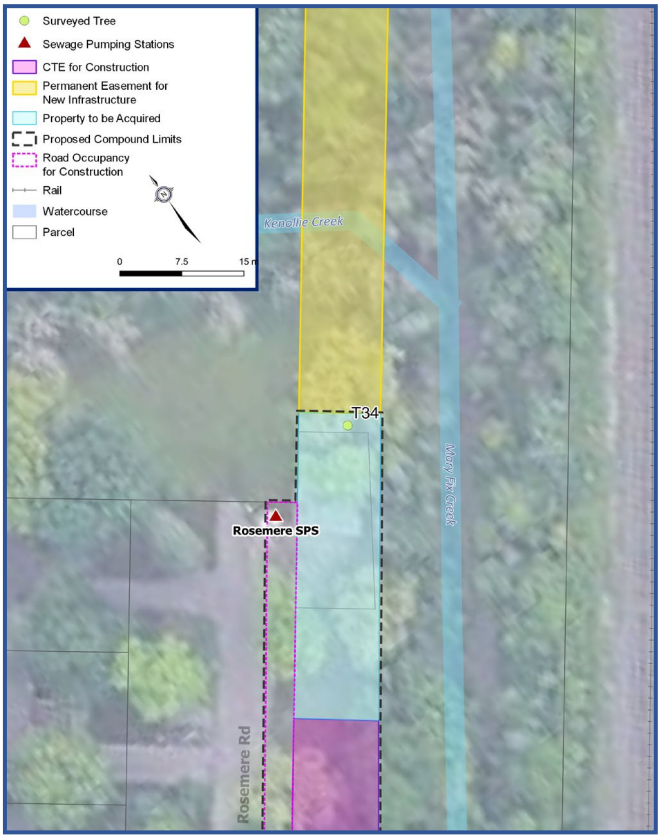




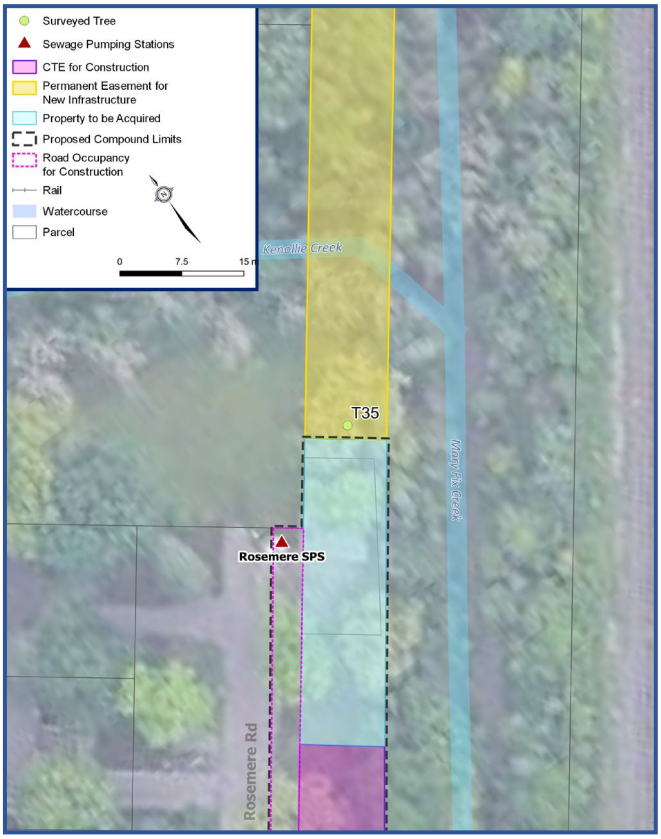
Tree ID	T32
Species Common Name *(Scientific Name)*	Willow Sp. *(Salix Spp.)*
Diameter at Breast Height (cm)	72
Crown Size (m)	0
Overall Condition	Poor



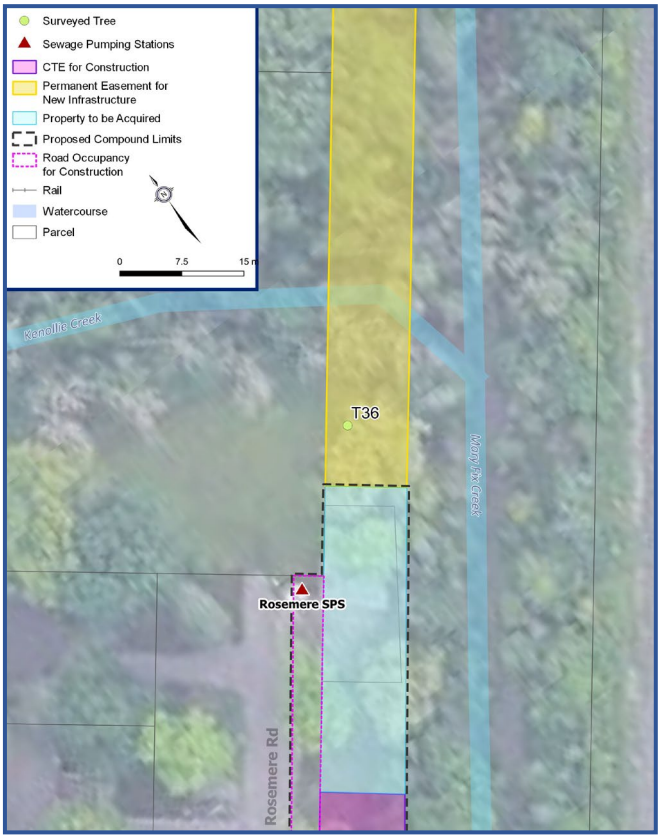
Tree ID	T33
Species Common Name *(Scientific Name)*	Catalpa *(Catalpa Sepciosa)*
Diameter at Breast Height (cm)	53
Crown Size (m)	7
Overall Condition	Fair



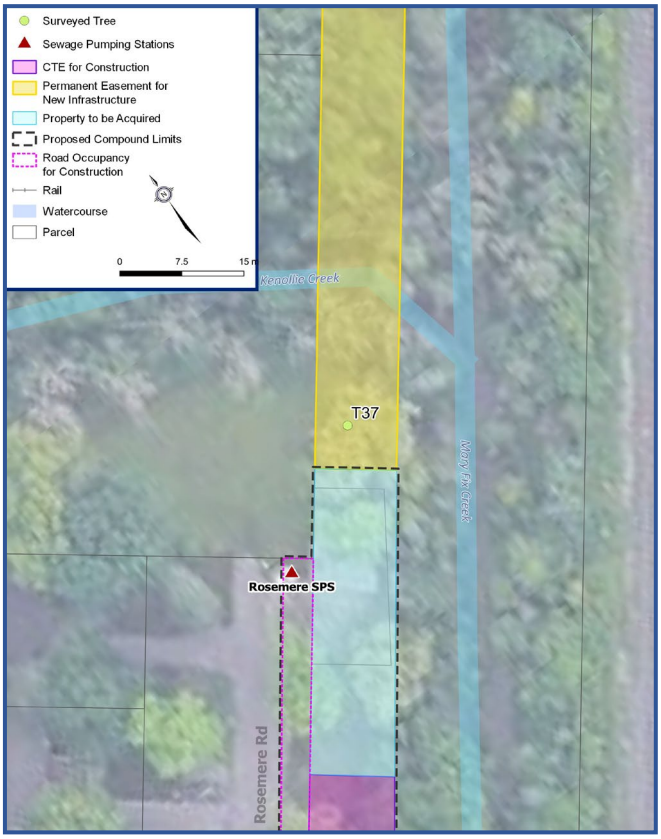
Tree ID	T34
Species Common Name *(Scientific Name)*	Red Maple *(Acer Rubrum)*
Diameter at Breast Height (cm)	8
Crown Size (m)	8
Overall Condition	Fair



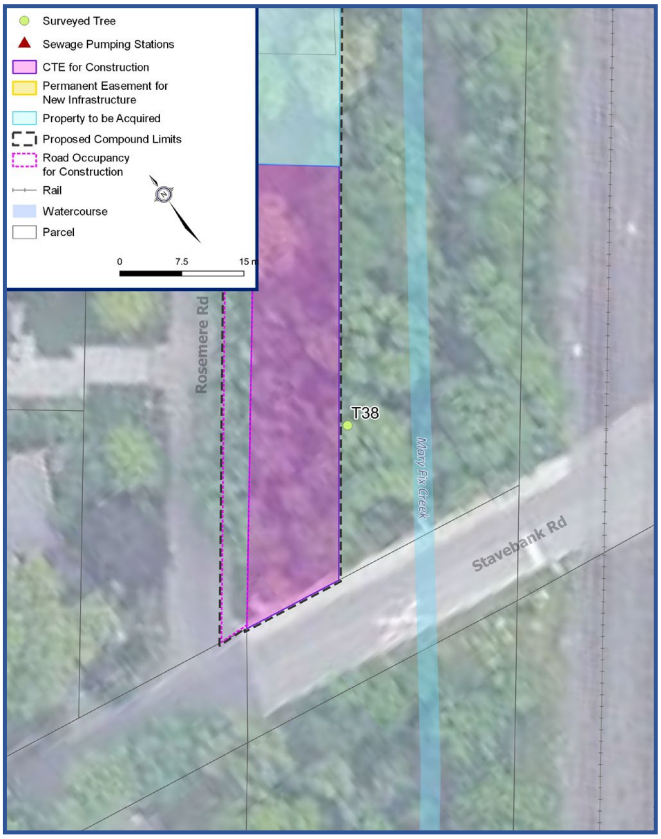
Tree ID	T35
Species Common Name *(Scientific Name)*	Willow Sp. *(Salix Spp.)*
Diameter at Breast Height (cm)	118
Crown Size (m)	12
Overall Condition	Fair/Poor



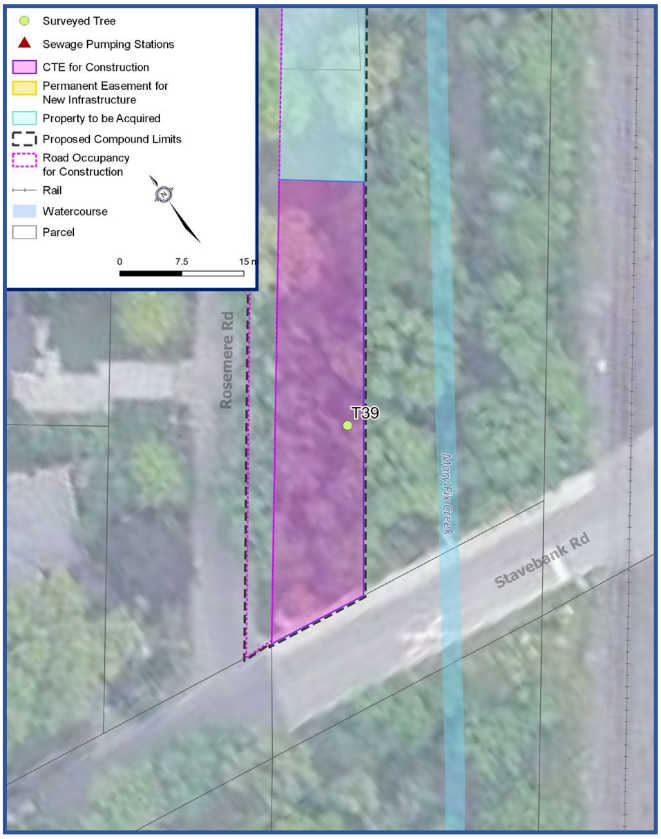
Tree ID	T36
Species Common Name *(Scientific Name)*	Basswood *(Tilia Americana)*
Diameter at Breast Height (cm)	20
Crown Size (m)	6
Overall Condition	Poor



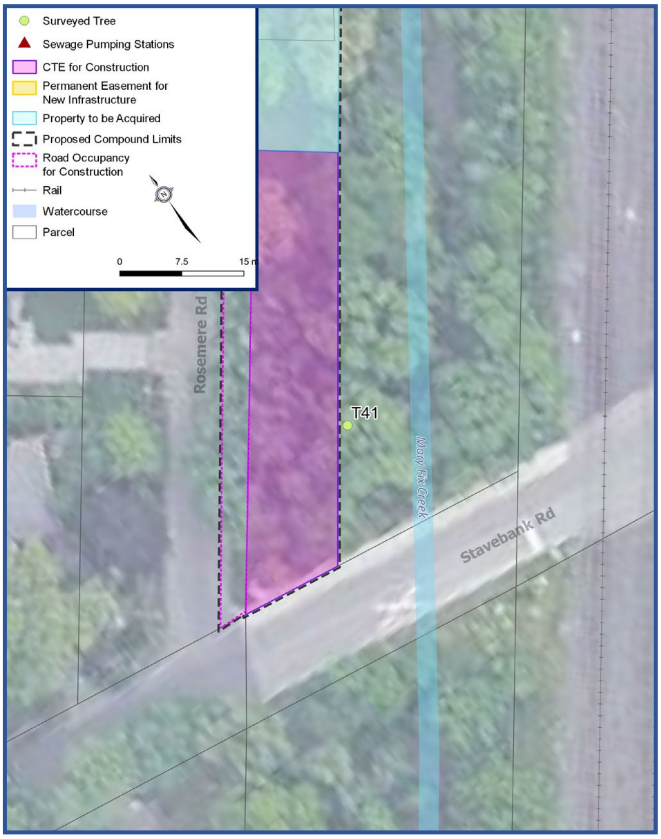
Tree ID	T37
Species Common Name *(Scientific Name)*	Black Cherry *(Prunus Serotina)*
Diameter at Breast Height (cm)	15
Crown Size (m)	6
Overall Condition	Fair



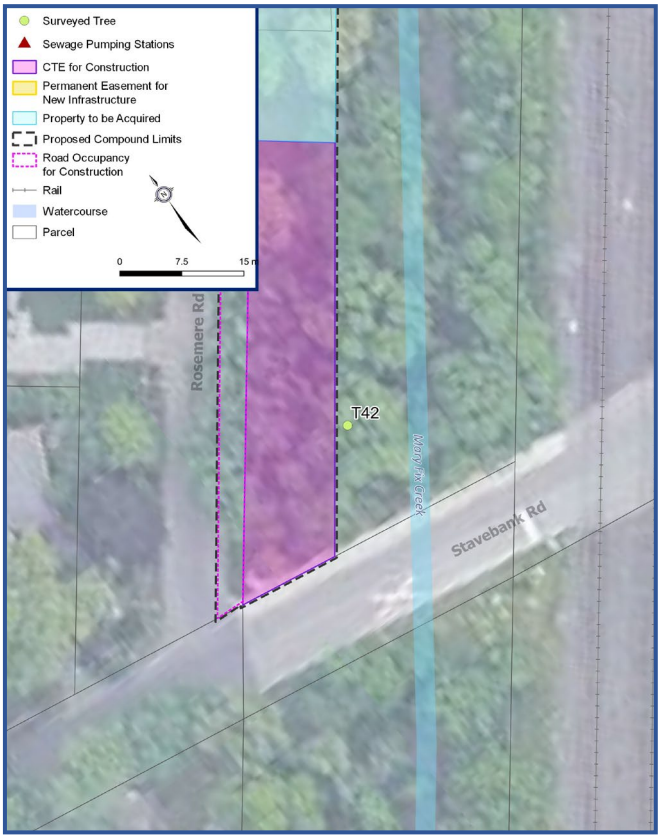
Tree ID	T38
Species Common Name *(Scientific Name)*	Ash Sp.*(Fraxinus Spp.)*
Diameter at Breast Height (cm)	9.5
Crown Size (m)	4
Overall Condition	Poor



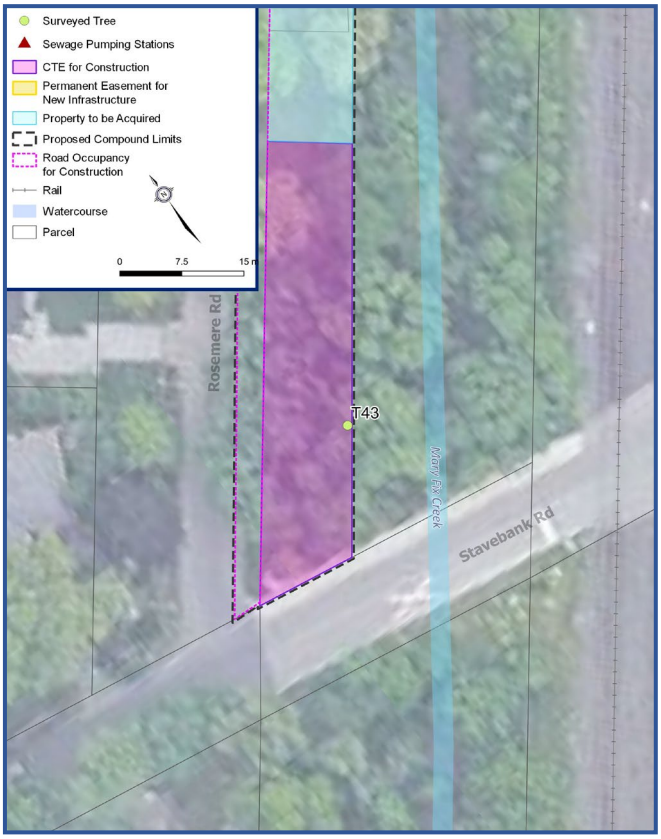
Tree ID	T39
Species Common Name *(Scientific Name)*	Ash Sp.*(Fraxinus Spp.)*
Diameter at Breast Height (cm)	7.5
Crown Size (m)	4
Overall Condition	Good



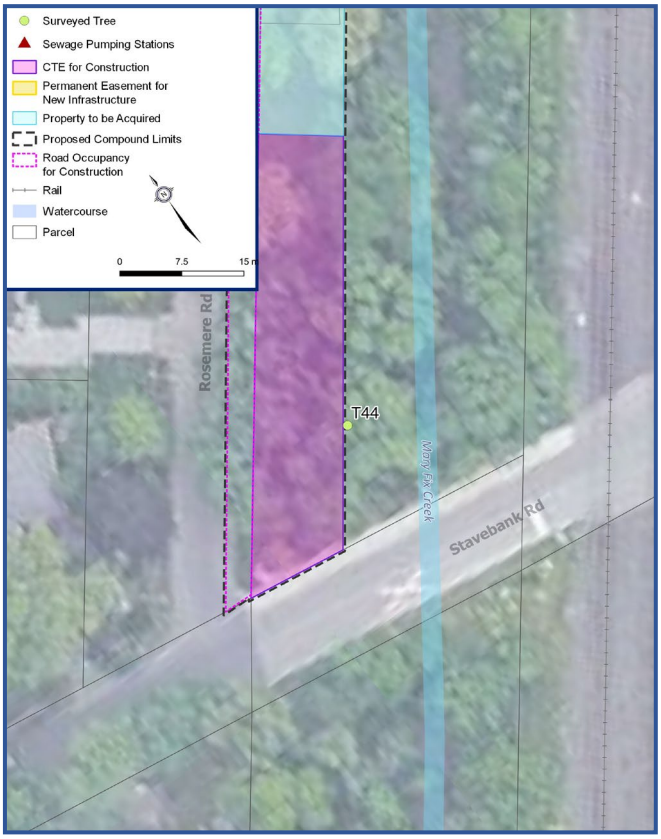
Tree ID	T41
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Psuedoacacia)*
Diameter at Breast Height (cm)	24
Crown Size (m)	4
Overall Condition	Poor



Tree ID	T42
Species Common Name *(Scientific Name)*	Black Locust *(Robinia Psuedoacacia)*
Diameter at Breast Height (cm)	13
Crown Size (m)	2
Overall Condition	Poor



Tree ID	T43
Species Common Name *(Scientific Name)*	Basswood *(Tilia Americana)*
Diameter at Breast Height (cm)	28
Crown Size (m)	5
Overall Condition	Poor



Tree ID	T44
Species Common Name *(Scientific Name)*	Basswood *(Tilia Americana)*
Diameter at Breast Height (cm)	9.5
Crown Size (m)	5
Overall Condition	Poor