

Water and Wastewater

2024–2027 Business Plan
and 2024 Budget

Water and Wastewater.....	1
Executive Summary.....	3
Services we provide:.....	3
Interesting facts about this service:.....	3
Highlights of the Business Plan include:.....	3
Core Services.....	4
Vision, Mission, Goals of Service and Service Delivery Model.....	4
Service Levels and Trends.....	5
Performance Measures and Results.....	6
Awards and Achievement.....	7
The 2024 -2027 Business Plan Outlook.....	8
Planning for the Future.....	8
Finding Efficiencies.....	10
Transforming Our Business with Technology.....	11
Maintaining our Infrastructure.....	13
Proposed Operating Budget.....	14
2024 Operating Budget Pressures.....	15
Staffing Resources to Achieve Level of Service.....	16
2024 Total Expenditures & Funding Source (In \$M).....	17
2024 Budget Risks.....	17
2025 – 2027 Operating Forecast.....	18
Proposed Capital Budget.....	19
2024 Capital Budget Overview.....	19
Proposed Capital Plan.....	22
By Project Classification:.....	22
Budget Requests.....	23

Executive Summary

Mission: Providing Clean Water for Life.

Services we provide:

- Planning, design, construction, operation and maintenance of water and wastewater infrastructure including treatment plants, water transmission & distribution and pumping systems, reservoirs, elevated tanks and wastewater collection systems etc.
- Management of all water and wastewater programs including strategic planning, asset management, inflow and infiltration, regulatory compliance, strategic partnerships, water and wastewater by-law enforcement, spills response, coordination with external Agencies and Utilities and public education.
- Water meter installations and billing services

With a continued focus on quality of service, customer service, asset management, service delivery, and our people and culture, the Water and Wastewater Divisions are poised to continue to provide responsible water and wastewater infrastructure services.

Interesting facts about this service:

- Our water and wastewater infrastructure is one of the largest assets owned and operated by the Region with a replacement value of \$28.5 billion.
- The Region produces on average 600 million litres of safe drinking water and treats 639 million litres of wastewater every day.
- The Region maintains 4,758 km length of watermains and 3,736 km length of sanitary sewer mains.
- We inspect 13,000 hydrants and 276 km of sewer mains every year.
- The Region provides services to 341,370 water accounts and 335,000 wastewater accounts.

Highlights of the Business Plan include:

- Updating the Water and Wastewater Master Plan to accommodate growth to 2051 and reviewing implications of advanced growth related to Bill 23 municipal housing pledges.
- Implementing a long term financial plan for Water and Wastewater
- Aligning business ventures to our 10-year Strategic Plan
- Developing and assessing a Water Environment Federation Utility of the Future Strategic model
- Developing ESG (Environmental Social and Governance) goals and metrics
- Progressing toward ISO 45001 Compliance for Occupational Health & Safety Management system for Water and Wastewater
- Embracing innovation, investing in people and delivering value
- Developing a District Energy system utilizing thermal energy contained in treated wastewater effluent to provide a low carbon energy source to service the future Lakeview Village Development.
- Maintaining service levels by making operating investments, and improving customer service through Lean initiatives

Net Investment (\$000s)	2024	2025	2026	2027
Operating (Peel required billings)	527,314	560,619	596,052	634,385
Capital	1,414,318	1,205,852	1,983,587	2,084,541
Full Time Equivalents	618.9	649.3	669.9	686.5

Core Services

Vision, Mission, Goals of Service and Service Delivery Model

Vision

To deliver a world-class Water and Wastewater service network while respecting the environment and employing resource recovery principles

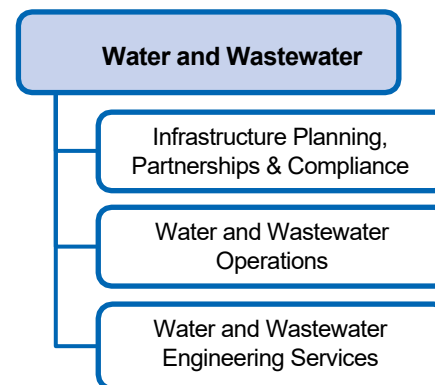
Mission

Providing Clean Water for Life

Goals of Service

1. Deliver value by providing consistent water and wastewater services, while maximizing our assets and meeting the needs of our current and growing community
2. Embracing innovation by seeking opportunities to enhance quality, maximize value and build strong partnerships and create collaborative projects
3. Invest in people by inspiring leadership within all of us that empowers employees to achieve success, while holding each other accountable in a safe and secure working environment
4. Respecting the environment by considering it in all decisions we make and protecting the sources of our drinking water and the natural environment

Service Delivery Model



Service Levels and Trends

Service Levels

The management of infrastructure assets is accomplished through several operational activities; the existing service levels for these activities are summarized below:

Capital Planning: Develop an appropriate 10-year Capital Budget in accordance with Growth Management and lifecycle asset management practices and meet budget preparation and construction timelines. Aligning capital planning to Bill 23 target and the pledges of the local municipalities. Investing in design to address short term readiness for advance growth.

Long-range Planning and Policy Development: Develop and implement appropriate plans and strategies to guide decision-making.

Water and Wastewater Master Plan: The Municipality’s Water and Wastewater Master Servicing Plan is being updated and identifies capital and asset needs which will allow the Region to achieve its growth vision by planning infrastructure for 2051. The plan is aligned to the Region’s Growth Management Plan and includes over \$14 billion of capital projects to facilitate growth and ensure the Region’s water and wastewater assets are maintained in a state of good repair.

Environmental Focus: To ensure compliance with environmental legislation and preserve and enhance the environment and to embrace innovative measures to maximize resource recovery.

Regulatory Compliance: To meet or exceed all regulatory requirements within the water and wastewater environment

Operational Excellence: To meet service levels and our commitment to continuous improvement and build trust and confidence within our community

Trends

Peel continues to mature as a Region. Aging infrastructure, unprecedented growth projections, public demand for safe, reliable and high quality drinking water and the need to balance service levels with affordability pose significant pressures and challenges for this service area. The Water and Wastewater Division, in partnership with Enterprise Asset Management, continues to work on the Asset Management Plans for the Region’s infrastructure to meet the requirements of Ontario Regulation 588/17, *Asset Management Planning for Municipal Infrastructure*.

Financial Sustainability, Inflation and Affordability

- DC exemptions,
- cost and limited supply of materials, labour & construction

Talent Attraction and Retention

- talent scarcity, employee expectations post-COVID
- Peel Dissolution

Expansion of GE Booth water resource recovery facility



Performance Measures and Results

The Region of Peel is committed to delivering services economically and efficiently. The Region's performance measures are used to help assess how well we are doing at achieving our goals and where we need to improve operations. The results also inform decision-making and strengthen accountability.

Below are descriptions of the measures tracked in the Water and Wastewater Balanced Scorecard.

Financial Measures: Average water treatment and transmission cost per million litres of water produced and average wastewater treatment and collection cost per million litres of wastewater treated are measures of the municipality's ability to manage cost pressures associated with aging infrastructure, while providing consistent services levels. Percentage of water and wastewater rate compared to GTA average is a measure of Peel's ability to deliver water and wastewater service in a competitive manner.

Average water treatment and transmission cost: The average cost for water treatment and transmission per million litres of water supplied. For 2022, the cost was \$462.71 per million litres.

Average wastewater treatment and collection cost: The average cost for wastewater treatment and collection per million litres of wastewater treated. For 2022, the cost was \$320.08 per million litres.

Percentage of water and wastewater rate compared to GTA

average: Peel's water and wastewater rate for an average household as a percentage of the neighbouring municipalities in GTA, including city of Toronto, York, Halton and Durham. For 2023, the percentage was 64% of, or 36% lower than the GTA average.

Customer Measures: The Region continues to have the lowest Water and Wastewater rates in the GTAA. Lower rates have provided affordability to the 1.5 million residents and over 175,000 businesses located within the Region of Peel.

Employee Measures: The Corporate Employee Engagement Survey is completed once every three years and was recently completed in 2021.

Overall job engagement indicates the extent to which employees feel engaged in decision-making at the municipality.

Employee satisfaction measures the extent to which employees value, enjoy, and believe in what they do.

Business Process Measures: Percentage of Water and Wastewater infrastructure in "good" condition or better measures the Region's ability to manage lifecycle asset management programs for Water and Wastewater.

Awards and Achievement

Awards

2023 Climate Action Award from Ontario Water Works Association and Water Environment Association of Ontario (OWWA/WEAO) for collaboration with Lakeview Community Partners to design and construct a district energy system for a new development for over 16,000 residential units using wastewater effluent. .

2023 & 2021 WEAO George W. Burke Award for Health and Safety recognizing the positive safe workplace results from the implementation of an Occupational Health and Safety Management System in accordance with ISO 45001.

2023 OPWA Project of the Year Award for the GE Booth Resource Recovery Facility Site Preparation Contracts for New Plant 1..

2023 Infrastructure Award of Excellence from the Greater Toronto Sewer and Water Construction Association (GTSWCA).

Peel's Hydrant Hysteria Women's Team won first place at the American Water Works Association 2023 Annual National Conference and Exhibition and are invited to defend their title at the 2024 event.

2023 Poster Session presenter at International District Energy Association National Conference.

Achievements

Partnering with Lakeview Community for the construction of a District Energy system using wastewater effluent contributing to environmental sustainability.

Partnering with Health in the Provincial Wastewater Surveillance Program for the detection of COVID 19 in Wastewater.

Every year the Ministry of the Environment, Conservation and Parks performs comprehensive inspections of all seven municipal drinking water systems in the Region. The most recent complete inspection report rating is 100% demonstrating excellent performance.

Achieved compliance with first and second phases of new excess soil regulations. This work ensures the proper management of excess soil on Regional construction sites; recognizing excess soil as a valuable resource; and preventing the improper disposal of construction soil, that inhibits the contamination of clean sites and reduces illegal dumping.

A new water and wastewater billing rate structure was approved by Council in 2022 and 2023 which, based on industry best practices, will provide more customer equity along with revenue and bill predictability. The new rate structure also was endorsed with the generation of a long term reserve to increase funding for state of good repair projects.

Council endorsed water bill adjustment pilot program, which will help residents address the financial burden resulting from an unexpected high-water bill due to a leak. Peel is also embarking on an AMI (Automated Metering Infrastructure) project to improve customer experience, improve the ability to address high water bills and improve customer usage data for future planning purposes.

The 2024 -2027 Business Plan Outlook

Planning for the Future

Intensification vs Green field development

Much of the infrastructure planning in the Water and Wastewater is based on the urban planning goals of the local Municipality and Provincial population allotments under Places to Grow legislation.

Bill 23 & Housing Pledges - The current Master Servicing Plan will address the increasing rate of intensification which is quickly becoming an emerging issue in Peel and other cities. Intensification comes with many benefits including more effective use of transit, jobs and tax revenue. However, adding new infrastructure into these areas comes with challenges particular in disruption to existing traffic, property acquisitions and coordination with external agencies and Utilities. In attempt to minimize Peel's financial exposure and to ensure Peel is not over building infrastructure in new green field areas, the Divisions will align the planning and construction with Regional growth plan.

In 2023 Water and Wastewater have invested significant time and expertise in the assessment of infrastructure expansion required to service the Province's Bill 23 – *More Home Built Faster Act*. Subsequent to the Act the local municipalities endorsed alignment to the Act in March of 2023 with an anticipated growth plan of 246,000 homes by 2031. The advanced growth planned under the Act will place significant pressure on the Utility in the next 8 years to plan, design and construct infrastructure to service a growth rate 20 years faster than that proposed under the Region's 2051 Official Plan.

Asset Management

In 2017, the Province of Ontario introduced Ontario Regulation 588/17, *Asset Management Planning for Municipal Infrastructure*, which came into effect on January 1, 2018. The regulation required all municipalities to prepare and publish the following: a Strategic Asset Management Policy by July 1, 2019; enhanced Asset Management Plans for core infrastructure – which includes Water and Wastewater– by July 1, 2021; and enhanced Asset Management Plans for all remaining non-core assets by July 1, 2023.

On June 5, 2019, the Region's Strategic Asset Management Policy was approved by Council and in 2020, the Water and Wastewater Division, in partnership with the Enterprise Management Office, has worked towards completing the Asset Management Plans for the Region's Water and Wastewater Infrastructure.

Service Delivery

Bill 112 *Hazel McCallion Act* and Transition – in 2023 the Province of Ontario tabled and approved Bill 112 which will see the dissolution of the Region of Peel. While many models are available for the final structure of the Utility post dissolution, the Transition Board will provide recommendations to the Province. Staff remain committed to the viability of the Utility regardless of the ultimate governance model.

The municipality has grown substantially over the last 20 years and development continues to intensify. In addition, demand for Water and Wastewater maintenance and higher service levels is increasing. In order for the Water and Wastewater Service Area to meet maintenance and operational service levels in the coming years, a Maintenance Master plan will be developed to ensure assets are being maintained at an appropriate level in both a short and long term timeline.

To ensure infrastructure projects are delivered efficiently and in a timely manner, staff collaborated with Toronto and Region Conservation Authority and Credit Valley Conservation Authority to establish an agreement for expedited review and enhanced support of environmental assessments and permits.

Climate Change

Climate change continues to generate more frequent and intense localized storms. Stormwater and runoff has a significant impact on existing wastewater conveyance infrastructure. Inflow of stormwater into the sanitary sewer system and infiltration into defects will continue to put pressure on the performance of the sanitary sewer system.

Currently the programs are focusing on the top inflow and infiltration areas to reduce the risk of basement flooding while also conducting sewer condition assessment, rehabilitation and expansion to address excess flows. In addition, the program has developed a committee with the local municipalities to address cross connections between the sanitary and stormwater system and systematically address capital needs.

The programs are moving forward with construction of the East-West diversion sewer to manage excess flows between the Region's water resource recovery facilities during severe rainfall events.

As approved by Council, the program is working with Enwave Energy Corporation ("Enwave") to facilitate a District Energy ("DE") system to service the future Lakeview Village Development. The DE system will utilize thermal energy contained in treated wastewater effluent from the G.E. Booth Wastewater Treatment Facility to heat and cool buildings within the Lakeview Village Development.

The DE system represents a significant partnering opportunity and is strategically aligned to the Region's Climate Change Master Plan. In addition to this project the Region is completing a thermal energy strategy to research alternative options for utilizing thermal energy from wastewater system wide. As part of the study a policy document will define special policy areas for thermal energy usage from wastewater. The Region is collaborating with local municipalities on long term usage of thermal energy from wastewater from landfill for sustainable reuse. This project represents an estimated 9,200 to 11,300 tonnes of avoided greenhouse gases.

The Jim Tovey Lakeview Conservation Area is the creation of a 64-acre natural waterfront park adjacent to the G.E. Booth Wastewater Treatment Facility. Construction is expected to be completed by 2025. The park will feature large wetlands, meadows, beaches and forests. Excess fill generated from Region of Peel capital projects are delivered to this site for sustainable reuse. As of Aug 2023, over 2,000,000 m³ of excess soil and concrete rubble have been diverted from landfill for sustainable reuse. This represents an estimated 9,200 to 11,300 tonnes of avoided greenhouse gases.

In 2022 the program also developed a pilot project which successfully diverted significant quantity of biosolids to beneficial re-uses utilizing services of third parties. A detailed assessment of the program costs and benefits is underway.

The program is also actively reducing greenhouse gas emissions by investing in green fleet technology and the use of alternative fuel sources. Currently, the Region has 90 green vehicles in its fleet (Hybrid and fully electric) and has saved 230 tonnes of CO₂e since January, 2023 by expanding the use of lower-carbon fuel alternatives (e85) in non-green vehicles. This equates to taking 105 commuter cars off the road in Ontario annually.

Finding Efficiencies

Continuous Improvement

The objective of the Region's Continuous Improvement Program is to optimize service delivery and maximize value for tax dollars spent. The completion of continuous improvement initiatives positively impacts client experience, employee engagement, cost savings and cost avoidance.

Highlights of the many projects and improvements completed include:

- The program is actively participating in Industrial Conservation Initiative (ICI) to look for opportunity to obtain lower energy rates from the Province by reducing energy consumption at water and wastewater facilities on peak demand days. In 2023 and 2024 cost avoidance of \$8.6 million and \$7.5 million is anticipated respectively. Continuous efforts are required to ensure they are materialized.
- New Coring Method of water service box repair and restoration achieves significantly greater customer satisfaction and annual cost savings of approximately \$100,000 compared to the old method of square saw cutting method which requires expensive restoration.
- Remote real-time groundwater monitoring and data collection reduces the frequency of on-site visits to perform manual measurements resulting greater productivity and cost avoidance, improves employee safety and eliminates winter season data gaps.
- New Development Application Facilitator role helps streamline the engineering review process and helps prevent delays with development applications and meet Bill 109 requirements.



Transforming Our Business with Technology

Technology plays a critical role in the delivery of efficiencies for the Water and Wastewater Service Area. Through updating existing technology systems and bringing new systems online, the Water and Wastewater Service Area will continue to improve service delivery and focus on increasing efficiencies, for internal business processes and for our residents as well.

Achieving Cost Savings and Driving Efficiencies:

Public Works Water Resource Management Dashboard

- The Dashboard provides a “one window” approach for all permits-to-take-water, construction project dewatering permits, hydrogeological and geotechnical reports, accessible by all staff which saves time, improves construction project planning and saves project costs.

Process Automation Asset Management Condition Monitoring

- Real-time condition monitoring of the process control and automation equipment, which includes hundreds of assets distributed across the entire geography of Peel, enables staff to perform troubleshooting and system function checks remotely and respond quickly to potential problems. This innovation improves staff productivity (cost avoidance) and improves system reliability.

Leveraging Technology to Improve Service Delivery:

- GIS based work deployment was developed for our closed circuit television inspection team. The work is being dispatched based on work location resulting in more efficient use of staff time. Projected work output for the year results in almost doubling the kilometers of pipeline inspected per year.

Real-time Algae Monitoring

- State-of-the-art on-line continuous analyzers are installed at each water treatment plant to enable operators to optimize treatment processes and provide advance notice to allow process adjustments and prevent equipment failure and potential service interruptions from large influxes of filamentous algae in Lake Ontario.

Real-time Condition Monitoring of Critical Pipelines

- Real-time condition monitoring using Acoustic Fiber Optics (AFO) is used on the Hanlan 2400mm diameter water transmission main which is one of Peel’s most critical pipelines. AFO provides detailed pipe condition information in real-time while the pipe is in service. This information enables evidence-based asset management decisions and helps prevent catastrophic failures.
- This approach allows the Region’s SOGR team to (a) have a better understanding of the network’s degradation over time, (b) tailor inspection plans and replacement programs and, (c) optimize water main investments in order to provide an improved level of service. An AI/ML-approach has aided our team in planning and optimizing strategic investments in the water distribution network with an aim to reduce impact to business and residents and provide a reliable service.

Leveraging Technology to Enhance Customer Service:

- Technology is also being leveraged to enhance customer service for Regional construction projects. The Capital Projects in Peel website was launched so residents and businesses can easily find information on current and future construction projects in their areas. Hand in hand with this, the Customer Service for Construction Projects program was launched to increase residential and business awareness and understanding of construction project impacts and accuracy of expectations.

This program aims to improve the customer experience and save Regional staff time by reducing the number in inquiries from residents and businesses.

Maintaining our Infrastructure

To ensure our infrastructure is responsibly maintained, we must define a reasonable state of good repair and set priorities to maintain existing service levels. This involves addressing growth concerns and developing an economic lens for infrastructure.

Highlights of the major state of good repair projects for the 2024 Capital Budget include:

Replacement of watermains in Mississauga, Brampton and Caledon: Replacement of water mains, system improvements and looping of dead-end mains to improve water quality and reliability of the distribution system.

Sewage Pumping Station Rehabilitation Program (Phase 2): Replacement of sewage pumping stations in the lake-based wastewater collection system, as identified from the condition assessment program

Upper Cooksville Creek Sanitary Trunk Sewer Rehabilitation: from North of Eglington Avenue West to Burnhamthorpe East

Local Collection System Repair and Replacement: Funding for sanitary sewer repairs, replacements and relining including alignment of projects with area municipalities and other divisions.



Proposed Operating Budget

This part of the Business Plan sets out the financial resources required to deliver the proposed 2024-2027 Business Plan. Information is provided by major expenditures and revenue. The costs to maintain existing service levels and operationalize prior decisions are identified in the base budget changes separately from proposed changes. The Peel required billings for 2023 was \$488.2 million and the required billings for 2024 is \$527.3 million

Peel Required Billings \$527.3 million (Net Expenditure before billings: \$572.1 million)

Description	2022 Actuals	2023 Approved Budget	2024 Proposed Budget	\$ Change Over 2023	% Change Over 2023
Operating Costs	129,311	134,006	143,647	9,641	7.2%
Labour Costs	44,724	49,873	54,296	4,423	8.9%
Reserve Contributions	282,319	294,596	321,534	26,938	9.1%
Debt Charges	108,437	108,433	114,914	6,481	6.0%
Facility, IT, HR and other support costs	149,568	157,818	162,762	4,944	3.1%
Operations Support Cost	5,341	5,819	5,624	(195)	(3.3)%
Recoveries	(89,808)	(94,371)	(101,472)	(7,101)	7.5%
Total Expenditures	629,892	656,174	701,305	45,131	7.0%
Grants and Subsidies	(159)	-	-	-	-
Fees and Services Charges	(8,190)	(6,209)	(6,767)	(558)	9.0%
Transfer from Development Charges	(108,437)	(108,433)	(114,914)	(6,481)	6.0%
Contributions from Reserves	2,830	(4,500)	(1,945)	2,555	(56.8)%
Operations Support Revenue	(5,341)	(5,819)	(5,624)	195	3.3%
Other Billings	(41,398)	(42,995)	(44,740)	(1,745)	4.1%
Total Revenues	(160,695)	(167,956)	(173,990)	(6,034)	3.6%
Total Net Expenditure (Peel required billings)	\$469,197	\$488,217	\$527,314	\$39,097	8.0%

Note: May not add up due to rounding

2024 Operating Budget Pressures

\$'000	Net Expenditures Before Other Billings	Other Billings	Peel Required Billings 2024 vs 2023	
2023 Revised Cost of Service	531,212	42,995	488,217	%
Cost of Living/Inflation				
Labour costs/Goods and services	3,695	-	3,695	
Base Subsidy/Recoveries				
Reserve contribution from York	1,445	-	1,445	
External billings adjustment	-	(1,745)	(1,745)	
Cost Mitigation¹				
Miscellaneous Savings	(764)	-	(764)	
Other Pressures				
Electricity cost increase	1,174	-	1,174	
Chemical cost increase	3,369	-	3,369	
Allocation of growth in corporate sustaining costs	895	-	895	
Ontario Clean Water Agency (OCWA) contract cost	1,862	-	1,862	
Managing risk to increasing commodity price	2,700	-	2,700	
Base Budget Changes Subtotal	14,376	(1,745)	12,631	
Service Level Demand²				
Infrastructure levy-5.3%	25,494	-	25,494	
22 new FTEs and 1 Contract to support Water and wastewater capital and operations (80% capital recovery) including 2 FTEs for capital acquisitions	604	-	604	
2 new FTEs to support facility growth (40/60 between tax and utility)	134	-	134	
1 new FTE to support workforce management in Water and wastewater	137	-	137	
5 new FTEs to meet IT requirements (60% capital recovery and the rest with 40/60 between tax and utility)	98	-	98	
Service Level Changes Subtotal	26,467	-	26,467	
Total 2024 Budget Change	40,843	(1,745)	39,098	
2024 Proposed Budget	\$572,055	44,740	527,314	8.0%

Note: May not add up due to rounding

Operating budget pressure notes:

Cost Mitigation¹

- Miscellaneous savings of \$764,100 resulting from the ongoing review of budgets and process improvements; these reductions will not impact service levels.

Service Level Demand²

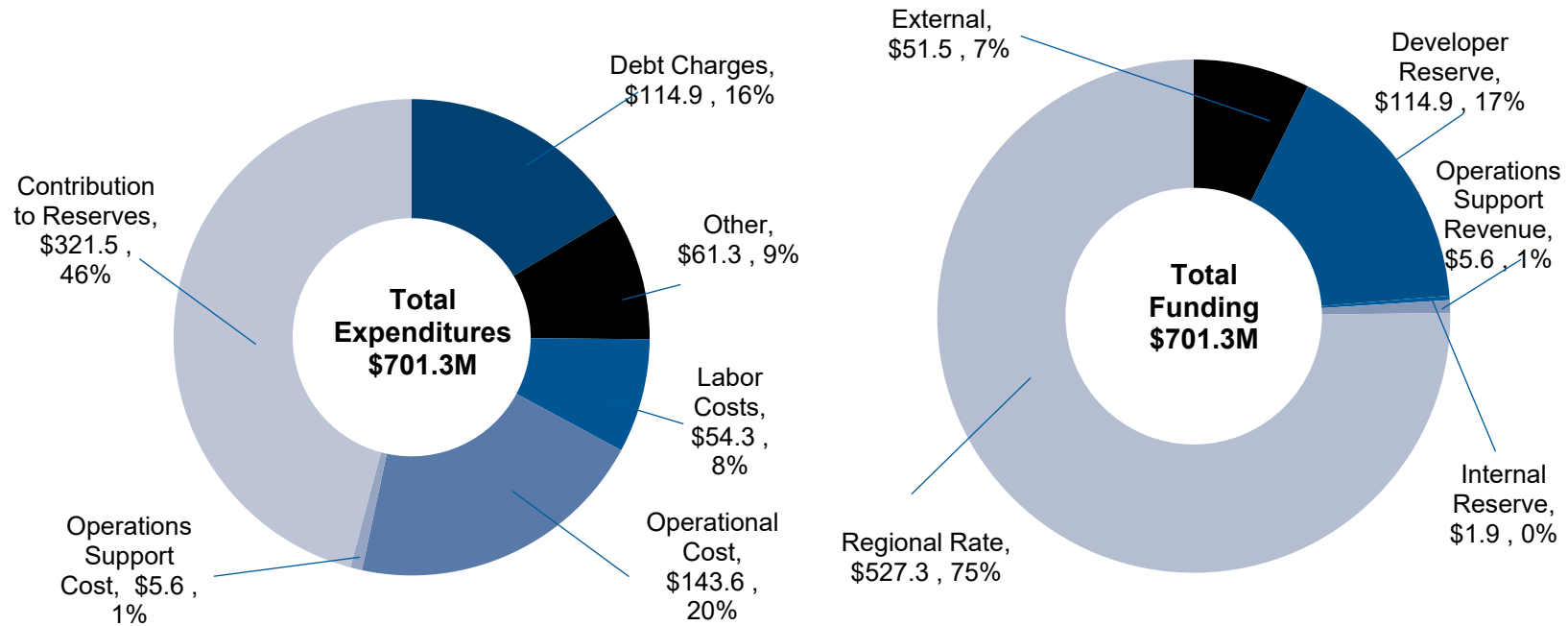
- No significant changes in service level
- 5.3% infrastructure levy to maintain condition and performance of water and wastewater infrastructure
- Twenty three new regular FTE requests to meet demands for on-going construction project support related to system growth and state of good repair activities, as well as to support linear operations. 80% of the costs are attributable to and recoverable from capital.
- Two new regular FTE requests at Facility management to support growth in Regional remote sites. This will allow the division to maintain existing service levels, while reducing additional costs associated with overtime and temporary staff. This FTE is split at 40/60 between Tax and Utility services.
- One new regular FTE request for workforce management to support various corporate projects and initiatives in water and wastewater
- Five new regular FTE requests for IT staff to support the departmental IT roadmap. This FTE is split at 40/60 between Tax and Utility services

Staffing Resources to Achieve Level of Service

Sub Service	2023	2024	2025	2026	2027
Infrastructure Planning, Partnerships & Compliance	75.5	80.9	83.8	84.1	83.2
Water and Wastewater Operations	390.2	402.7	423.7	438.6	450.2
Water and Wastewater Engineering Services	125.9	135.3	141.7	147.2	153.0
Total	591.7	618.9	649.3	669.9	686.5

Note: Staffing resources are regular positions (Full Time Equivalent, FTE). Resources are inclusive of Public Works support services. The resources projected in the outlook do not yet encompass the full impact of Bill 23.
May not add up due to rounding.

2024 Total Expenditures & Funding Source (In \$M)



2024 Budget Risks

- Budget has been developed assuming Peel's services will continue to be provided, notwithstanding any governance decisions resulting from Bill 112
- Uncertainty around water consumption volumes including unpredictable weather conditions
- See additional risks from the capital and operating budgets further on in this section

2025 - 2027 Operating Forecast

	Budget			Forecast					
	2023	2024		2025		2026		2027	
	\$'000	\$'000	%	\$'000	%	\$'000	%	\$'000	%
Net Expenditure	531,212	572,055	7.7%	606,766	6.1%	642,966	6.0%	681,922	6.1%
Other Billings	(42,995)	(44,740)	4.1%	(46,147)	3.1%	(46,915)	1.7%	(47,537)	1.3%
Peel Billings	488,217	527,314	8.0%	560,619	6.3%	596,051	6.3%	634,385	6.4%
Average Combined Rate Increase			6.8%		5.6%		5.9%		6.0%

Note: May not add up due to rounding

Overall, the utility rate programs are forecasting an average combined annual rate increase of 6.1% for the years 2024-2026. The year over year increases are subject to several key assumptions such as OCWA contractual cost, chemical prices, electricity rate regulations, water consumption seasonality as well as the investment required to maintain infrastructure. The longer term rate increases are being reassessed and will be informed by the utility rate review expected to be completed in 2023.

Subject to the successful completion of the necessary billing system upgrades, the newly sanctioned water and wastewater rate structure, detailed in Regional Council Resolution 2022-430 listed on the May 12, 2022 agenda "Long-Term Utility Financial Plan Rate Structure," is scheduled for implementation on April 1, 2024. It is important to note that the impact on individual consumer sectors will differ, resulting in unique adjustments compared to the overall rate increase.

Proposed Capital Budget

Capital Budget: \$1,414.3 million (Ten Year Plan: \$14,530.2 million)

2024 Capital Budget Overview

The following table provides a summary of the Water and Wastewater Service planned capital project activity for 2023, including funding sources for both new capital project requests in 2024 and projects carried forward to 2024.

Capital Plan By Funding Source	Carry-forward from Prior Years (WIP) (\$'000)*	2024 Capital Budget (\$'000)	Total Capital in 2024 (\$'000)
DC Growth	1,110,677	1,016,836	2,127,513
Externally Funded	60,712	10,467	71,179
Non-DC Internal	800,999	387,014	1,188,013
Total Expenditures	1,972,388	1,414,318	3,386,706
# of Projects	644	146	790

Existing Capital Projects - \$1,972.4M

- \$1,100.7M for DC Funded Growth projects including East-to-West Diversion Sanitary Trunk Sewer, , East Brampton Transmission Main Twinning, Central Brampton Sub-Transmission Main, Zone 6 Transmission Main & Reservoir, GE Booth Construction and Clarkson Biosolids Expansion
- \$801.0M for State of Good Repair projects including Replacement of Watermain projects, Victoria Yard Replacement, Local Wastewater Collection System Repairs, System improvements in Souwthwest Mississauga and Hanlan Transmission Maintenance
- \$60.7M for External funded projects including the Downtown Brampton Sanitary Sewer and Hurontario/Main Street Light Rail Transit, Hanlan Transmission Watermain and the Jim Tovey Lakeview Conservation

- Remaining Work in Progress (WIP) amount includes unspent budgets that have been committed through Purchase Orders, Vendor Contract agreements and with a planned commitment within the next twelve months. Some projects have been adjusted to align with the regional growth projection and DC revenue forecast including a significant amount of projects which have been deferred but are included in WIP. To address increased growth demands projects which were previously deferred are under review and will be returned to the capital plan subsequent to coordination requirements and resource availability.

2024 Capital Budget - \$1,414.3M

Key highlights:

- \$459.6M for wastewater collection main replacement and construction
- \$384.2M for water main replacement and construction
- \$272.5M for expansion of Water Resource Recovery Facilities
- \$97.7M for pumping station expansion, rehabilitation and water treatment plant equipment replacement
- \$59.8M for condition asset and replacement
- \$34.1M for water meter replacement, vehicle and Gas Powered equipment upgrades and technology initiatives

See Appendix I for details.

2024 Budget Risks

- Budget has been developed assuming Peel's services will continue to be provided, notwithstanding any governance decisions resulting from Bill 112
- Competitive or limited resource availability given the influx of growth and construction as stipulated in Bill 23 – *More Homes Built Faster Act, 2022*
- Volatility of Construction Price Index and Consumer Price Index impacting the proposed budgets in the 2024 Capital Plan
- Increased resources required to execute growing capital plan are not included in the plan and a project to review capital delivery implications is proposed for 2024
- Short Term State of Good Repair reserve contributions do not match Corporate Asset Management contribution requirements in a 3 year window

Development Related impacts:

- Majority of Construction Funding has not been included in the 2024 10-year capital plan
- Intent is to develop key infrastructure projects for “shovel ready” plan pending local municipality Official plans
- Funding for construction will be requested upon Priority identification and/or completion of design
- Key major infrastructure “spine” projects and major Water and Wastewater Treatment projects as per the ongoing Master Plan are not included in the 10-year capital plan

- Property Acquisitions for expansion needs are not included in the plan and may have significant impacts on budget requirements
- No additional York Agreement Projects are included in the plan
- External Coordination projects – Future coordination projects with entities such as Metrolinx are not included in the Capital Plan
- Strategic Projects such as Thermal Energy projects – GTAA, Mississauga Downtown, Lakeshore are not included

Operating Impact of 2024 Capital Budget

- OCWA operations and maintenance fee increase as new facilities are brought on line
- Additional operations resources will be required in 2024 and beyond as capital projects are delivered and placed into service
- Assessment of resource impacts due to high growth are not included in the plan subsequent to detailed study on long term Operating needs
- Capital impact on Operations are not included in the plan
- New capital maintenance needs
- Internal (Support Services) impact from high growth plan such as impacts in Purchasing, Finance, Property, Legal may all be impacted by high capital program and are not included in the plan
- External Agency impacts based on high growth plan have not been included in the plan

Proposed Capital Plan

2024 - 2033 10-Year Capital Plan - \$14,530.2M

By Project Classification:

State of Good Repair \$3,031M	DC Funded Growth \$10,740M	Non-DC Funded Growth & Other \$759M
--	---	--

Key Highlights:

- \$4,740.8M for wastewater collection main construction and replacement
- \$4,081.2M for water main construction and replacement
- \$2,088.2M for water treatment plant and pumping station expansion & rehabilitation
- \$1,943.6M for expansion of Water Resource Recovery Facilities
- \$797.5M for Condition Asset and Replacement
- \$165.5M for Operation Support facility expansions, equipment upgrades and technology initiatives

See Appendix II for details.

Budget Requests

This table presents the costs by Budget Request for proposed new initiatives. Each BR is numbered. Detailed descriptions of the budget requests can be found in the pages following the table.

Proposed Initiative	Division	Budget Request #	FTEs Requested	Contract FTE Requested	Net Operating Impact \$	Capital \$
Increase in number of front line Operators and foreperson	Water	21	6.0	-	U - 368,021	-
Resources to support growth in Public Works Facilities	Operations Support	22	2.0	-	U - 133,913 T - 89,276	-
5 Resources required for Public Works Digital Service Team to execute the Public Works Information Technology Roadmap	Operations Support	23	5.0	-	U - 97,628 T - 65,085	-
Workforce management supporting the growth of Water and Wastewater initiatives	Operations Support	24	1.0	-	U - 136,718	-
Technical Analyst for Locates program	Wastewater	25	1.0	-	-	-
Program Manager - Water Resource Planning	Water	26	1.0	-	U - 84,809	-
Advisor - Water Hydraulic Modelling Program	Water	27	1.0	-	U - 77,209	-
Project Manager - External Agency & Easement Encroachment Review	Water	28	1.0	-	U - 74,709	-
Project Managers - Infrastructure Planning and Studies	Water	29	1.0	1.0	-	-
Project Manager to support the Office of the Director	Wastewater	30	1.0	-	-	-
Backflow Prevention Inspection staff growth-Inspector	Water	31	2.0	-	-	-
Technical Analyst for Engineering Review	Development Services	33	1.0	-	-	-
Project Manager for Engineering Review	Development Services	34	1.0	-	-	-
Project Manager to support State of Good Repair (SOGR) for Water and Wastewater infrastructure	Water	35	1.0	-	-	-

Project Manager to manage projects at the wastewater treatment plants	Wastewater	36	1.0	-	-	-
Technical Analyst to support the Wastewater Collection and Conveyance capital works team	Wastewater	37	1.0	-	-	-
Project Manager support for Engineering Services - Wastewater	Wastewater	38	1.0	-	-	-
Land Acquisition to Support Accelerated Growth (Water and Wastewater)	Wastewater	78	2.0	-	-	-
Building Information Modeling implementation	Operations Support	122	-	-	-	3,500,000
TOTAL UTILITY (U)			30.0	1.0	973,007	3,500,000
TOTAL TAX (T)					154,361	

Budget Request #: 21

Proposed Initiative	Department	Division	Service Area
Increase in number of front line Operators and foreperson	Public Works	Water	Water and Wastewater

Description of Budget Request

As the size and complexity of our water and wastewater systems have continued to increase over the past 10 years, the first time operators were added was via the 2023 budget. This budget cycle we are looking to increase our front line operations staff by 5 and 1 foreperson to ensure the protection of our infrastructure, the environment and our drinking water.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	613,368	-	-	-
Less: Internal and Capital Recovery	(184,010)	-	-	-
Total Expense	429,358	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	61,337	-	-	-
Total Revenue	61,337	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	368,021	-	-	-
FTEs	6.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

2022 was the first year that there was staff growth in front line operators in the previous 10 years. Those staff were to focus on maintenance activities as some of our standards were not met. In 2016 our operator rate was 3.8 operators per 100 km of water and 100 km of sewer main, our ratio of staff to water and wastewater main sits at 1.5 operators per 100 km of water main and 100 km of wastewater main. Since 2013 we have seen the water and wastewater system grow.

Details of Service Change

Due to increasing capital commissioning work, staff are diverted from maintenance work and other jobs to assist leaving maintenance work to be completed on overtime or fail to get completed. The additional staff will work within the capital commissioning customer service teams and allow maintenance staff to complete all required maintenance inspections in a timely manner.

Service Impact

Greater percentage of maintenance targets hit and regulatory requirements will be met.

Budget Request #: 22

Proposed Initiative	Department	Division	Service Area
Resources to support growth in Public Works Facilities	Public Works	Operations Support	Water and Wastewater

Description of Budget Request

Request for 2.0 additional FTEs (1.0 Facilities Specialist and 1.0 Facility Maintenance Operator) to support the additional permanent workload resulting from growth in Public Works Facilities. This will allow us to maintain existing service levels, while reducing the need to hire Temporary, Contract and additional student staff, as well as the additional costs associated with overtime.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	223,189	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	223,189	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	89,276	-	-	-
Net Impact - Utility Rate	133,913	-	-	-
FTEs	2.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

The driver of this initiative is growth. The Public Works Facilities Remote Sites portfolio has grown from 123 sites in 2013 to 183 sites in 2023 (an increase of 49%). There have been no staffing increases during this period. This has resulted in a significant workload increase for staff and contracted service providers to manage and maintain these properties.

Details of Service Change

The addition of these properties has resulted in a 364% increase in work orders (411 in 2013 to 1,949 in 2023) for the work performed by contracted service providers. As well, there has been a significant increase in the number of special projects, major repairs and State of Good Repair projects, etc. We are currently managing this demand through out of budget contract staff and by incurring excessive overtime costs.

The addition of one (1) Full Time Specialist FTE is required to manage these projects and to oversee the additional contracted work while avoiding unnecessary Overtime.

Additionally, there has been a 378% increase in work orders (687 to 2598) and 85% increase to labour hours (2483 to 4584) performed by in house bargaining staff. We are currently managing this demand through recurring out of budget temporary hires, as well as additional students through the summer months.

The addition of one (1) Full Time Facility Maintenance Operator FTE is required to sustainably manage the additional workload.

Continuing to hire Temporary and Contract staff to manage additional demands is not sustainable. The Collective Bargaining Agreement allows hiring of temporary Bargaining staff for a maximum of 12 month assignments, requiring us to repeatedly hire and provide training to new employees. It has also proven difficult in the recruitment process to attract Non Bargaining Contract employees with the specialized skills required by the Specialist.

Service Impact

Addition of these two (2) Full Time staff will allow us to manage the increased workload and maintain optimal service levels.

PW Facilities Specialist responsibilities include:

Development and review of specifications for special projects (construction, renovation etc.), including managing Contractors throughout construction; Oversee Contractors (including requirement to be physically onsite to provide access and verify) performance of preventative maintenance and repair work for electrical, HVAC, Plumbing, Security, Life Safety systems at all remote facilities; Provide input to client development of SOGR schedules and Capital budgets etc.

Facility Maintenance Operator responsibilities include:

Routine scheduled inspection of 180 remote facilities; litter and brush removal, maintaining of parking lots, sidewalks and entrance ways; snow removal, grass cutting, trimming, pruning; minor plumbing and electrical work; minor fencing and gate repairs; window and door repairs; life safety, HVAC inspections etc.

The costs associated with these 2.0 FTEs will be fully offset by the reduction in overtime as well as out of budget contract, temporary staff and students.

Budget Request #: 23

Proposed Initiative	Department	Division	Service Area
5 Resources required for Public Works Digital Service Team to execute the Public Works Information Technology Roadmap	Public Works	Operations Support	Water and Wastewater

Description of Budget Request

In December 2023, the pilot and funding for the Digital Services Team (DST) for Public Works (PW) will be coming to an end. This budget request is for 5.0 FTEs to build a permanent Digital Services Team (DST) to support all of Public Works and expand beyond TransHelp and Waste Management to action the recommendations captured in the Application Rationalization Project: PW IT Roadmap Report that advises which technologies should be replaced, updated, consolidated, or maintained.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	407,713	382,713	-	-
Less: Internal and Capital Recovery	(245,000)	(245,000)	-	-
Total Expense	162,713	137,713	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	65,085	55,085	-	-
Net Impact - Utility Rate	97,628	82,628	-	-
FTEs	5.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

The Region's digital strategy aims to provide a seamless resident and employee service experience through integrated business and technology modernization; thus, areas for technology improvement highlighted in the Application Rationalization Project: Public Works IT Roadmap Report, informed by staff, will drive and inform the DST mandate, including but not limited to: application integrations, data visualization, elimination of dual-entry systems, and data management.

Details of Service Change

Building on the success of the Public Works DST pilot for TransHelp and Waste Management, the DST will strategically expand and drive the PW IT Roadmap for all of PW to improve operations and overall service delivery for employees and residents over the next 5 years. The Digital Services Team is defined as organizational structures that focus on the redesign of services and processes with the goal to provide digital government services faster and in a more user-centric way than existing e-government efforts.

DST will support the following activities:

- Conduct current state assessments by identifying business process, practices and data model elements that are common across all divisions of Public Works,
- Determine inefficiencies, gaps, redundancies and inconsistencies with processes and technology,
- Define target state standards and technologies,
- Initiate Service Requests targeting necessary system configurations,
- Develop project plans and execute on deliverables.

The DST will prioritize project activities most important to services, residents, and employees, whilst enhancing collaboration with IT to ensure technology consistency, standards, synergies are aligned to Corporate IT initiatives.

The DST reporting to Information Technology, is comprised of the following 5 FTEs: Product Manager, Project Manager, Solutions Applications Architect and 2 Business Analysts.

Service Impact

A recent publication in Government Information Quarterly (Mergel, 2019) proposed the benefits of DSTs in a government-setting; including: acceleration of digital service delivery to meet changing resident needs, quick iterations and redesign capacity, reduced operational effort and frustration, opportunity to acquire new talent and skills not typical to government IT organizations, increased likelihood of adaptation and standardization of technology, and more centralized decision-making authority for innovative IT practices.

The outcomes of a DST delivery model may be assessed in a multitude of methods including, return on digital investments (i.e., reduction of operational costs overtime), improved adoption and usage (uptake) of technology with employees and residents, customer satisfaction in digital service delivery, reduction in bugs, downtime or work arounds, improved application reliability, performance, and trust.

Budget Request #: 24

Proposed Initiative	Department	Division	Service Area
Human Resources support for Water and Wastewater initiatives	Public Works	Operations Support	Water and Wastewater

Description of Budget Request

The purpose of this budget request is to have additional Human Resources to support PW Water and Wastewater.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	136,718	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	136,718	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	136,718	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

To support the various corporate projects and initiatives in Water and Wastewater. The priorities include ERP Implementation, Development of Enterprise Asset Management, Governance and Strategy for Implementation of Maximo, Provincial changes (Bill 23, 39, 112), Water/WasteWater Pricing Model & Long-Term Financial Strategy, Culture work (recruitment and retention), Workforce Development, Bargaining and Succession Management.

Details of Service Change

Increase support to the Water and Wastewater leadership team in the implementation of the ERP Implementation, Development of Enterprise Asset Management, Governance and Strategy for Implementation of Maximo, Integrated Planning of Regional Responsibilities (Bill 23, 39, 112), Water/WasteWater Pricing Model & Long-Term Financial Strategy, Culture Improvement Work, Workforce Development and Succession Management. Additional HRC support would also support the operationalization of these programs once the implementation phase is complete. HRC Support would also be required for labour relations and HR related support (recruitment & retention, collective bargaining, performance management etc.)

Service Impact

As of June 2023, the division has a head count of approx. 515 employees (401 regular full-time positions and 114 temporary positions). The service level changes will be achieved by splitting the current PW department into two portfolios and supporting the leadership teams with program implementation and roll out. This will allow a better balance of workload and support, especially related to employee and labour relations amongst the seven divisions during Peel's transformation (governance - Bill 112).

Budget Request #: 25

Proposed Initiative	Department	Division	Service Area
Technical Analyst for Locates program	Public Works	Wastewater	Water and Wastewater

Description of Budget Request

To add a Technical Analyst to support the locates program due to the legislative changes in the locates legislation with the pending direction on using dedicated locators for projects as well as the start of a new Administrative Penalty system.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	115,166	-	-	-
Less: Internal and Capital Recovery	(115,166)	-	-	-
Total Expense	-	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

In the past year, there have been updates to the Ontario Underground Infrastructure Notification System act that promotes safe digging. Starting in 2023, there will be administrative penalties issued to locate providers for late locates. Tracking and analyzing data for compliance will be an important role to ensure we stay on top of our locates - both requested and provided. In 2022, our compliance rate for providing locates in house met requirements but contractors were around 50%.

Details of Service Change

With this new role, there will be increased oversight of the compliance rate from all of our service providers so our contracts can be better managed, there will be regular reviews of locates requested by us as well as our contractors on major projects as installation of water and sewer mains cannot proceed without locates and many projects get hung up in locate requests. In 2022, there was a compliance rate of less than 50% on locates for all projects work on by Peel or our contractors; some of this was due to staffing issues post COVID but as Bill 23 progresses, the growth and demand for locates will only increase and to ensure minimal delays, this role will be key. Also for this role, they will be able to manage all dedicated locates for projects as set out in the legislation, working between our engineering teams, the contractors and legislators to ensure notification requirements of 90 days are met for all projects as well as file appropriate paperwork and negotiations with service providers. Having this role in place will help with the locate program, provide detailed reports on our compliance and allow us to address challenges and take corrective actions before any penalties are assessed.

Service Impact

By having one person liaise with contractors, engineering and service providers, there will compliance with the legislation for notification for the use of key capital projects in need of dedicated locators ensuring all timelines are met. This person will also monitor service provider compliance and work with our contracts team and purchasing on proper vendor management and reporting requirements to Ontario One Call. By keeping a closer eye on our compliance we can take proactive actions to target compliance rates of over 85% versus having it less than 50% of the time as was seen in 2022 with very proactive work being done by the team that formerly managed locates. By having an increased compliance rate, the chances of being assessed monetary penalties is reduced. The penalties being faced by Peel were in excess of \$2 million dollars, and the province is starting the new program in 2023 with all previous amounts being removed. Monitoring our compliance with the legislation and taking corrective actions immediately will contribute to no fines being levied against Peel.

Budget Request #: 26

Proposed Initiative	Department	Division	Service Area
Program Manager - Water Resource Planning	Public Works	Water	Water and Wastewater

Description of Budget Request

Given the significant rate of development and capital projects expected within the Region in the following decade as well as increasing operational needs, Infrastructure Planning resources are strained and we require a program manager to support timely responses, employee engagement, and coordination with other departments. Achieve increased efficiency, leader improves the teams overall productivity and provide summarized feedback to manager who will oversee the infrastructure planning team.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	169,618	-	-	-
Less: Internal and Capital Recovery	(84,809)	-	-	-
Total Expense	84,809	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	84,809	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

The driver is supporting growth management initiatives related to water resources planning, source water protection and groundwater management. The increasing trend in growth and meeting Bill 23 related pledges, will require more focus in providing services (PTTW/ESR/SWP) to capital as they try to deliver more projects. There will also be a requirement for the Manager to attend more growth related meetings, a new program manager will provide more facetime to water resource planning staff.

Details of Service Change

The request is for a program manager to lead the water resources planning team. This position will support achieving the 10-Year Water and Wastewater Goals approved by Council. This position helps us increase technical services towards integrating ongoing planning initiatives, studies and development requests in support of future growth in the Region, develop servicing strategies to support local area municipalities meet their growth pledges as per Bill 23, and provide much needed representation as a Qualified Professional (QP), to the Region in front of the Ministry of Environment, Conservation and Parks (MECP). This will also allow staff to have a dedicated people leader with focused water resources management and source water protection vision, assisting the staff development and growth. This will allow the Manager to better manage other coordinating activities across Program Planning, Development Services, Development Engineering, Capital and Operations. This team's new program manager will be the driving force to improve team's well-being and overall productivity, it will be a single contact for the Manager who is overseeing the entire Infrastructure Planning team. This leader will have a better understanding of water resources planning needs and create a vision for the team to better support many departments in Public Works, (eg. Transportation, Waste Management, Infrastructure Planning, Compliance, Water/Wastewater Engineering, Operations) as well as other teams.

Service Impact

The outcomes will be achieved by:

- a) Ensuring development application requests are completed in a timely manner by having a dedicated people leader responsible for reviewing and guiding the team receiving, processing, managing and circulating the hydrogeological expertise for these requests.
- b) Developing team goals aligned with the water resources planning vision and in line with Infrastructure Planning as a whole.
- c) Collaborating with other teams in Public Works and Water Wastewater to provide timely support to construction projects, Municipal well condition and performance as well as politically sensitive issues
- d) Leverage knowledge and experience of expanded team in producing servicing analysis to support a variety of initiatives across local area municipalities and Region.
- e) Meeting development servicing requests within a reasonable amount of time. This will require new processes to help better manage and track requests, overlapping projects, etc.

Budget Request #: 27

Proposed Initiative	Department	Division	Service Area
Advisor - Water Hydraulic Modelling Program	Public Works	Water	Water and Wastewater

Description of Budget Request

Given the significant rate of development and capital projects expected within the Region in the following decade as well as ongoing operational needs, Infrastructure Planning resources are strained and we request an additional water hydraulic modeler in order to support timely responses and coordination.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	154,417	-	-	-
Less: Internal and Capital Recovery	(77,209)	-	-	-
Total Expense	77,209	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	77,209	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

The driver is supporting growth management initiatives that ensure proactive servicing planning which promotes efficient use of infrastructure. Increasing trend of development in the Region, requires additional inter-departmental water modelling to support to development requests, higher level infrastructure planning studies, (e.g. SABE, Post-2041 Growth Impacts to W/WW, etc) and significant increases in coordination related to ongoing major capital projects and operational activities.

Details of Service Change

The request is for an Advisor - Water Hydraulic Modelling in the Infrastructure Planning - Modelling and Data team. This position will support achieving the 10-Year Water and Wastewater Goals approved by Council. This position helps us dedicate technical services towards integrating ongoing planning initiatives, studies and development requests in support of future growth in the Region as well as coordinating ongoing activities across Program Planning, Capital and Operations.

Service Impact

The outcomes will be achieved by:

- a) Ensuring water modelling requests are completed in a timely manner by having a dedicated FTE be responsible for receiving, processing, managing and circulating the analysis for these requests.
- b) Maintaining Hydraulic models with up-to-date infrastructure (existing and planned projects) that is easily consumed by all internal and external users.
- c) Leverage knowledge and experience of expanded team in producing modelling analysis to support a variety of initiatives across Operations, Capital and Program Planning.
- d) Meeting water modelling-related requests within a reasonable amount of time. This will require new processes to help better manage and track requests, overlapping projects, etc.

Budget Request #: 28

Proposed Initiative	Department	Division	Service Area
Project Manager - External Agency & Easement Encroachment Review	Public Works	Water	Water and Wastewater

Description of Budget Request

Centralizing the ongoing functions of review the implications to Peel's water and wastewater infrastructure related to external agency projects and potential encroachments on our easements. Evaluates all external agency inquiries/notifications and prepares technical responses. Prepares and negotiates external cost share agreements with external agencies.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	149,418	-	-	-
Less: Internal and Capital Recovery	(74,709)	-	-	-
Total Expense	74,709	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	74,709	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

Processes were reviewed in detail in early 2022 and recommendation was to assign to one central point of contact. This function has been bounced around several times and was consuming time from various stakeholders inefficiently.

Details of Service Change

Currently assigned as recommended but with a temporary contract. This role has made it easier for external agencies to communicate as it is centralized, the role is able to handle virtually all of the work without the need to disturb others in the Engineering Division. Level of Service improvements: external agencies receive easier and faster responses to avoid project delays.

Service Impact

The outcomes will be achieved by:

- a) Ensuring external agency requests are completed in a timely manner by having a dedicated FTE responsible for receiving, processing, managing and circulating the analysis for these requests.
- b) Centralized intake process so that internal and external stakeholders know exactly who to communicate with.
- c) Leverage knowledge and experience of Manager to provide training and development and back up reducing risk of turnover.
- d) Centralized and improved request tracking system.

Budget Request #: 29

Proposed Initiative	Department	Division	Service Area
Project Managers - Infrastructure Planning and Studies	Public Works	Water	Water and Wastewater

Description of Budget Request

Given the significant rate of development and capital projects expected within the Region in the following decade as well as ongoing operational needs, Infrastructure Planning resources are strained and we request two additional project managers (1 FTE and 1 Contract) in order to support timely responses to and coordination.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	288,859	-	-	-
Less: Internal and Capital Recovery	(143,859)	-	-	-
Total Expense	145,000	-	-	-
Rate Stabilization Reserve	145,000	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	145,000	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

The driver is supporting growth management initiatives that ensure proactive servicing planning which promotes efficient use of infrastructure. With the increasing trend of development in the Region, additional analyses and studies are required to support development requests, higher level infrastructure planning studies, (e.g. SABE, Post-2041 Growth Impacts to W/WW, etc) and significant increases in coordination related to ongoing major capital projects and operational activities.

Details of Service Change

The request is for two project managers in the Infrastructure Planning growth team. This position will support achieving the 10-Year Water and Wastewater Goals approved by Council. This position helps us increase technical services towards integrating ongoing planning initiatives, studies and development requests in support of future growth in the Region, develop servicing strategies to support local area municipalities meet their growth pledges as per Bill 23, and be key members of the ongoing and increasing coordinating activities across Program Planning, Development Services, Development Engineering, Capital and Operations.

As accelerated residential growth is expected in the Region, a need to advance projects, re-evaluate planning scenarios, servicing strategies and lead capacity studies and Class Environmental Assessments, two project managers will be able to help the team advance these studies to meet Council, developers, and local development requirements. Many of the existing development applications are adapting to the changing needs of the Province and re-submitting development applications with updated higher population numbers which will be analyzed again, to inform the water and wastewater servicing plan and develop a more robust servicing strategy and capital plan.

Service Impact

The outcomes will be achieved by:

- a) Ensuring development application requests are completed in a timely manner by having more staff working on receiving, processing, managing and circulating the analysis for these requests.
- b) Managing the increasing amount of Class Environmental Assessments, servicing studies, and master servicing plans required prior to execution of projects
- c) Developing water and wastewater servicing studies which will inform the master plan, the capital plan and which will be is easily consumed by all internal and external users.
- d) Leverage knowledge and experience of expanded team in producing servicing analysis to support a variety of initiatives across local area municipalities and Planning.
- e) Meeting development servicing requests within a reasonable amount of time. This will require new processes to help better manage and track requests, overlapping projects, etc.

Budget Request #: 30

Proposed Initiative	Department	Division	Service Area
Project Manager to support the Office of the Director	Public Works	Wastewater	Water and Wastewater

Description of Budget Request

To add 1 project manager to the Director's office in Operations to address an outstanding compliance auditing requirement from Ministry of Environment, Conservation and Parks (MECP) recommendations and the increasingly complex infrastructure being built for our operations team.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	149,417	-	-	-
Less: Internal and Capital Recovery	(149,417)	-	-	-
Total Expense	-	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

During COVID audits of drinking water paperwork did not align for staff resulting in submissions to the MECP for potential infractions. The MECP recommended bring in an auditing program to ensure alignment of log books, paperwork and AVL. The second position is to ensure that there is a smooth transition of engineering projects to operations to ensure proper training and equipment as well as representing Ops during construction.

Details of Service Change

Quality Control and Assurance normally reports to the divisional head to ensure no conflicts - the one person will audit Operations functions such as legal requirements related to MECP paperwork, locates contractors, and operations contracts to ensure all work is being completed as required by Drinking Water and Locates legislation. This role will create reports to be reviewed with staff and subsequently submitted as part of annual reports to MECP and ON1Call. The second role will ensure that Operations needs are represented during construction projects and enable proper infrastructure is selected, training and equipment are made available to operations staff when infrastructure is turned over. A short fall has been noticed as our real time control, diversions and deep infrastructure has left some challenges with operations not having staff trained as fully as needed and has left gaps with equipment causing the use of contractors for many repairs and maintenance.

Service Impact

Through auditing, we can ensure that work is being completed and we are meeting our regulatory requirements. Also through the auditing of contractors, we ensure that the quality specified in contracts is being met both in the quality of work being done as well as the materials used and that Peel Region specs are maintained. Alternate Locate Agreements also need to be audited as per the ON1Call requirements and submitted as part of our annual reviews. For our staff, having someone be more intimately involved in contract planning, design and construction, training and equipment needs can be better anticipated to ensure that staff need training to work on a water and wastewater system that is becoming more complex. Increasing staff awareness, ensures jobs stay in house for repairs and maintenance where possible and safety standards are held in high regard.

Budget Request #: 31

Proposed Initiative	Department	Division	Service Area
Backflow Prevention Inspection staff growth-Inspector	Public Works	Water	Water and Wastewater

Description of Budget Request

To add additional inspectors for the administration and enforcement of the Backflow Prevention Bylaw that is in place to ensure the protection of Peel's Drinking Water.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	229,494	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	229,494	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	229,494	-	-	-
Total Revenue	229,494	-	-	-
Net Impact -Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	2.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

Compliance with the bylaw and the protection of Peel's drinking water are the main drivers. Over 80,000 industrial, commercial, institution and 3 story or greater residential facilities need backflow devices to ensure the protection of our water. These staff will be field based and look after field inspections and education to the ICI sector on backflow.

Details of Service Change

Currently staff that administer the backflow bylaw also administer the water bylaw and are mostly office based reviewing surveys and providing direction to the ICIR facilities. These staff that are being requested will be out in the field, verifying surveys on site to ensure that are installed, tested and working properly to ensure the protection of Peel's drinking water. On an annual basis over 5000 surveys come in and less than 100 field verification visits take place. These staff will focus on site visits to verify the survey information, type of hazard that exists, type of backflow device needed as well as verifying proper installation and testing of existing backflow devices. Large retrofit projects to install backflow devices are taking place at a number of industrial facilities as well as schools across both school boards and staff will work closely with representatives from the facilities. Also with growth taking place, backflow devices are required during commissioning projects during the chlorination of new pipes. Staff will be able to visit commissioning sites to ensure that the backflow devices are placed properly and functioning correctly by performing on site tests.

Service Impact

Staff will have targets set on the number of sites to visit on an annual basis to ensure there are proper inspections and tests completed of the backflow devices. Staff will also be able to generate reports for overall program outcomes, such as sites visited, devices tested, deficiencies discovered and provide these to our drinking water compliance team and incorporate these into our annual drinking water system inspections that are completed by the Ministry of the Environment, Conservation and Parks to show additional diligence in the protection of our drinking water. This program was started due to recommendations on MECP inspections so the submission of the reports will show our commitment to the program improvements.

Budget Request #: 33

Proposed Initiative	Department	Division	Service Area
Technical Analyst for Engineering Review	Public Works	Development Services	Water and Wastewater

Description of Budget Request

To Add Technical Analyst to support the review of Development Engineering Subdivision and Miscellaneous Projects applications. Assist Project Managers in processing of Development Engineering Applications.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	115,165	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	115,165	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	115,165	-	-	-
Total Revenue	115,165	-	-	-
Net Impact -Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

It is expected that over the coming years a significant increase in the Engineering Development Applications for both residential and industrial/commercial properties within the Region of Peel. To meet with expected demand in Engineering Application reviews, additional staff will be require to maintain expected level of service.

Details of Service Change

With this new position, the level of service provided by staff in the Engineering - Development Services will be maintained. This group is committed to providing consistent engineering review turning around times of 3 weeks or less, that ensure engineering submissions for Water, Wastewater and Roads meet the Peel Region Standards.

Service Impact

Over the coming years it is expected that Engineering Applications from the Development Sector will increase significantly to meet demand for additional residential and industrial/commercial properties within the Region of Peel. Present staffing levels are meeting the expected level of service for prompt turnaround times, however with the expected increase in submitted development applications our level of service will drop to workload. Adding this Technical Analyst to the existing staff complement will ensure expected level of service will be maintained.

Budget Request #: 34

Proposed Initiative	Department	Division	Service Area
Project Manager for Engineering Review	Public Works	Development Services	Water and Wastewater

Description of Budget Request

To add a Project Manager to support the review of Development Engineering Subdivision and Miscellaneous Projects applications.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	149,417	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	149,417	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	149,417	-	-	-
Total Revenue	149,417	-	-	-
Net Impact -Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

It is expected that over the coming years a significant increase in the Engineering Development Applications for both residential and industrial/commercial properties within the Region of Peel. To meet with expected demand in Engineering Application reviews, additional staff will be require to maintain expected level of service.

Details of Service Change

With this new position, the level of service provided by staff in the Engineering - Development Services will be maintained. This group is committed to providing consistent engineering review turning around times of 3 weeks or less, that ensure engineering submissions for Water, Wastewater and Roads meet the Peel Region Standards.

Service Impact

Over the coming years it is expected that Engineering Applications from the Development Sector will increase significantly to meet demand for additional residential and industrial/commercial properties within the Region of Peel. Present staffing levels are meeting the expected level of service for prompt turn around times, however with the expected increase in submitted development applications our level of service will drop to workload. Adding this Project Manager to the existing staff complement will ensure expected level od service will be maintained.

Budget Request #: 35

Proposed Initiative	Department	Division	Service Area
Project Manager to support State of Good Repair (SOGR) for Water and Wastewater infrastructure	Public Works	Water	Water and Wastewater

Description of Budget Request

We are asking 1 FTE for continued support of long-term SOGR targets.

Peel Region has an obligation to maintain SOGR for its W/WW linear infrastructure and aligns with the requirements of O.Reg. 588/17. As Peel's existing infrastructure continues to age and additional infrastructure is implemented through growth, maintaining the linear infrastructure in a suitable State of Good Repair (SOGR) becomes increasingly complex.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	149,417	-	-	-
Less: Internal and Capital Recovery	(149,417)	-	-	-
Total Expense	-	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

To continue to have sufficient capacity and expertise to address the SOGR's Levels of Service needs of our aging existing linear water infrastructure and the increasing needs of new infrastructure due to growth. In the past 5 years, we have seen an approximate 3% growth in our linear water infrastructure. Also to address the impact of 2 potential critical roles within SOGR. Having this PM we are able to downgrade the status to below critical.

Details of Service Change

The project manager will be responsible for annually coordinating and developing the local distribution water renewal and replacement capital plans for the divisions and present the annual capital budgets and capital plans for the water divisions to the managers, directors, general manager, executive leadership team and Council for approval.

The annual water and wastewater capital budget is worth more than \$500 million and the Region's annual 10-year water and wastewater capital plans are worth a combined total of nearly \$4 billion. The project manager will align the 20-year state of good repair capital plans for water and wastewater with the recommendations of Enterprise Asset Management program.

This position is fully funded by capital projects.

Service Impact

The project manager will bring valuable tools and expertise to the Peel's decision-making processes, particularly in the area of SOGR. They will work closely with both internal and external staff to gather and analyze data, enabling Peel to make informed decisions that support cost-saving and social impact reducing opportunities.

They will also play a crucial role in coordinating with stakeholders to ensure that rehabilitation and remediation needs for local linear water infrastructure are met. They will produce scoping packages that outline annual capital needs, leveraging their expertise to create reporting and mapping deliverables that can be used by capital staff.

They will provide vital parameters that can be used in long-term budget forecasts, allowing the organization to make more accurate predictions about customer rate requirements and to dampen annual peaks and valleys in rehabilitation and remediation needs. This will reduce swings in customer rates. By converting the contract staff to full-time, the organization will benefit from their expertise and experience in these critical areas, ultimately leading to improved performance and better outcomes for stakeholders.

Budget Request #: 36

Proposed Initiative	Department	Division	Service Area
Project Manager to manage projects at the wastewater treatment plants	Public Works	Wastewater	Water and Wastewater

Description of Budget Request

This position is responsible for the project management related to capital projects related to wastewater treatment. Given the increase in capital output required to meet the growing demands of the Region, Wastewater Treatment Capital requires additional support to deliver the 10-year Capital Plan.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	164,618	-	-	-
Less: Internal and Capital Recovery	(164,618)	-	-	-
Total Expense	-	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

The workload in the Wastewater Treatment Capital team is increasing to meet the demands of the 10 year Capital Master plan. To deliver projects according to schedule and satisfy the needs of growth, additional staff is required.

Details of Service Change

The workload within the Team is already at capacity. If additional staff is not approved, the Team will not be able to meet the current timelines for growth stipulated in the Master Plan and there is a risk that commitments made to the public and external stakeholders will not be met.

Service Impact

Without the position, current and future projects will not be able to be completed without burdening other project managers.

Budget Request #: 37

Proposed Initiative	Department	Division	Service Area
Technical Analyst to support the Wastewater Collection and Conveyance capital works team	Public Works	Wastewater	Water and Wastewater

Description of Budget Request

Creation of a Band 6 Technical Analyst (TA) to support the Wastewater Collection and Conveyance capital works Team. The TA will focus on ensuring customer service expectations are tracked and managed during construction of capital works projects. The TA will also provide support to Project Managers to support delivery of the 10 year Master Plan.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	114,744	-	-	-
Less: Internal and Capital Recovery	(114,744)	-	-	-
Total Expense	-	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

The workload in the Wastewater Collection and Conveyance Team is increasing to meet the demands of the 10 year Capital plan. To deliver projects according to schedule and satisfy the needs of growth and state of good repair, additional capital works staff are required.

Details of Service Change

The amount of workload in the Wastewater Collection and Conveyance Team is currently at capacity. The TA will be focused on supporting Project Managers by ensuring customer service levels are maintained during construction. This alleviation of duties will ensure that the 10 year Capital plan can be effectively delivered.

Service Impact

Concerns raised during construction is a current council priority to address and mitigate. The TA will be responsible to ensure that all customer service inquiries received during construction are addressed promptly and efficiently. Supporting Project Managers across the Wastewater Collection and Conveyance Team.

Budget Request #: 38

Proposed Initiative	Department	Division	Service Area
Capital support for Wastewater collection and Conveyance	Public Works	Wastewater	Water and Wastewater

Description of Budget Request

This is to ask for one Band 8 Project Manager.

WW Collection and Conveyance requires additional support to deliver the state of good repair (SOGR) program and the 10 year Capital Plan. The amount of work required to maintain our aging wastewater infrastructure is increasing and staff is required to support this work.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	149,417	-	-	-
Less: Internal and Capital Recovery	(149,417)	-	-	-
Total Expense	-	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	1.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

The workload in the Wastewater Collection and Conveyance team is increasing to meet the demands of the 10 year Capital Master plan. To deliver projects according to schedule and satisfy the needs of growth and SOGR, additional capital works staff are required.

Details of Service Change

The amount of workload in the Wastewater Collection and Conveyance Team is already at capacity. We currently have this role being filled on a contract basis and in order to maintain current service levels, this contract needs to be converted to a full time position.

If this contract is allowed to lapse, then the Capital program won't be able to deliver projects to satisfy the needs of the wastewater system according to current obligations for growth, state or good repair on needs of our partners at the local municipalities.

Service Impact

Service levels will be maintained if this additional FTE is approved.

Budget Request #: 78

Proposed Initiative	Department	Division	Service Area
Land Acquisition to Support Accelerated Growth (Water and Wastewater)	Public Works	Wastewater	Water and Wastewater

Description of Budget Request

The request to add 2 new positions to support the increasing workload in Real Estate (RPAM) and to accelerate timelines of the capital program to advance land negotiations and agreements for the Water and Wastewater program. The permanent positions will assist in managing Peel's capital infrastructures current long-term interest and provide professional advice and recommendations.

Required Annual Operating Investment

Impacts	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	273,127	(6,000)	-	-
Less: Internal and Capital Recovery	(273,127)	-	-	-
Total Expense	-	(6,000)	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	-	(6,000)	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	2.0	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	-
Capital Reserve	-
Development Charges	-
External Funding	-
Debt	-
Total Funding	-

Why Staff Recommend this Initiative

Increased PW project volume has increased workload and impacted all the core business activities within the Capital Acquisitions section, which require additional administrative and project support for both the Manager and the project teams. The new positions will assist in managing the Region's capital infrastructures current long-term interests and provide professional advice and recommendations in relation to acquisition of various property rights for capital project requirements.

Details of Service Change

Current workload has been divided amongst current staff which leads to new projects either being deferred or delayed, unless they are a priority, which means existing lower priority projects would have to wait. Additional staff will assist the Capital Acquisitions team to provide timely communications, allow project teams to better manage aggressive timelines, maintain internal and external partnerships, build and maintain client relationships with program partners, external appraisers, land owners, and partner area municipal staff. The current and future work load includes but is not limited to: increase of State of Good Repair Projects for Maintenance and Relining works for water and wastewater infrastructure, Noise Wall Conversion Projects; currently seven (7) active projects with six (6) more projects identified to date, currently 42 active road projects, 55 active waste water projects, 50 active water projects and 15 EA's in process for roads, water and wastewater projects.

Service Impact

The additional supports will ensure successful delivery of assigned projects and maintain targets for client satisfaction, budget and schedules. The role of the Program Manager will provide frontline management to reporting staff which will alleviate the volume of direct reports that the Manager currently holds while gaining project support for the entire section. The Program Manager will be responsible for risk management, communications, client reports and the provision of expert negotiation and compensation advice and approvals.

The Capital Acquisitions Agent will be responsible for completing land transactions to secure a variety of property interests, conducting appraisal procurement and reviews for all property negotiations, and liaising with stakeholders.

The Capital Acquisitions Negotiator will be responsible for facilitating and negotiating agreements, for Noise Wall Conversion and SOGR projects.

The Administrative Assistant will be responsible for providing coordinated administrative support to the Manager and project teams. With the increase of projects, the number of agreements has increased substantially requiring additional administrative support for processing these agreements.

Budget Request #: 122

Proposed Initiative	Department	Division	Service Area
Building Information Modeling implementation	Public Works	Operations Support	Water and Wastewater

Description of Budget Request

Building Information Modeling (BIM) is a highly collaborative process allowing architects, engineers, developers, contractors, manufacturers, and other construction professionals to plan, design, and construct within 3D models in tandem within a central data environment (CDE). BIM is a tool with capacity to manage information data (models, drawings, assets, data, etc), automate processes, control/track information and more, to improve efficiency while maintaining ISO standards compliance.

Required Annual Operating Investment

	2024 \$	2025 \$	2026 \$	2027 \$
Gross Expenditures	-	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	-	-	-	-
Rate Stabilization Reserve	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact -Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	-	-	-	-

Required Capital Investment

	2024 \$
Total Expenditures	3,500,000
Capital Reserve	3,500,000
Development Charges	-
External Funding	-
Debt	-
Total Funding	3,500,000

Why Staff Recommend this Initiative

BIM Process and CDE implementation will improve project efficiency across W/WW sections. Peel will have a greater involvement in all aspects of asset life cycles: single centralized work environment, more integrated teams, 3D model data sets more integrated and connected to each other resulting in easier sharing and accessing, improved controlled data and information access for internal and external project stakeholders, improved assets management, improved efficiency and cost transparency.

Details of Service Change

W/WW Programs need a tool to aid in efficient project data flow across internal departments, consultants and clients. The tool will have the capacity to manage information data (3D models, drawings, assets, data, etc.), automate processes, control and track information, reduce design and construction conflicts and many other applications to improve efficiency while maintaining compliance with the ISO Standards. This will require to update procedures from current state to be compliant with ISO 19650 (procurement procedures), ISO 55000 (asset management procedures) standard and transition from a 2D linear CAD system to a full 3D BIM standard. This tool must be all-in-one application capable of multiple integrated functions that allows staff to seamlessly, with built-in accuracy manage the programs that apply to all Water and Wastewater divisional teams. The ISO 19650 procurement procedure common for all W/WW teams must be developed, implemented, and enforced resulting efficiency in: Design - work in shared files; Plan - single platform; Build - connect office to jobsite; Operate - assets managed from 3D models.

Project requires implementation of ISO 19650 compliance in the hosting and managing of BIM data and models, CDE to ensure data is correct, up to date and integrated, while allowing external stakeholders-controlled access. ISO 19650 compliance by staff, consultants, contractors, and all stakeholders interacting with the models, drawings, assets and data is required.

Service Impact

All staff who are involved/affected by this initiative, need to be made aware of when the initiative will take place, aspects of the work environment that will be changed, and how this initiative will affect their day-to-day responsibilities and tasks.

Develop, establish, implement, and enforce a company-wide standard. A certain level of standards flexibility needs to be provided that maintains consistency, while allowing for specific needs.

Minimize the number of software tools but this becomes a balancing act between complexity and achieving project goals. Benefits of 3D models: asset evaluation more efficient, risk of error/misinformation that can cause rework/delays during construction phase can be minimized, more accurate quantities schedule and cost estimates. Models easily shared with stakeholders and can be updated easily reducing errors, save time, access from models all assets and their information (P&ID,models,specifications,manufacturer etc...).

Where department tasks overlap, established and properly implemented workflows will result in tasks becoming predictable, eliminating confusion/frustration with lost information and responsibilities. Departments will collaborate with one another more efficiently by sharing a common database and establishing common procedures/workflows. A gradual implementation will ensure success of the initiative. Phased implementation efforts allows for adjustments and updates to these processes ensuring a better solution for everyone

2024 Financing Sources and Funding Status (\$'000)

			2024				
<u>Project</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
121420	Rehabilitation and Upgrade of the Queensway Sub-Transmission Main	Rehabilitation and upgrade of the Queensway Sub-Transmission Main to provide additional east-west transfer capacity in Pressure Zone 2.	4,000	2,000	2,000		
141240	East Brampton Transmission Main Twinning	Construction of a 1500-mm transmission main from the Beckett-Sproule Pumping Station to the East Brampton Reservoir.	56,000	56,000			
141257	Central Brampton Sub-Transmission Main	Construction of a Pressure Zone 5 Central sub-transmission main from the Beckett-Sproule Pumping Station to the East Brampton Pumping Station.	50,000	50,000			
141377	750-mm Water Main - Creditview Road - Rehabilitation	Rehabilitation of the 750-mm water main on Creditview Road. Design in 2024.	2,000			2,000	
181357	600-mm Water Main Replacement - Queen Street West	Replacement of the existing water main from Mill Street South to Haggert Avenue South in downtown Brampton.	6,000			6,000	
181394	Queen Elizabeth Way Widening (Cawthra to East Mall) - Water Impacts	Replacement or relocation of water mains in conjunction with the widening of the Queen Elizabeth Way.	2,200			2,200	
191120	750-mm Water Main - Lakeshore Road West	Construction of a 750-mm water main on Lakeshore Road West from the Lorne Park Water Treatment Plant to Elmwood Avenue.	44,000	44,000			
191156	750-mm Water Main - Centre Street	Construction of a 750-mm water main on Centre Street from Williams Parkway to John Street.	59,000	59,000			

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
191917	Security Improvements at Lake-Based Water Facilities	Implementation of security improvements at various lake-based and groundwater-based facilities.	1,200		1,200	
211015	Water Enterprise Asset Management Implementation Program	Funding the implementation of the water enterprise asset management system and other costs related to asset management maturity.	2,200		2,200	
211923	A.P. Kennedy Water Treatment Plant - Treated Water Reservoir Expansion	Construction of a new 35-million-litre treated water reservoir at the A.P. Kennedy Water Treatment Plant. Design in 2024.	20,000	20,000		
211951	Snelgrove Elevated Tank - Decommissioning	Decommissioning of the Snelgrove Elevated Tank before the Victoria Reservoir and Transmission Main are in service.	4,000	2,000	2,000	
211974	Beckett Sproule Transfer Pumping Station - Capacity Expansion	Installation of additional transfer pumping capacity at the Beckett Sproule Pumping Station. Approximately 71% funded by York Region.	7,875	2,254		5,621
211978	Beckett Sproule Pumping Station - Improvements and Upgrades	Construction of improvements and upgrades at the Beckett Sproule Pumping Station.	27,400	27,400		
221161	750-mm Water Main - Goreway Drive	Construction of a 750-mm water main on Goreway Drive from Intermodal Drive to Steeles Avenue East.	19,970	19,970		

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description			
221302	Valve Rehabilitation and Replacement Program	Rehabilitation and replacement program for large diameter valves in the lake-based water distribution system. Additional funds.	10,000		10,000
221306	Water Distribution System Pressure Loggers	Refurbishment and installation of new pressure loggers in the water distribution system. Additional funds.	500	100	400
221539	Standby Power Facility Assessment	Review of water facilities to refine list of upgrades identified in the 2019 Standby Power Study.	100	100	
221832	Palgrave - New Groundwater Well	Construction of a new municipal groundwater well in Palgrave to service future development in Palgrave Village and Palgrave Estates. Design in 2023.	4,000	2,000	2,000
221924	A.P. Kennedy Water Treatment Plant - Lake Ontario Monitoring System	Installation of a system to monitor lake currents at the A.P. Kennedy Water Treatment Plant under the Lake Ontario Collaborative Group.	2,850	2,138	713
221934	Lorne Park Water Treatment Plant - Lake Ontario Monitoring System	Installation of a system to monitor lake currents at the Lorne Park Water Treatment Plant under the Lake Ontario Collaborative Group.	2,850	2,138	713
221936	Lorne Park Water Treatment Plant - Electrical Upgrades	Implementation of various electrical upgrades at the Lorne Park Water Treatment Plant.	300		300
221979	Dixie Road Booster Pumping Station - Decommissioning	Decommissioning of the Dixie Road Booster Pumping Station.	500	250	250

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
221987	North Brampton Pumping Station Expansion - Transient Protection	Expansion of the North Brampton Pumping Station with the construction of a new hydro-pneumatic air chamber (HAC) for transient protection. Design in 2024.	2,650	2,650		
221991	Bulk Water Filling Stations - Improvements and Upgrades	Improvements and upgrades for various bulk water filling stations in the Region of Peel.	1,000		1,000	
231016	Water Enterprise Asset Management Implementation Program for OCWA	Funding the implementation of the water enterprise asset management system for OCWA and other costs related to asset management maturity.	450		450	
231174	600-mm Water Main - Clarkway Drive (Highway 427 Industrial)	Construction of a 600-mm water main on Clarkway Drive from Mayfield Road to Countryside Drive.	6,390	6,390		
231195	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from a future street north of Mayfield Road to Healey Road. Design in 2024.	6,594	6,594		
231196	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from Mayfield Road to 1450 metres northerly.	6,743	6,743		
231310	Replacement of Water Mains in Mississauga	Replacement of water mains, system improvements and looping of dead-end mains in Mississauga to improve water quality and reliability of the distribution system.	10,000		10,000	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description			
231340	Replacement of Water Mains in Brampton	Replacement of water mains, system improvements and looping of dead-end mains in Brampton to improve water quality and reliability of the distribution system.	6,000		6,000
231424	1500-mm Streetsville Transmission Main - Rehabilitation	Rehabilitation of the 1500-mm Streetsville Transmission Main.	4,000		4,000
231526	Groundwater Well Structural Casing Analysis	Structural assessment and integrity analysis of municipal groundwater well casings to meet the enhanced requirements of the Ministry of the Environment, Conservation and Parks.	100		100
231527	Feasibility Study for New Groundwater Sources	Feasibility study to investigate new sources of groundwater for Caledon East, Palgrave and Inglewood.	250		250
231942	West Caledon Elevated Tank	Construction of a new 10-million-litre elevated tank in the vicinity of Mississauga Road and Old School Road. Design in 2024.	2,700	2,700	
231975	Water Pumping Station Flow Meter Replacement	Replacement of flow meters at various water pumping stations in Peel.	360		360
231983	Cellular Repeater Installation at the Water Treatment Plants	Installation of cellular repeaters at the water treatment plants for health and safety to provide cellular signal in tunnels and other dead spots.	3,960		3,960

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description			
241000	Unallocated Funds for the Water Program	Funding available for unforeseen, unplanned or emergency water-related works valued under \$250,000.	1,000		1,000
241002	Easement Acquisition for Existing Water Infrastructure	Funding for the acquisition of easements for existing water infrastructure.	100		100
241109	MTSA Water Capacity Improvements	Design for water capacity improvements to service MTSA's across the Region of Peel.	10,000	10,000	
241130	750-mm Water Main - Bovaird Drive West (Heritage Heights)	Construction of a 750-mm water main on Bovaird Drive West from Mississauga Road to Heritage Road. Design in 2024.	1,870	1,870	
241157	400-mm Water Main - Queen Street East	Construction of a 400-mm water main on Queen Street East from the west side of Highway 410 to Kennedy Road. Design in 2024.	2,998	2,998	
241170	750-mm Water Main - Countryside Drive (Highway 427 Industrial)	Construction of a 750-mm water main on Countryside Drive from The Gore Road to Clarkway Drive. Design in 2024.	1,245	1,245	
241171	600-mm Water Main - Countryside Drive (Highway 427 Industrial)	Construction of a 600-mm water main on Countryside Drive from Clarkway Drive to the future north-south road. Design in 2024.	940	940	
241176	400-mm Water Main - Countryside Drive (Highway 427 Industrial)	Construction of a 400-mm water main on Countryside Drive from Coleraine Drive to the future A2 road. Design in 2024.	343	343	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description		
241180	750-mm Water Main - Mississauga Road/Old School Road	Construction of a 750-mm water main on Mississauga Road and Old School Road from the future West Caledon Elevated Tank to Chinguacousy Road. Design in 2024.	2,639	2,639
241182	600-mm Water Main - Chinguacousy Road	Construction of a 600-mm water main on Chinguacousy Road from Old School Road to 2080 metres southerly. Design in 2024.	2,173	2,173
241183	600-mm Water Main - Airport Road (Tullamore)	Construction of a 600-mm water main on Airport Road from Mayfield Road to 1300 metres northerly. Design in 2024.	773	773
241185	600-mm Water Main - Mississauga Road (Alloa)	Construction of a 600-mm water main on Mississauga Road from Mayfield Road to 1600 metres northerly. Design in 2024.	1,071	1,071
241187	400-mm Water Main - McLaughlin Road (Mayfield West Phase 3)	Construction of a 400-mm water main on McLaughlin Road from Old School Road to the south side of the Etobicoke Creek. Design in 2024.	489	489
241188	400-mm Water Main - Creditview Road (Alloa)	Construction of a 400-mm water main on Creditview Road from Mayfield Road to 1600 metres northerly. Design in 2024.	711	711
241190	600-mm Water Main - King Street (West Bolton)	Construction of a 600-mm water main on King Street from the future North Bolton Booster Pumping Station to Humber Station Road. Design in 2024.	1,302	1,302

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
241191	North Bolton Water Distribution System Capacity Improvements	Construction of new water mains on Emil Kolb Parkway, Highway 50 and Columbia Way to service future development in north Bolton. Design in 2024.	3,914	3,522	391	
241192	400-mm Water Main - Healey Road	Construction of a 400-mm water main on Healey Road from Innis Lake Road to Humber Station Road. Design in 2024.	2,194	2,194		
241193	600-mm Water Main - The Gore Road	Construction of a 600-mm water main on The Gore Road from Mayfield Road to Healey Road. Design in 2024.	2,471	2,471		
241194	600-mm Water Main - Humber Station Road and Future Street (Bolton West)	Construction of a 600-mm on a Humber Station Road and a future street from Healey Road to the West Bolton Elevated Tank. Design in 2024.	1,127	1,127		
241197	400-mm Water Main - Innis Lake Road	Construction of a 400-mm water main on Innis Lake Road from the Tullamore Pumping Station to Healey Road. Design in 2024.	1,257	1,257		
241198	300-mm Water Main - Healey Road (Bolton)	Construction of a 300-mm water main on Healey Road from Coleraine Drive to Humber Station Road.	2,032			2,032
241266	North Bolton Transmission Main	Construction of a 1500-mm transmission main from King Street to the North Bolton Booster Pumping Station. Design in 2024.	1,133	1,020	113	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
241267	Healey Road Sub-Transmission Main (Phase 1)	Construction of a 750-mm water main on Healey Road from Coleraine Drive to Humber Station Road.	8,217	8,217		
241268	Healey Road Sub-Transmission Main (Phase 2)	Construction of a 900-mm water main on Healey Road from Innis Lake Road to Humber Station Road. Design in 2024.	4,214	4,214		
241269	Innis Lake Road Sub-Transmission Main	Construction of a 1200-mm water main on Innis Lake Road from the Tullamore Pumping Station to Healey Road. Design in 2024.	2,892	2,892		
241270	West Caledon Transmission Main	Construction of a 750-mm transmission main from the Alloa Pumping Station to the future West Caledon Elevated Tank. Design in 2024.	6,370	6,370		
241300	Water Distribution System - Major Maintenance	Funding for major maintenance of the Region of Peel's water distribution system.	2,100		2,100	
241302	Valve Rehabilitation and Replacement Program	Rehabilitation and replacement program for large diameter valves in the lake-based water distribution system.	5,000		5,000	
241303	Design for the Replacement of Water Mains in Peel	Funding for the design of water main replacement projects in the Region of Peel for the following year to facilitate on-time construction.	4,000		4,000	
241305	Water Distribution System - Condition Assessment Program	Inspection and condition assessment program for the lake-based water distribution system.	300		300	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description			
241310	Replacement of Water Mains in Mississauga	Replacement of water mains, system improvements and looping of dead-end mains in Mississauga to improve water quality and reliability of the distribution system.	18,000	18,000	
241340	Replacement of Water Mains in Brampton	Replacement of water mains, system improvements and looping of dead-end mains in Brampton to improve water quality and reliability of the distribution system.	16,000	16,000	
241370	Replacement of Water Mains in Caledon	Replacement of water mains, system improvements and looping of dead-end mains in Caledon to improve water quality and reliability of the distribution system.	2,000	2,000	
241405	Transmission Main Inspection Program	Inspection and condition assessment program for the lake-based water transmission mains and implementation of real-time monitoring.	3,500	3,500	
241406	Flow Monitoring for the Lake-Based Water Supply System	Installation of flow and pressure monitoring equipment for the lake-based water transmission and distribution systems.	8,000	8,000	
241407	Major Maintenance for the Water Transmission System	Major maintenance for the lake-based water transmission mains.	3,000	3,000	
241408	Transmission Main Rehabilitation Program	Rehabilitation program for the lake-based water transmission mains.	5,000	5,000	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

<u>Project</u>	<u>Name</u>	<u>Description</u>				
241419	Transient Protection Program for the Water Transmission Mains	Program to replace existing transient protection on the lake-based transmission mains.	500		500	
241501	Hydraulic Water Modelling Support	Funding for hydraulic water modelling support for the Division to support day-to-day operations, emergency planning, growth planning and planned shutdowns.	300	150	150	
241520	Non-Growth-Related Water Infrastructure Planning	Asset management and other non-growth-related studies for the Region's water system.	1,000		1,000	
241525	Groundwater Well Monitoring Program	Implementation of an automated system to collect real-time groundwater data for our well-based systems.	300		300	
241530	Development-Related Water Infrastructure Planning	Funding for water infrastructure planning and studies related to new development. Budget increase required to support accelerated growth due to Bill 23.	2,250	2,250		
241531	Water Resources Support to Water Capital Projects	Funding to support water capital projects for any issues related to water resources.	150	90	60	
241532	Source Water Protection	Funding for various activities related to source water protection, including wellhead protection area delineation, risk management, modelling, threats verification and climate change assessments.	300	60	240	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
241540	Water and Wastewater Operations and Optimization Studies	Various studies and investigations related to the efficient operation and optimization of Peel's water and wastewater treatment plants.	500		500	
241541	Review of Treatment Technologies for the Removal of Contaminants of Concern	Study to complete and engineering review of treatment technologies for the removal of contaminants of emerging concern.	300		300	
241565	Meadowvale North Transmission Main - Class Environmental Assessment	Class Environmental Assessment for a new 1800-mm transmission main from the Streetsville Pumping Station to the Meadowvale North Reservoir.	1,500	1,500		
241566	Streetsville Transmission Main - Class Environmental Assessment	Class Environmental Assessment for a 2100-mm new transmission main from the Herridge Pumping Station to the Streetsville Reservoir.	1,500	1,500		
241590	External Agency Project Impacts on Water Infrastructure	Various studies, investigations and pre-design related to the impacts of external agency projects in Peel's water infrastructure.	100	50	50	
241805	Groundwater Systems - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement for the groundwater systems.	750		750	
241810	Groundwater Systems - Condition Assessment Program	Condition assessment of facilities that are part of the groundwater systems and development of a maintenance plan.	100		100	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
241902	Transmission Facilities - Condition Assessment Program	Condition assessment of the lake-based transmission facilities and development of a maintenance plan.	100		100	
241903	Transmission Facilities - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the lake-based pumping stations, reservoirs and elevated tanks.	2,300		2,300	
241906	A.P. Kennedy Water Treatment Plant - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the A.P. Kennedy Water Treatment Plant.	2,700		2,700	
241907	Lorne Park Water Treatment Plant - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the Lorne Park Water Treatment Plant.	1,700		1,700	
241908	Water Treatment Research and Innovation	Funding for collaborative research and innovation projects to improve the efficiency and effectiveness of treatment operations for the lake-based water system.	350		350	
241909	Replacement of Membrane Filters at the A.P. Kennedy Water Treatment Plant	Replacement program for the membrane filters at the A.P. Kennedy Water Treatment Plant.	9,700		9,700	
241913	Lake Ontario Water Quality Monitoring Program	Funding for the ongoing management, operation and maintenance of the Lake Ontario water quality monitoring program under the Lake Ontario Collaborative Group (LOCG).	755		252	503

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description			
241915	Reservoir Rehabilitation and Improvement Program	Program to rehabilitate and upgrade various reservoirs in the lake-based water supply system.	750		750
241920	A.P. Kennedy Water Treatment Plant - Condition Assessment Program	Condition assessment of the A. P. Kennedy Water Treatment Plant and development of a maintenance plan.	200		200
241921	A.P. Kennedy Water Treatment Plant - OBM1 Process Upgrades	Upgrades to the boiler system and chemical cleaning systems in the OBM1 treatment process at the A.P. Kennedy Water Treatment Plant. Design in 2024.	2,000		2,000
241928	Water Treatment Research and Pilot Facility	Construction of a 1:1000 scale fully functional replica of the treatment processes at the lake-based water treatment plants. Design in 2024.	750		750
241930	Lorne Park Water Treatment Plant - Condition Assessment Program	Condition assessment of the Lorne Park Water Treatment Plant and development of a maintenance plan.	150		150
241969	North Bolton Booster Pumping Station	Construction of a new booster pumping station in the vicinity of King Street and Emil Kolb Parkway. Design in 2024.	1,830	1,647	183
241980	Water and Wastewater Training and Logistics Facility	Construction of a new water and wastewater training and logistics facility at 341 Heart Lake Road South, in conjunction with Real Property Asset Management (RPAM).	10,000	10,000	

2024 Financing Sources and Funding Status (\$'000)

			2024				
Project	Name	Description	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
241981	Improvements to Automation Equipment at the Water Facilities	Funding for various improvements and upgrades to the automation equipment at the water treatment plants.	6,110		6,110		
241985	East Brampton Pumping Station - Hydro-Pneumatic Air Chamber	Construction of a new hydro-pneumatic air chamber (HAC) at the East Brampton Pumping Station. Design in 2024.	2,500	2,500			
251912	Lorne Park Water Treatment Plant - Replacement of Granular Activated Carbon	Replacement program for the granular activated carbon filter media used to mitigate taste and odour at the Lorne Park Water Treatment Plant.	4,200		4,200		
Water			564,165	394,014	161,994	8,157	
181158	400-mm Water Main - Future Inspire Boulevard (Countryside Villages)	Construction of a 400-mm water main on a future street from Bramalea Road to approximately 700 metres westerly.	1,950	1,950			
231137	400-mm Water Main - Future Lagerfeld Drive (Heritage Heights)	Construction of a 400-mm water main on the future extension of Lagerfeld Drive from Mississauga Road to 800 metres westerly.	763	763			
Water Development Services			2,713	2,713			
182394	Queens Elizabeth Way Widening (Cawthra to Etobicoke Creek) - Wastewater Impacts	Replacement or relocation of sanitary sewers in conjunction with the widening of the Queens Elizabeth Way from the Etobicoke Creek to Cawthra Road.	2,200		2,200		

2024 Financing Sources and Funding Status (\$'000)

			2024					
			Total Expense	Development Charges	Reserves & Reserve Funds	External Funding	Debt Funding	
Project	Name	Description						
182905	Sewage Pumping Station Rehabilitation Program (Phase 2)	Rehabilitation, upgrade or replacement of sewage pumping stations in the lake-based wastewater collection system.	15,000		15,000			
182976	McVean Sewage Pumping Station Expansion	Expansion of the McVean Sewage Pumping Station to a firm capacity of 2100 L/s.	10,375	10,375				
192158	600-mm Sanitary Sewer - Malta Avenue/Easement	Construction of a 600-mm sanitary sewer on Malta Avenue and a future easement from the Fletcher's Creek Sanitary Trunk Sewer to Tina Court. Additional funds.	8,600	8,600				
192205	Lining of the West Sanitary Trunk Sewer Twinning	Installation of a protective liner for the entire length of the new West Leg of the West Sanitary Trunk Sewer. Additional funds.	37,000	37,000				
192215	Lakeshore Road West Sanitary Trunk Sewer	Construction of a sanitary trunk sewer on Lakeshore Road West from east of the Credit River to the Jack Darling 1 Sewage Pumping Station.	149,400	119,520	29,880			
192924	G.E. Booth Water Resource Recovery Facility - Automation Consolidation	Consolidation of Supervisory Control and Data Acquisition System (SCADA) equipment and removal of legacy product upgrades at the G.E. Booth Water Resource Recovery Facility.	6,600	1,650	4,950			
192934	Clarkson Water Resource Recovery Facility - Automation Consolidation	Consolidation of Supervisory Control and Data Acquisition System (SCADA) equipment and removal of legacy product upgrades at the Clarkson Water	5,500	1,375	4,125			

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
192940	G.E. Booth Water Resource Recovery Facility - Capacity Restoration	Recovery of 40 million litres per day of liquid treatment capacity to restore the G.E. Booth Water Resource Recovery Facility capacity to 518 ML/d.	8,000	7,256		744
192981	Wastewater System Supervisory Control and Data Acquisition (SCADA) Improvements	Various improvements to the Supervisory Control and Data Acquisition (SCADA) systems at the lake-based wastewater facilities.	1,260	630	630	
202951	Clarkson Water Resource Recovery Facility - Primary Thickening Facility	Construction of a primary treatment thickening facility to support the expansion of the Clarkson Water Resource Recovery Facility.	15,000	15,000		
202961	G.E. Booth Water Resource Recovery Facility - Odour Control Improvements	Implementation of the recommendations of the odour study with the anticipation of additional odour control necessary as redevelopment occurs in the vicinity of the treatment facility.	158,500	150,575	7,925	
212015	Wastewater Enterprise Asset Management Implementation Program	Funding the implementation of the wastewater enterprise asset management system and other costs related to asset management maturity.	2,200		2,200	
212408	Sanitary Trunk Sewer Erosion Risk Management Program	Development and implementation of a program to rehabilitate and protect exposed sanitary trunk sewers within floodplains near watercourses. In coordination with the conservation authorities.	4,000		4,000	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
212444	Upper Cooksville Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Upper Cooksville Creek Sanitary Trunk Sewer from north of Eglinton Avenue West to Burnhamthorpe Road East.	12,000		12,000	
212710	250-mm Sanitary Sewer - Cadetta Road	Construction of a 250-mm sanitary sewer on Cadetta Road from Highway 50 to approximately 477 metres westerly. The project is being conducted as a local improvement.	1,567			1,567
222254	Cawthra Road Sanitary Trunk Sewer (Phase 3)	Construction of a 1500-mm sanitary trunk sewer on Burnhamthorpe Road East from Central Parkway East to Wilcox Road.	900	810	90	
222923	G.E. Booth Water Resource Recovery Facility - Plant 2 Blower Replacement	Replacement of the existing three blowers at Plant 2 with six multi-stage high-efficiency blowers.	20,000	10,000	10,000	
222950	Clarkson Water Resource Recovery Facility Expansion	Expansion of liquids treatment capacity of the Clarkson Water Resource Recovery Facility from 350 to 500 million litres per day.	34,000	34,000		
232016	Water Enterprise Asset Management Implementation Program for OCWA	Funding the implementation of the wastewater enterprise asset management system for OCWA and other costs related to asset management maturity.	450		450	
232126	600-mm Sanitary Sewer - Kingsbridge Garden Circle/Elia Avenue (Uptown Mississauga)	Construction of a 600/675-mm sanitary sewer on Kingsbridge Garden Circle and Elia Avenue from Jenkins Crescent to	1,500	1,500		

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
232129	525-mm Sanitary Sewer - Kirwin Avenue/Little John Lane (Cooksville)	Construction of a 525-mm sanitary sewer on Kirwin Avenue and Little John Lane from Hurontario Street to the Lower Cooksville Creek Sanitary Trunk Sewer.	2,707	2,707		
232150	450-mm Sanitary Sewer - Easement (Bramalea City Centre)	Construction of a 450-mm sanitary sewer in an easement from Central Park Drive and Knightsbridge Road to Kensington Road and Kings Cross Road. Design in 2023.	3,600	3,240	360	
232165	675-mm Sanitary Sewer - Attmar Drive (Bram East)	Construction of a 675-mm sanitary sewer on The Gore Road and Attmar Drive from The Gore Road to Ebenezer Road.	15,710	15,710		
232192	375-mm/450-mm Sanitary Sewer - George Bolton Parkway Extension/Industrial Road	Construction of a 375-mm/450-mm sanitary sewer on the future extension of George Bolton Parkway and Industrial Road. Design in 2023.	1,062	903	159	
232261	Etobicoke Creek Sanitary Trunk Sewer Twinning	Construction of a 1500-mm sanitary trunk sewer in the Etobicoke Creek valley from Kennedy Road to Derry Road East. Design in 2023.	7,500	7,500		
232270	Humber Station Road Sanitary Trunk Sewer (Phase 1)	Construction of a 750-mm sanitary trunk sewer on Humber Station Road from Mayfield Road to 1600 metres northerly.	18,209	18,209		
232271	Humber Station Road Sanitary Trunk Sewer (Phase 2)	Construction of a 750-mm sanitary trunk sewer on Humber Station Road from Healey Road to 1600 metres southerly.	19,657	19,657		

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description			
232272	Clarkway Sanitary Trunk Sewer	Construction of a 750-mm sanitary trunk sewer on Clarkway Drive from Countryside Drive to Mayfield Road.	14,604	14,604	
232300	Local Collection System Repair and Replacement	Funding for sanitary sewer repairs, replacements and relining including alignment of projects with area municipalities and other divisions.	4,500		4,500
232952	Clarkson Water Resource Recovery Facility - Biosolids Expansion	Expansion of the biosolids process at the Clarkson Water Resource Recovery Facility to service growth in the Region of Peel.	22,000	22,000	
232983	Cellular Repeater Installation at the Water Resource Recovery Facilities	Installation of cellular repeaters at the water resource recovery facilities for health and safety to provide cellular signal in tunnels and other dead spots.	3,960		3,960
232995	Peel Energy Strategy		1,000		1,000
242000	Unallocated Funds for the Wastewater Program	Funding available for unforeseen, unplanned or emergency wastewater-related works.	1,000		1,000
242002	Easement Acquisition for Existing Wastewater Infrastructure	Funding for the acquisition of easements for existing wastewater infrastructure.	100		100
242100	Inflow and Infiltration Prevention Program	Program to prevent new sources of inflow and infiltration, including the installation of flow monitors at the sanitary sewer outlets of new subdivisions.	200	200	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description		
242109	MTSA Wastewater Capacity Improvements	Design for wastewater capacity improvements to service MTSA's across the Region of Peel.	10,000	10,000
242115	Wastewater Capacity Improvements in Port Credit	Construction of various new sanitary sewers to increase the capacity of the wastewater collection system in Port Credit. Design in 2024.	4,145	4,145
242125	450-mm Sanitary Sewer - Third Street/West Avenue (Port Credit)	Construction of a 450-mm sanitary sewer on Third Street and on West Avenue from Cawthra Road to Lakeshore Road East. Design in 2024.	367	367
242141	375-mm Sanitary Sewer - Queen Street West (Springbrook)	Construction of a 375-mm sanitary sewer on Queen Street West from Creditview Road to Elbern Markell Drive. Design in 2025.	229	229
242142	525-mm Sanitary Sewer - Queen Street West (Springbrook)	Construction of a 525-mm sanitary sewer on Queen Street West from Elbern Markell Drive to Mississauga Road. Design in 2025.	685	685
242151	Central Brampton Wastewater Capacity Improvements	Various wastewater projects to provide additional capacity to service intensification in central Brampton including the Queen Street Corridor .	16,592	16,592
242166	600-mm Sanitary Sewer - Goreway Drive	Construction of a 600-mm sanitary sewer on Goreway Drive from Mayfield Road to Countryside Drive. Design in 2028.	2,402	2,402

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description		
242167	600-mm Sanitary Sewer - Innis Lake Road	Construction of a 600-mm sanitary sewer on Innis Lake Road from Mayfield Road to 1190 metres northerly. Design in 2028.	1,926	1,926
242176	525-mm Sanitary Sewer - Countryside Drive (Highway 427 Industrial)	Construction of a 525-mm sanitary sewer on Countryside Drive from Clarkway Drive to approximately 690 metres easterly. Design in 2026.	892	892
242182	450-mm Sanitary Sewer - Spiers Giffen Avenue/Abbotside Way (Mayfield West Phase 1)	Construction of a 450-mm sanitary sewer on Spiers Giffen Avenue and Abbotside Way from Heart Lake Road to Dixie Road.	913	913
242183	600-mm Sanitary Sewer - Dixie Road	Construction of a 600-mm sanitary sewer on Dixie Road from south of the creek to Old School Road. Design in 2024.	1,092	1,092
242185	McLaughlin Road Force Main	Construction of a 400-mm sanitary force main on McLaughlin Road from the future McLaughlin Road Sewage Pumping Station to approximately 240 metres southerly. Design in 2024.	955	955
242187	375-mm Sanitary Sewer - Heart Lake Road (Mayfield West Phase 1)	Construction of a 375-mm sanitary sewer on Heart Lake Road from Spiers Giffen Avenue 1350 metres northerly.	408	408
242188	525-mm Sanitary Sewer - McLaughlin Road (Mayfield West Phase 3)	Construction of a 525-mm sanitary sewer on McLaughlin Road from the future McLaughlin Road Sewage Pumping Station to 800 metres	281	281

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description		
242191	375-mm Sanitary Sewer - Columbia Way (North Bolton)	Construction of a 375-mm sanitary sewer on Columbia Way from Mount Hope Road to Highway 50. Design in 2024.	3,518	3,518
242192	525-mm Sanitary Sewer - Highway 50 (North Bolton)	Construction of a 525-mm sanitary sewer on Highway 50 from Columbia Way to Emil Kolb Parkway. Design in 2024.	2,711	2,711
242193	600-mm Sanitary Sewer - Healey Road (Bolton West)	Construction of a 600-mm sanitary sewer on Healey Road from Humber Station Road to Coleraine Drive.	13,386	13,386
242194	675-mm Sanitary Sewer - Humber Station Road	Construction of a 675-mm sanitary sewer on Humber Station Road from Healey Road to King Street. Design in 2024.	1,798	1,798
242195	525-mm Sanitary Sewer - Emil Kolb Parkway (North Bolton)	Construction of a 525-mm sanitary sewer on Emil Kolb Parkway from Highway 50 to the future Humber Sewage Pumping Station. Design in 2024.	3,012	3,012
242196	600-mm Sanitary Sewer - King Street/Emil Kolb Parkway/Coleraine Drive	Construction of a 600-mm sanitary sewer on King Street, Emil Kolb Parkway and Coleraine Drive from Humber Station Road to north of George Bolton Parkway. Design in 2024.	2,948	2,948
242197	Humber Force Main	Construction of twin 400-mm force mains on Emil Kolb Parkway from the Humber Sewage Pumping Station to King Street. Design in 2024.	3,513	3,513

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
242198	250-mm Sanitary Sewer - Healey Road (Bolton)	Construction of a 250-mm sanitary sewer on Healey Road from Coleraine Drive to Humber Station Road.	2,000	2,000		
242223	Heritage Heights Central Sanitary Trunk Sewer (Phase 1)	Construction of a 750-mm sanitary trunk sewer on Bovaird Drive from Mississauga Road to Heritage Road. Design in 2024.	2,525	2,525		
242273	The Gore Road Sanitary Trunk Sewer (Phase 1)	Construction of a 750-mm sanitary trunk sewer on The Gore Road from Mayfield Road to approximately 860 metres southerly. Design in 2024.	1,400	1,400		
242274	The Gore Road Sanitary Trunk Sewer (Phase 2)	Construction of a 750-mm sanitary trunk sewer on The Gore Road from Mayfield Road to Healey Road. Design in 2024.	4,308	4,308		
242300	Local Collection System Repair and Replacement	Funding for sanitary sewer repairs, replacements and relining including alignment of projects with area municipalities and other divisions.	24,000		24,000	
242301	Implementation of Inflow and Infiltration Remediation Measures	Funding the implementation of remediation measures to reduce inflow and infiltration into the Region's sanitary sewer system.	5,140	2,570	2,570	
242302	Wastewater Collection System - Major Maintenance and Emergency Repairs	Funding for major maintenance of the Region of Peel's wastewater collection system.	1,000		1,000	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

<u>Project</u>	<u>Name</u>	<u>Description</u>				
242303	Design of Sanitary Sewer Repair and Replacement in Peel	Funding for the design of sanitary sewer repair and replacement projects in the Region of Peel for the following year to facilitate on-time construction.	3,500		3,500	
242304	Force Main Inspection and Condition Assessment Program	Periodic and ongoing inspection and condition assessment of the sanitary force mains.	500		500	
242305	Force Main Rehabilitation Program	Periodic and ongoing inspection and condition assessment of the sanitary force mains.	1,250		1,250	
242307	Sanitary Maintenance Hole Rehabilitation Program	Funding to rehabilitate sanitary maintenance holes in the Region's wastewater collection system.	5,000		5,000	
242401	Wastewater Flow and Rainfall Monitoring Program	Installation, operation and maintenance of permanent and temporary flow monitors and rainfall gauges in the Region's lake-based wastewater collection system.	2,850	570	2,280	
242405	Sanitary Trunk Sewer Inspection and Condition Assessment Program	Inspection, cleaning and condition assessment of the lake-based primary collection system.	2,500		2,500	
242407	Sanitary Trunk Sewer Rehabilitation Program	Miscellaneous sanitary trunk sewer rehabilitation activities for the lake-based primary collection system.	2,000		2,000	
242457	GTAA Sanitary Trunk Sewer Rehabilitation	Rehabilitation of Peel-owned sanitary trunk sewers within the GTAA property. Assessment in 2024.	3,000		3,000	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description			
242458	Lakeview Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Lakeview Sanitary Trunk Sewer from the Etobicoke Creek to the inlet to the G.E. Booth Water Resource Recovery Facility.	10,000		10,000
242466	Etobicoke Creek Sanitary Trunk Sewer (East Leg) - Rehabilitation	Rehabilitation of the east leg of the Etobicoke Creek Sanitary Trunk Sewer from north of Steeles Avenue East to Kennedy Road. Assessment in 2024.	3,000		3,000
242501	Hydraulic Wastewater Modelling Support	Funding for hydraulic wastewater modelling support for the Division to support day-to-day operations, emergency planning, growth planning and planned shutdowns.	300	150	150
242511	Wastewater Facilities Decision Support System	Development of a decision support system and lifecycle analysis for wastewater facilities in Peel.	200		200
242512	Inflow and Infiltration Remediation Program	Collection and analysis of data and development of solutions to reduce inflow and infiltration in the sanitary collection system.	2,750	1,375	1,375
242520	Non-Growth-Related Wastewater Infrastructure Planning	Asset management and other non-growth-related studies for the Region's wastewater system.	1,000		1,000
242530	Development-Related Wastewater Infrastructure Planning	Funding for water infrastructure planning and studies related to new development. Budget increase required to support accelerated growth due to Bill 23.	2,250	2,250	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description			
242531	Water Resources Support to the Wastewater Program	Funding to support wastewater capital projects for any issues related to water resources.	150	90	60
242541	Review of Treatment Technologies for the Removal of Contaminants of Concern	Study to complete and engineering review of treatment technologies for the removal of contaminants of emerging concern.	200		200
242590	External Agency Project Impacts on Wastewater Infrastructure	Various studies, investigations and pre-design related to the impacts of external agency projects in Peel's wastewater infrastructure.	100	50	50
242592	East Brampton Wastewater Capacity Improvements - Class Environmental Assessment	Class Environmental Assessment to determine the preferred strategy to defer flows away from the McVean Sewage Pumping Station to service future development in northeast Brampton and southeast Caledon.	3,000	3,000	
242593	Central Brampton Wastewater Capacity Improvements - Class Environmental Assessment	Class Environmental Assessment to develop a wastewater servicing plan for central Brampton.	3,000	3,000	
242904	Sewage Pumping Stations - Condition Assessment Program	Funding for condition assessment of sewage pumping stations in the lake-based wastewater collection system.	1,000		1,000
242905	Sewage Pumping Stations - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the lake-based sewage pumping stations.	2,000		2,000

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description			
242906	Clarkson Water Resource Recovery Facility - Major Maintenance	Funding for planned major maintenance and equipment replacement at the Clarkson Water Resource Recovery Facility.	3,000		3,000
242907	G.E. Booth Water Resource Recovery Facility - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the G.E. Booth Water Resource Recovery Facility.	4,000		4,000
242908	G.E. Booth Water Resource Recovery Facility - Biosolids Major Maintenance	Funding for planned major maintenance and equipment replacement for the biosolids process at the G.E. Booth Water Resource Recovery Facility.	6,750		6,750
242917	G.E. Booth Water Resource Recovery Facility - Site Security Improvements	Removal and replacement of existing site fencing along the east side of the G.E. Booth Water Resource Recovery Facility.	1,000	1,000	
242920	G.E. Booth Water Resource Recovery Facility - Condition Assessment Program	Condition assessment of the G. E. Booth Water Resource Recovery Facility and development of a maintenance plan.	150		150
242922	G.E. Booth Water Resource Recovery Facility Major Capital Improvement - Diffusers	Replacement of the fine bubble diffusers at the G.E. Booth Water Resource Recovery Facility.	2,000		2,000
242928	Wastewater Treatment Research and Pilot Facility	Construction of a 1:1000 scale fully functional replica of the treatment processes at the lake-based water resource recovery facilities. Design in 2024.	750		750

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
242930	Clarkson Water Resource Recovery Facility - Condition Assessment Program	Condition assessment of the Clarkson Water Resource Recovery Facility and development of a maintenance plan.	100		100	
242938	Clarkson Water Resource Recovery Facility - Diffuser and Expansion Joint Replacement	Upgrades and replacement of diffusers at the Clarkson Water Resource Recovery Facility. Design in 2024.	1,500		1,500	
242942	G.E. Booth Water Resource Recovery Facility - Ash Management Facility	Construction of a new ash management facility at the G.E. Booth Water Resource Recovery Facility. Design in 2025.	3,150	3,150		
242947	G.E. Booth Water Resource Recovery Facility - Ash Berm Relocation	Relocation of the ash lagoon berm at the G.E. Booth Water Resource Recovery Facility. Design in 2024.	300	300		
242971	Beach Street Sewage Pumping Station - Rehabilitation and Repurposing	Rehabilitation and repurposing of the Beach Street Sewage Pumping Station. Design in 2024.	2,205	1,764	441	
242980	Jack Darling 3 Sewage Pumping Station	Construction of a new sewage pumping station (Jack Darling 3) at the western end of the Lakeshore West Sanitary Trunk Sewer. Design in 2024.	4,150	3,320	830	
242981	Miscellaneous Supervisory Control and Data Acquisition Improvements for the Wastewater Facilities	Funding for various improvements and upgrades to the automation equipment at the water resource recovery facilities.	2,610		2,610	

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
242984	Humber Sewage Pumping Station	Construction of a new sewage pumping station in the vicinity of Emil Kolb Parkway and Highway 50. Design and property acquisition in 2024.	4,000	4,000		
242985	McLaughlin Sewage Pumping Station	McLaughlin Sewage Pumping Station Construction of a new sewage pumping station near McLaughlin Road and the Etobicoke Creek. Design in 2024.	800	800		
Wastewater			808,020	612,414	193,295	2,311
232174	450-mm/375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 450-mm/375-mm sanitary sewer on a future street from The Gore Road to 900 metres northeasterly. Additional funds.	1,059	1,059		
242103	375-mm Sanitary Sewer - Future Street (Ninth Line Lands)	Construction of a 375-mm sanitary sewer in the Ninth Line Lands on the Future Street A from the Future Street B to the Future Lane C.	1,300	1,300		
242104	450-mm Sanitary Sewer - Future Street (Ninth Line Lands)	Construction of a 450-mm sanitary sewer in the Ninth Line Lands on the Future Street A and Future Street B from the Future Lane C to Ninth Line.	600	600		
242105	450-mm Sanitary Sewer - Ninth Line (Ninth Line Lands)	Construction of a 450-mm sanitary sewer in the Ninth Line Lands on Ninth Line from Foxwood Avenue to 545 metres southerly.	1,000	1,000		

2024 Financing Sources and Funding Status (\$'000)

			2024				
			Total Expense	Development Charges	Reserves & Reserve Funds	External Funding	Debt Funding
Project	Name	Description					
242106	375-mm Sanitary Sewer - Future Street (Ninth Line Lands)	Construction of a 375-mm sanitary sewer on a future street from 225 metres southwest of Ninth Line to 300 metres southwesterly.	1,337	1,337			
Wastewater Development Services			5,296	5,296			
239085	Electric Vehicle Charging Infrastructure	Installation of electrical infrastructure at various Public Works Facilities to accommodate the charging requirements for anticipated Fleet electric vehicle purchases.	2,250		2,250		
239247	Mavis Yard Expansion	Expansion of the Mavis Yard facility to build additional workspace capacity at the Transhelp Mavis Road location to accommodate staff and operations from the existing Copper Road location. This will amalgamate Transhelp staff and operations into a single location from the current 2-facility model. This will also allow for significant growth capacity at the Copper Yard location for other Public Works programs, such as Water, Wastewater and Roads Operations.	1,500	0	1,500		
249020	Vehicle and Gas Powered Equipment	Replacement of regional vehicles and equipment and system upgrades.	8,090	0	8,090		

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description			
249040	Public Works Facility Repair and Maintenance	Planned repairs and replacements at various Public Works facilities as indicated in Building Condition Assessments.	275		275
Operations Support - Tax			12,115	0	12,115
207500	Billing System Upgrade	Upgrade to a new version of billing system, to be implemented, since the current system will no longer be supported effective November 2020.	450		450
209800	Public Works Health & Safety Initiative	To implement a Health & Safety program for Public Works department	560		560
239050	Wolfedale Yard Expansion	Wolfedale Yard is the main Mississauga area Public Works facility for Water/Wastewater operations and also serves as the central fleet maintenance facility for all off-site Mississauga based Region owned vehicles. This project is for the expansion of Wolfedale Yard in order to accommodate growth of Regional fleet parking, maintenance and operational storage requirements.	3,000	2,400	600
247900	Commercial Water Meter Replacement	Replacement of obsolete commercial water meters.	1,800		1,800
247910	Residential Water Meter Replacement	Replacement of obsolete residential water meters.	11,200		11,200

2024 Financing Sources and Funding Status (\$'000)

2024				
<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>

Project	Name	Description				
249013	Technology Initiatives	To maintain Public Works systems, support technology related initiatives/IT enhancements and to sustain technology related work going forward.	1,500		1,500	
249085	Building Information Modeling Implementation (BIM)	WW section need a tool to aid in efficient project data flow with internal and external project stakeholders. BIM is a tool with the capacity to manage information, data, automate processes, control/track information & more, to improve efficiency while maintaining ISO standards compliance. The BIM process & implementation will improve project visibility across W/WW and will allow the Region to have greater involvement in all aspects of asset life cycles & improved asset management along with greater efficiency and cost transparency.	3,500		3,500	
Operations Support - Utility			22,010	2,400	19,610	
Water and Wastewater			1,414,318	1,016,836	387,014	10,467

2024 Ten Year Combined Capital Program (\$'000)

			<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>Yrs 6-10</u>	<u>Gross</u>
Project 121420	Name Rehabilitation and Upgrade of the Queensway Sub-Transmission Main	Description Rehabilitation and upgrade of the Queensway Sub-Transmission Main to provide additional east-west transfer capacity in Pressure Zone 2.	4,000	11,000	0	0	0	0	15,000
131347	System Improvements in Southwest Mississauga	Implementation of system improvements in southwest Mississauga to improve water quality and reliability and to improve residual pressure for customers.	0	5,000	0	0	0	0	5,000
141240	East Brampton Transmission Main Twinning	Construction of a 1500-mm transmission main from the Beckett-Sproule Pumping Station to the East Brampton Reservoir.	56,000	0	0	11,315	0	0	67,315
141256	Williams Parkway Sub-Transmission Main	Construction of a 900-mm Pressure Zone 5 Central sub-transmission main from Dixie Road to the West Brampton Pumping Station.	0	106,000	82,500	0	0	0	188,500
141257	Central Brampton Sub-Transmission Main	Construction of a Pressure Zone 5 Central sub-transmission main from the Beckett-Sproule Pumping Station to the East Brampton Pumping Station.	50,000	0	0	9,276	0	0	59,276
141377	750-mm Water Main - Creditview Road - Rehabilitation	Rehabilitation of the 750-mm water main on Creditview Road. Design in 2024.	2,000	15,000	0	0	0	0	17,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
181184	600-mm Water Main - Hurontario Street	Construction of a 600-mm water main on Hurontario Street from Collingwood Avenue to Dougall Avenue. Additional funds.	0	15,000	0	0	0	0	15,000
181357	600-mm Water Main Replacement - Queen Street West	Replacement of the existing water main from Mill Street South to Haggert Avenue South in downtown Brampton.	6,000	0	0	0	0	0	6,000
181394	Queen Elizabeth Way Widening (Cawthra to East Mall) - Water Impacts	Replacement or relocation of water mains in conjunction with the widening of the Queen Elizabeth Way.	2,200	0	0	0	0	0	2,200
191120	750-mm Water Main - Lakeshore Road West	Construction of a 750-mm water main on Lakeshore Road West from the Lorne Park Water Treatment Plant to Elmwood Avenue.	44,000	0	0	0	0	0	44,000
191156	750-mm Water Main - Centre Street	Construction of a 750-mm water main on Centre Street from Williams Parkway to John Street.	59,000	0	0	0	0	0	59,000
191189	400-mm Water Main - Old School Road	Construction of a 400-mm water main on Old School Road from Heart Lake Road to Dixie Road.	0	2,760	0	0	0	0	2,760
191917	Security Improvements at Lake-Based Water Facilities	Implementation of security improvements at various lake-based and groundwater-based facilities.	1,200	0	0	0	0	0	1,200
201175	400-mm Water Main - Future Street (Highway 427 Industrial)	Construction of a 400-mm water main on a future street from Highway 50 to Coleraine Drive. In conjunction with the new A2 Road.	0	0	0	1,304	0	0	1,304

2024 Ten Year Combined Capital Program (\$'000)

			<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>Yrs 6-10</u>	<u>Gross</u>
Project	Name	Description							
201843	Groundwater Well Facilities - Ultraviolet Disinfection	Installation of ultraviolet disinfection at six of the groundwater well facilities in Caledon.	0	3,400	3,400	0	0	0	6,800
211015	Water Enterprise Asset Management Implementation Program	Funding the implementation of the water enterprise asset management system and other costs related to asset management maturity.	2,200	2,800	2,100	0	0	0	7,100
211430	2100-mm Beckett Sproule Transmission Main - Rehabilitation	Rehabilitation of the 2100-mm Beckett Sproule Transmission Main to repair defects introduced during construction of the water main. Additional funds.	0	3,000	0	0	0	0	3,000
211923	A.P. Kennedy Water Treatment Plant - Treated Water Reservoir Expansion	Construction of a new 35-million-litre treated water reservoir at the A.P. Kennedy Water Treatment Plant. Design in 2024.	20,000	0	148,000	0	0	0	168,000
211951	Snelgrove Elevated Tank - Decommissioning	Decommissioning of the Snelgrove Elevated Tank before the Victoria Reservoir and Transmission Main are in service.	4,000	0	0	0	0	0	4,000
211974	Beckett Sproule Transfer Pumping Station - Capacity Expansion	Installation of additional transfer pumping capacity at the Beckett Sproule Pumping Station. Approximately 71% funded by York Region.	7,875	0	0	0	0	0	7,875
211978	Beckett Sproule Pumping Station - Improvements and Upgrades	Construction of improvements and upgrades at the Beckett Sproule Pumping Station.	27,400	0	0	0	0	0	27,400

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
221125	900-mm/600-mm Water Main - Easement/Rangeview Road (Inspiration Lakeview)	Construction of a 900-mm/600-mm water main in an easement and on Rangeview Road from the A.P. Kennedy Water Treatment Plant to Lakefront Promenade.	0	11,642	0	0	0	0	11,642
221161	750-mm Water Main - Goreway Drive	Construction of a 750-mm water main on Goreway Drive from Intermodal Drive to Steeles Avenue East.	19,970	0	0	0	0	0	19,970
221302	Valve Rehabilitation and Replacement Program	Rehabilitation and replacement program for large diameter valves in the lake-based water distribution system. Additional funds.	10,000	0	0	0	0	0	10,000
221306	Water Distribution System Pressure Loggers	Refurbishment and installation of new pressure loggers in the water distribution system. Additional funds.	500	0	0	0	0	0	500
221539	Standby Power Facility Assessment	Review of water facilities to refine list of upgrades identified in the 2019 Standby Power Study.	100	0	0	0	0	0	100
221832	Palgrave - New Groundwater Well	Construction of a new municipal groundwater well in Palgrave to service future development in Palgrave Village and Palgrave Estates. Design in 2023.	4,000	6,500	0	0	0	0	10,500
221924	A.P. Kennedy Water Treatment Plant - Lake Ontario Monitoring System	Installation of a system to monitor lake currents at the A.P. Kennedy Water Treatment Plant under the Lake Ontario Collaborative Group.	2,850	0	0	0	0	0	2,850

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
221934	Lorne Park Water Treatment Plant - Lake Ontario Monitoring System	Installation of a system to monitor lake currents at the Lorne Park Water Treatment Plant under the Lake Ontario Collaborative Group.	2,850	0	0	0	0	0	2,850
221936	Lorne Park Water Treatment Plant - Electrical Upgrades	Implementation of various electrical upgrades at the Lorne Park Water Treatment Plant.	300	400	0	0	0	0	700
221979	Dixie Road Booster Pumping Station - Decommissioning	Decommissioning of the Dixie Road Booster Pumping Station.	500	0	0	0	0	0	500
221986	Meadowvale North Pumping Station Expansion - Transient Protection	Expansion of the Meadowvale North Pumping Station with the construction of a new hydro-pneumatic air chamber (HAC) for transient protection.	0	0	16,600	0	0	0	16,600
221987	North Brampton Pumping Station Expansion - Transient Protection	Expansion of the North Brampton Pumping Station with the construction of a new hydro-pneumatic air chamber (HAC) for transient protection. Design in 2024.	2,650	0	17,650	0	0	0	20,300
221988	Airport Road Pumping Station Expansion - Transient Protection	Expansion of the Airport Road Pumping Station with the construction of a new hydro-pneumatic air chamber (HAC) for transient protection.	0	0	17,650	0	0	0	17,650
221991	Bulk Water Filling Stations - Improvements and Upgrades	Improvements and upgrades for various bulk water filling stations in the Region of Peel.	1,000	0	0	0	0	0	1,000

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
221992	Hanlan West Pumping Station	Construction of a new pumping station with a logistics, training and storage facility.	0	6,500	0	0	0	0	6,500
231016	Water Enterprise Asset Management Implementation Program for OCWA	Funding the implementation of the water enterprise asset management system for OCWA and other costs related to asset management maturity.	450	0	100	100	100	0	750
231127	600-mm Water Main - Derry Road East	Construction of a 600-mm water main on Derry Road East from Dixie Road to Goreway Drive.	0	27,192	0	0	0	0	27,192
231160	600-mm Water Main - Queen Street East (Bram East)	Construction of a 600-mm water main on Queen Street East from Cherrycrest Drive to the Gore Road.	0	6,381	0	0	0	0	6,381
231162	400-mm Water Main - Queen Street East (Bram East)	Construction of a 400-mm water main on Queen Street East from The Gore Road to Highway 50.	0	1,613	0	0	0	0	1,613
231174	600-mm Water Main - Clarkway Drive (Highway 427 Industrial)	Construction of a 600-mm water main on Clarkway Drive from Mayfield Road to Countryside Drive.	6,390	0	0	0	0	0	6,390
231195	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from a future street north of Mayfield Road to Healey Road. Design in 2024.	6,594	0	0	0	0	0	6,594
231196	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from Mayfield Road to 1450 metres northerly.	6,743	0	0	0	0	0	6,743

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
231227	Queensway Sub-Transmission Main Extension	Construction of a 900-mm/1500-mm sub-transmission main from Haines Road to Dixie Road.	0	42,060	0	0	0	0	42,060
231310	Replacement of Water Mains in Mississauga	Replacement of water mains, system improvements and looping of dead-end mains in Mississauga to improve water quality and reliability of the distribution system.	10,000	0	0	0	0	0	10,000
231340	Replacement of Water Mains in Brampton	Replacement of water mains, system improvements and looping of dead-end mains in Brampton to improve water quality and reliability of the distribution system.	6,000	0	0	0	0	0	6,000
231424	1500-mm Streetsville Transmission Main - Rehabilitation	Rehabilitation of the 1500-mm Streetsville Transmission Main.	4,000	0	0	0	0	0	4,000
231526	Groundwater Well Structural Casing Analysis	Structural assessment and integrity analysis of municipal groundwater well casings to meet the enhanced requirements of the Ministry of the Environment, Conservation and Parks.	100	0	0	0	0	0	100
231527	Feasibility Study for New Groundwater Sources	Feasibility study to investigate new sources of groundwater for Caledon East, Palgrave and Inglewood.	250	0	0	0	0	0	250

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
231830	Caledon East - New Groundwater Well	Construction of a new municipal groundwater well in Caledon East to service future development. Design in 2023.	0	0	9,620	0	0	0	9,620
231942	West Caledon Elevated Tank	Construction of a new 10-million-litre elevated tank in the vicinity of Mississauga Road and Old School Road. Design in 2024.	2,700	0	17,900	0	0	0	20,600
231975	Water Pumping Station Flow Meter Replacement	Replacement of flow meters at various water pumping stations in Peel.	360	0	0	0	0	0	360
231983	Cellular Repeater Installation at the Water Treatment Plants	Installation of cellular repeaters at the water treatment plants for health and safety to provide cellular signal in tunnels and other dead spots.	3,960	0	0	0	0	0	3,960
241000	Unallocated Funds for the Water Program	Funding available for unforeseen, unplanned or emergency water-related works valued under \$250,000.	1,000	1,000	1,000	1,000	1,000	5,000	10,000
241002	Easement Acquisition for Existing Water Infrastructure	Funding for the acquisition of easements for existing water infrastructure.	100	100	100	100	100	500	1,000
241109	MTSA Water Capacity Improvements	Design for water capacity improvements to service MTSA's across the Region of Peel.	10,000	0	0	0	0	0	10,000
241130	750-mm Water Main - Bovaird Drive West (Heritage Heights)	Construction of a 750-mm water main on Bovaird Drive West from Mississauga Road to Heritage Road. Design in 2024.	1,870	0	8,781	0	0	0	10,651

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
241157	400-mm Water Main - Queen Street East	Construction of a 400-mm water main on Queen Street East from the west side of Highway 410 to Kennedy Road. Design in 2024.	2,998	16,485	0	0	0	0	19,483
241170	750-mm Water Main - Countryside Drive (Highway 427 Industrial)	Construction of a 750-mm water main on Countryside Drive from The Gore Road to Clarkway Drive. Design in 2024.	1,245	6,017	0	0	0	0	7,262
241171	600-mm Water Main - Countryside Drive (Highway 427 Industrial)	Construction of a 600-mm water main on Countryside Drive from Clarkway Drive to the future north-south road. Design in 2024.	940	4,378	0	0	0	0	5,318
241176	400-mm Water Main - Countryside Drive (Highway 427 Industrial)	Construction of a 400-mm water main on Countryside Drive from Coleraine Drive to the future A2 road. Design in 2024.	343	1,588	0	0	0	0	1,931
241180	750-mm Water Main - Mississauga Road/Old School Road	Construction of a 750-mm water main on Mississauga Road and Old School Road from the future West Caledon Elevated Tank to Chinguacousy Road. Design in 2024.	2,639	0	12,224	0	0	0	14,863
241182	600-mm Water Main - Chinguacousy Road	Construction of a 600-mm water main on Chinguacousy Road from Old School Road to 2080 metres southerly. Design in 2024.	2,173	0	9,613	0	0	0	11,787

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
241183	600-mm Water Main - Airport Road (Tullamore)	Construction of a 600-mm water main on Airport Road from Mayfield Road to 1300 metres northerly. Design in 2024.	773	0	3,490	0	0	0	4,263
241185	600-mm Water Main - Mississauga Road (Alloa)	Construction of a 600-mm water main on Mississauga Road from Mayfield Road to 1600 metres northerly. Design in 2024.	1,071	0	4,737	0	0	0	5,808
241187	400-mm Water Main - McLaughlin Road (Mayfield West Phase 3)	Construction of a 400-mm water main on McLaughlin Road from Old School Road to the south side of the Etobicoke Creek. Design in 2024.	489	0	2,303	0	0	0	2,792
241188	400-mm Water Main - Creditview Road (Alloa)	Construction of a 400-mm water main on Creditview Road from Mayfield Road to 1600 metres northerly. Design in 2024.	711	0	3,146	0	0	0	3,858
241190	600-mm Water Main - King Street (West Bolton)	Construction of a 600-mm water main on King Street from the future North Bolton Booster Pumping Station to Humber Station Road. Design in 2024.	1,302	0	5,758	0	0	0	7,059
241191	North Bolton Water Distribution System Capacity Improvements	Construction of new water mains on Emil Kolb Parkway, Highway 50 and Columbia Way to service future development in north Bolton. Design in 2024.	3,914	0	20,454	0	0	0	24,368

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
241192	400-mm Water Main - Healey Road	Construction of a 400-mm water main on Healey Road from Innis Lake Road to Humber Station Road. Design in 2024.	2,194	0	12,016	0	0	0	14,211
241193	600-mm Water Main - The Gore Road	Construction of a 600-mm water main on The Gore Road from Mayfield Road to Healey Road. Design in 2024.	2,471	0	13,534	0	0	0	16,006
241194	600-mm Water Main - Humber Station Road and Future Street (Bolton West)	Construction of a 600-mm on a Humber Station Road and a future street from Healey Road to the West Bolton Elevated Tank. Design in 2024.	1,127	0	5,125	0	0	0	6,252
241197	400-mm Water Main - Innis Lake Road	Construction of a 400-mm water main on Innis Lake Road from the Tullamore Pumping Station to Healey Road. Design in 2024.	1,257	0	5,561	0	0	0	6,819
241198	300-mm Water Main - Healey Road (Bolton)	Construction of a 300-mm water main on Healey Road from Coleraine Drive to Humber Station Road.	2,032	0	0	0	0	0	2,032
241266	North Bolton Transmission Main	Construction of a 1500-mm transmission main from King Street to the North Bolton Booster Pumping Station. Design in 2024.	1,133	0	5,013	0	0	0	6,147
241267	Healey Road Sub-Transmission Main (Phase 1)	Construction of a 750-mm water main on Healey Road from Coleraine Drive to Humber Station Road.	8,217	0	0	0	0	0	8,217

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project 241268	Name Healey Road Sub-Transmission Main (Phase 2)	Description Construction of a 900-mm water main on Healey Road from Innis Lake Road to Humber Station Road. Design in 2024.	4,214	0	23,299	0	0	0	27,513
241269	Innis Lake Road Sub-Transmission Main	Construction of a 1200-mm water main on Innis Lake Road from the Tullamore Pumping Station to Healey Road. Design in 2024.	2,892	0	16,009	0	0	0	18,901
241270	West Caledon Transmission Main	Construction of a 750-mm transmission main from the Alloa Pumping Station to the future West Caledon Elevated Tank. Design in 2024.	6,370	0	18,042	0	0	0	24,413
241300	Water Distribution System - Major Maintenance	Funding for major maintenance of the Region of Peel's water distribution system.	2,100	2,100	2,100	2,100	2,100	10,500	21,000
241302	Valve Rehabilitation and Replacement Program	Rehabilitation and replacement program for large diameter valves in the lake-based water distribution system.	5,000	5,000	5,000	5,000	5,000	25,000	50,000
241303	Design for the Replacement of Water Mains in Peel	Funding for the design of water main replacement projects in the Region of Peel for the following year to facilitate on-time construction.	4,000	4,000	4,000	4,000	4,000	20,000	40,000
241305	Water Distribution System - Condition Assessment Program	Inspection and condition assessment program for the lake-based water distribution system.	300	300	300	300	300	1,500	3,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
241310	Replacement of Water Mains in Mississauga	Replacement of water mains, system improvements and looping of dead-end mains in Mississauga to improve water quality and reliability of the distribution system.	18,000	15,000	15,000	15,000	15,000	75,000	153,000
241340	Replacement of Water Mains in Brampton	Replacement of water mains, system improvements and looping of dead-end mains in Brampton to improve water quality and reliability of the distribution system.	16,000	6,500	6,500	6,500	6,500	32,500	74,500
241370	Replacement of Water Mains in Caledon	Replacement of water mains, system improvements and looping of dead-end mains in Caledon to improve water quality and reliability of the distribution system.	2,000	1,000	1,000	1,000	1,000	5,000	11,000
241405	Transmission Main Inspection Program	Inspection and condition assessment program for the lake-based water transmission mains and implementation of real-time monitoring.	3,500	3,500	3,500	3,500	3,500	17,500	35,000
241406	Flow Monitoring for the Lake-Based Water Supply System	Installation of flow and pressure monitoring equipment for the lake-based water transmission and distribution systems.	8,000	0	24,000	0	0	0	32,000
241407	Major Maintenance for the Water Transmission System	Major maintenance for the lake-based water transmission mains.	3,000	3,000	3,000	3,000	3,000	15,000	30,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
241408	Transmission Main Rehabilitation Program	Rehabilitation program for the lake-based water transmission mains.	5,000	9,000	12,000	12,000	12,000	65,000	115,000
241419	Transient Protection Program for the Water Transmission Mains	Program to replace existing transient protection on the lake-based transmission mains.	500	500	0	0	0	0	1,000
241501	Hydraulic Water Modelling Support	Funding for hydraulic water modelling support for the Division to support day-to-day operations, emergency planning, growth planning and planned shutdowns.	300	300	300	300	300	1,500	3,000
241520	Non-Growth-Related Water Infrastructure Planning	Asset management and other non-growth-related studies for the Region's water system.	1,000	1,000	1,000	1,000	1,000	5,000	10,000
241525	Groundwater Well Monitoring Program	Implementation of an automated system to collect real-time groundwater data for our well-based systems.	300	300	300	300	300	1,500	3,000
241530	Development-Related Water Infrastructure Planning	Funding for water infrastructure planning and studies related to new development. Budget increase required to support accelerated growth due to Bill 23.	2,250	2,250	2,250	2,250	2,250	11,250	22,500
241531	Water Resources Support to Water Capital Projects	Funding to support water capital projects for any issues related to water resources.	150	150	150	150	150	750	1,500

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project 241532	Name Source Water Protection	Description Funding for various activities related to source water protection, including wellhead protection area delineation, risk management, modelling, threats verification and climate change assessments.	300	300	300	300	300	1,500	3,000
241540	Water and Wastewater Operations and Optimization Studies	Various studies and investigations related to the efficient operation and optimization of Peel's water and wastewater treatment plants.	500	500	500	500	500	2,500	5,000
241541	Review of Treatment Technologies for the Removal of Contaminants of Concern	Study to complete and engineering review of treatment technologies for the removal of contaminants of emerging concern.	300	0	0	0	0	0	300
241565	Meadowvale North Transmission Main - Class Environmental Assessment	Class Environmental Assessment for a new 1800-mm transmission main from the Streetsville Pumping Station to the Meadowvale North Reservoir.	1,500	0	0	0	0	0	1,500
241566	Streetsville Transmission Main - Class Environmental Assessment	Class Environmental Assessment for a 2100-mm new transmission main from the Herridge Pumping Station to the Streetsville Reservoir.	1,500	0	0	0	0	0	1,500
241590	External Agency Project Impacts on Water Infrastructure	Various studies, investigations and pre-design related to the impacts of external agency projects in Peel's water infrastructure.	100	100	100	100	100	500	1,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
241805	Groundwater Systems - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement for the groundwater systems.	750	1,000	1,000	1,000	1,250	10,750	15,750
241810	Groundwater Systems - Condition Assessment Program	Condition assessment of facilities that are part of the groundwater systems and development of a maintenance plan.	100	100	100	100	100	500	1,000
241902	Transmission Facilities - Condition Assessment Program	Condition assessment of the lake-based transmission facilities and development of a maintenance plan.	100	100	100	100	100	500	1,000
241903	Transmission Facilities - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the lake-based pumping stations, reservoirs and elevated tanks.	2,300	3,150	3,150	3,150	3,150	15,750	30,650
241906	A.P. Kennedy Water Treatment Plant - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the A.P. Kennedy Water Treatment Plant.	2,700	2,300	2,300	2,300	2,300	11,500	23,400
241907	Lorne Park Water Treatment Plant - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the Lorne Park Water Treatment Plant.	1,700	1,250	1,250	1,250	1,250	6,250	12,950
241908	Water Treatment Research and Innovation	Funding for collaborative research and innovation projects to improve the efficiency and effectiveness of treatment operations for the lake-based water system.	350	350	350	350	350	1,750	3,500

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
241909	Replacement of Membrane Filters at the A.P. Kennedy Water Treatment Plant	Replacement program for the membrane filters at the A.P. Kennedy Water Treatment Plant.	9,700	0	0	21,950	0	21,000	52,650
241913	Lake Ontario Water Quality Monitoring Program	Funding for the ongoing management, operation and maintenance of the Lake Ontario water quality monitoring program under the Lake Ontario Collaborative Group (LOCG).	755	755	755	755	755	3,775	7,550
241915	Reservoir Rehabilitation and Improvement Program	Program to rehabilitate and upgrade various reservoirs in the lake-based water supply system.	750	750	750	0	0	0	2,250
241920	A.P. Kennedy Water Treatment Plant - Condition Assessment Program	Condition assessment of the A.P. Kennedy Water Treatment Plant and development of a maintenance plan.	200	200	200	200	200	1,000	2,000
241921	A.P. Kennedy Water Treatment Plant - OBM1 Process Upgrades	Upgrades to the boiler system and chemical cleaning systems in the OBM1 treatment process at the A.P. Kennedy Water Treatment Plant. Design in 2024.	2,000	5,000	0	0	0	0	7,000
241928	Water Treatment Research and Pilot Facility	Construction of a 1:1000 scale fully functional replica of the treatment processes at the lake-based water treatment plants. Design in 2024.	750	5,000	0	0	0	0	5,750
241930	Lorne Park Water Treatment Plant - Condition Assessment Program	Condition assessment of the Lorne Park Water Treatment Plant and development of a maintenance plan.	150	150	150	150	150	750	1,500

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
241969	North Bolton Booster Pumping Station	Construction of a new booster pumping station in the vicinity of King Street and Emil Kolb Parkway. Design in 2024.	1,830	0	5,250	0	0	0	7,080
241980	Water and Wastewater Training and Logistics Facility	Construction of a new water and wastewater training and logistics facility at 341 Heart Lake Road South, in conjunction with Real Property Asset Management (RPAM).	10,000	0	0	0	0	0	10,000
241981	Improvements to Automation Equipment at the Water Facilities	Funding for various improvements and upgrades to the automation equipment at the water treatment plants.	6,110	3,500	5,500	1,500	1,500	7,500	25,610
241985	East Brampton Pumping Station - Hydro-Pneumatic Air Chamber	Construction of a new hydro-pneumatic air chamber (HAC) at the East Brampton Pumping Station. Design in 2024.	2,500	0	16,550	0	0	0	19,050
251121	750-mm Water Main - Dundas Street East	Construction of a 750-mm water main on Dundas Street East from Tomken Road to Dixie Road. Design in 2025.	0	4,827	0	23,693	0	0	28,521
251124	400-mm Water Main - Camilla Road (Downtown Cooksville)	Construction of a 400-mm water main on Camilla Road from Dundas Street East to King Street East. Design in 2025.	0	1,128	0	5,061	0	0	6,190
251126	750-mm Water Main - Dundas Street East	Construction of a 750-mm water main on Dundas Street East from Tomken Road to Confederation Parkway. Design in 2025.	0	8,918	0	60,549	0	0	69,467

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
251220	Tomken Road/Haines Road Sub-Transmission Main	Construction of a 900-mm sub-transmission main on Tomken Road, Dundas Street East and Haines Road from the Silverthorn Pumping Station to The Queensway East. Design in 2025.	0	13,966	0	75,530	0	0	89,496
251418	1500-mm Herridge Transmission Main - Rehabilitation	Rehabilitation of the 1500-mm Herridge Transmission Main and installation of acoustic fibre optic condition monitoring equipment.	0	2,000	0	7,000	0	0	9,000
251423	2400-mm Hanlan Transmission Main - Rehabilitation	Rehabilitation of the 2400-mm Hanlan Transmission Main following completion of rehabilitation work on the 2100-mm Hanlan Transmission Main. Design in 2024.	0	1,500	0	10,000	0	0	11,500
251575	A.P. Kennedy Water Treatment Plant Expansion - Class Environmental Assessment	Class Environmental Assessment for the expansion of the A.P. Kennedy Water Treatment Plant.	0	3,000	0	0	0	0	3,000
251576	Lorne Park Water Treatment Plant Expansion - Class Environmental Assessment	Class Environmental Assessment for the expansion of the Lorne Park Water Treatment Plant.	0	3,000	0	0	0	0	3,000
251831	Inglewood Village - New Groundwater Well	Construction of a new municipal groundwater well in Inglewood to service future development. Design in 2025.	0	1,700	0	11,400	0	0	13,100

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
251911	A.P. Kennedy Water Treatment Plant - Replacement of Granular Activated Carbon	Replacement program for the granular activated carbon filter media used to mitigate taste and odour at the A.P. Kennedy Water Treatment Plant.	0	5,100	5,550	0	0	5,550	16,200
251912	Lorne Park Water Treatment Plant - Replacement of Granular Activated Carbon	Replacement program for the granular activated carbon filter media used to mitigate taste and odour at the Lorne Park Water Treatment Plant.	4,200	0	0	4,200	0	0	8,400
261123	750-mm Water Main - Atlantic Avenue/Creekbank Road	Construction of a 750-mm water main on Atlantic Avenue and the future extension of Creekbank Road from Britannia Road East to Sismet Road. Design in 2026.	0	0	3,822	0	17,453	0	21,274
261132	400-mm Water Main - Winston Churchill Boulevard	Construction of a 400-mm water main on Winston Churchill Boulevard from Embleton Road to the New Road A. Design in 2026.	0	0	782	0	3,597	0	4,378
261133	600-mm Water Main - Future Williams Parkway (Bram West)	Construction of a 600-mm water main on the future extension of Williams Parkway from Heritage Road to Mississauga Road. Design in 2024.	0	0	1,376	0	6,305	0	7,681
261134	900-mm Water Main - Heritage Road (Heritage Heights)	Construction of a 900-mm water main on Heritage Road from the West Brampton Pumping Station to Bovaird Drive. Design in 2024.	0	0	2,301	0	10,539	0	12,841

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
261135	600-mm Water Main - Heritage Road (Huttonville North)	Construction of a 600-mm water main on Heritage Road from Bovaird Drive northerly to a future street. Design in 2026.	0	0	773	0	3,530	0	4,303
261136	600-mm Water Main - Heritage Road (Huttonville North)	Construction of a 600-mm water main on Heritage Road from the future extension of Sandalwood Parkway southerly to a future street. Design in 2026.	0	0	649	0	3,201	0	3,850
261138	600-mm Water Main - Heritage Road (Bram West)	Construction of a 600-mm water main on Heritage Road from the future extension of Williams Parkway to the New Road A in Bram West. Design in 2024.	0	0	1,738	0	7,908	0	9,646
261172	600-mm Water Main - Future A2 Road (Highway 427 Industrial)	Construction of a 600-mm water main on the future A2 road from Countryside Drive to the future east-west road. Design in 2026.	0	0	1,129	0	5,325	0	6,455
261189	750-mm Water Main - Old School Road	Construction of a 750-mm water main on Old School Road from Chinguacousy Road to Hurontario Street. Design in 2026.	0	0	2,052	0	9,288	0	11,340
261258	Mayfield Road Sub-Transmission Main	Construction of a 900-mm sub-transmission main on Mayfield Road from the North Brampton Reservoir to Innis Lake Road. Design in 2026.	0	0	6,150	0	35,663	0	41,813

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
261503	York-Peel Capital Infrastructure Study	Validation of the replacement costs for the water and wastewater capital infrastructure that are shared by Peel and York Regions.	0	0	100	0	0	100	200
261567	North Brampton Transmission Main Twinning - Class Environmental Assessment	Class Environmental Assessment for a new transmission main from the East Brampton Pumping Station to the North Brampton Reservoir.	0	0	1,500	0	0	0	1,500
261580	Victoria Pumping Station - Class Environmental Assessment	Class Environmental Assessment for a new pumping station at the Victoria Reservoir.	0	0	1,000	0	0	0	1,000
261941	Silverthorn Reservoir Expansion	Expansion of the storage capacity at the Silverthorn facility with the construction of a new reservoir cell. Design in 2026.	0	0	2,200	22,000	0	0	24,200
261954	East Brampton Reservoir - Improvements and Upgrades	Improvements and upgrades at the East Brampton Reservoir.	0	0	35,000	0	0	0	35,000
261962	West Brampton Pumping Station - Capacity Expansion	Installation of additional high-lift pumping capacity at the West Brampton Pumping Station. Design in 2026.	0	0	280	1,700	0	0	1,980
271017	Annual Maintenance of the Enterprise Asset Management System	Funding the ongoing maintenance of the water enterprise asset management system.	0	0	0	1,000	1,000	3,750	5,750

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
271115	Growth-Related Water Mains in the Mississauga City Centre	Construction of various water mains in the Mississauga City Centre to service growth. Design in 2027.	0	0	0	864	0	4,172	5,036
271191	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from a future street north of Healey Road to 1200 metres northerly. Design in 2027.	0	0	0	468	0	2,140	2,608
271228	Streetsville Transmission Main	Construction of a 2100-mm transmission main from the Herridge Pumping Station to the Streetsville Reservoir. Design in 2027.	0	0	0	36,502	0	239,318	275,819
271229	Meadowvale North Transmission Main	Construction of an 1800-mm transmission main from the Streetsville Pumping Station to the Meadowvale North Reservoir. Design in 2027.	0	0	0	45,491	0	293,132	338,623
271568	NewProject!!Please Update	Class Environmental Assessment for a new transmission main from the Beckett Sproule Pumping Station to the Airport Road Reservoir.	0	0	0	1,500	0	0	1,500
271569	Tullamore Transmission Main Twinning - Class Environmental Assessment	Class Environmental Assessment for a new transmission main from the Airport Road Pumping Station to the Tullamore Reservoir.	0	0	0	1,500	0	0	1,500

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
271582	Sandhill Transmission Main, Reservoir and Pumping Station - Class Environmental Assessment	Class Environmental Assessment for a new transmission main, reservoir and pumping station in the vicinity of King Street and Innis Lake Road.	0	0	0	3,000	0	0	3,000
271964	Tullamore Pumping Station Expansion	Expansion of the Tullamore Pumping Station. Design in 2027.	0	0	0	2,700	0	17,777	20,477
271965	Airport Road Reservoir and Pumping Station Expansion	Expansion of the Airport Road Reservoir and Pumping Station. Design in 2027.	0	0	0	6,334	0	52,223	58,557
271982	A.P. Kennedy Water Treatment Plant - Standby Power	Upgrade and expansion of the standby power capacity at the A.P. Kennedy Water Treatment Plant. Design in 2027.	0	0	0	1,160	6,620	6,620	14,400
271984	Transmission System - Standby Power	Upgrade and expansion of the standby power capacity at various water facilities. Design in 2027.	0	0	0	1,160	6,620	6,620	14,400
281259	North Brampton Transmission Main Twinning	Construction of a 1500-mm transmission main on Dixie Road from the East Brampton Pumping Station to the North Brampton Reservoir. Design in 2028.	0	0	0	0	34,310	238,267	272,577
281502	Hydraulic Water Model Update	Update and calibration of the Region's hydraulic water model.	0	0	0	0	2,000	2,000	4,000
281504	Master Plan for the Lake-Based Water Supply System	Review and update of the Region of Peel's Master Plan for the lake-based water supply system.	0	0	0	0	1,500	1,500	3,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
281581	Snelgrove Elevated Tank - Class Environmental Assessment	Class Environmental Assessment for a new elevated tank at the site of the old Snelgrove Elevated Tank.	0	0	0	0	1,500	0	1,500
281583	Macville Transmission Main and Elevated Tank - Class Environmental Assessment	Class Environmental Assessment for a new transmission main and elevated tank in the vicinity of King Street and The Gore Road.	0	0	0	0	3,000	0	3,000
281925	A.P. Kennedy Water Treatment Plant Expansion	Expansion of the A.P. Kennedy Water Treatment Plant. Design in 2028.	0	0	0	0	40,000	400,000	440,000
281963	Victoria Pumping Station	Retrieving data. Wait a few seconds and try to cut or copy again.	0	0	0	0	2,000	13,021	15,021
281995	Future Transient Protection Projects at the Lake-Based Water Facilities	Funding for future transient protection projects at the lake-based water facilities in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	8,470	58,600	67,070
291199	Future Growth-Related Distribution Water Main Projects (Capital)	Funding for growth-related distribution water main projects in the sixth year or later of the Region's capital plan for the Water Program that are managed by Capital Works.	0	0	0	0	0	146,633	146,633
291299	Future Transmission System Projects	Funding for transmission system projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	1,442,120	1,442,120

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
291395	Future System Improvements to Address Low Pressure Issues	Allocation of funding for system improvements to address low pressure issues in the Region of Peel.	0	0	0	0	0	54,549	54,549
291599	Future Growth-Related Water Studies	Funding for growth-related water studies in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	12,500	12,500
291910	Replacement of Membrane Filters at the Lorne Park Water Treatment Plant	Replacement program for the membrane filters at the Lorne Park Water Treatment Plant.	0	0	0	0	0	18,000	18,000
291996	Future Non-Growth-Related Treatment Facility Projects	Funding for future non-growth-related water treatment facilities projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	130,000	130,000
291997	Future Growth-Related Treatment Facility Projects	Funding for growth-related water treatment facilities projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	67,450	67,450
291998	Future Non-Growth-Related Water Facilities Projects	Funding for non-growth-related water facilities projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	418,410	418,410
291999	Future Growth-Related Water Facilities Projects	Funding for growth-related water facilities projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	291,771	291,771

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
Water			564,165	419,362	670,834	436,012	279,434	4,304,247	6,674,054
181158	400-mm Water Main - Future Inspire Boulevard (Countryside Villages)	Construction of a 400-mm water main on a future street from Bramalea Road to approximately 700 metres westerly.	1,950	0	0	0	0	0	1,950
231137	400-mm Water Main - Future Lagerfeld Drive (Heritage Heights)	Construction of a 400-mm water main on the future extension of Lagerfeld Drive from Mississauga Road to 800 metres westerly.	763	0	0	0	0	0	763
251129	Construction of Water Mains in Lakeview Village	Construction of various water mains in the Lakeview Village development area.	0	5,988	0	0	0	0	5,988
251178	400-mm Water Main - Future East-West Road (Highway 427 Industrial)	Construction of a 400-mm water main on the future east-west road from The Gore Road to Clarkway Drive.	0	2,867	0	0	0	0	2,867
251197	400-mm Water Main - Future Extension of George Bolton Parkway	Construction of a 400-mm water main on the future extension of George Bolton Parkway from Coleraine Drive to Humber Station Road.	0	3,000	0	0	0	0	3,000
261186	400-mm Water Main - Future Street (Alloa)	Construction of a 400-mm water main on a future street north of Mayfield Road from Mississauga Road to Creditview Road.	0	0	2,335	0	0	0	2,335
261187	400-mm Water Main - Future Street (Alloa)	Construction of a 400-mm water main on a future street north of Mayfield Road from Creditview Road to Chinguacousy Road.	0	0	2,335	0	0	0	2,335

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
271131	400-mm Water Main - Future Financial Drive (Bram West)	Construction of a 400-mm water main on the future Financial Drive from Heritage Road to Winston Churchill Boulevard.	0	0	0	4,121	0	0	4,121
271173	600-mm Water Main - Future Street (Highway 427 Industrial)	Construction of a 600-mm water main on the future east-west road from Clarkway Drive to the future north-south road.	0	0	0	2,000	0	0	2,000
271179	400-mm Water Main - Future Street (Highway 427 Industrial)	Construction of a 400-mm water main on the future east-west road from Coleraine Drive to the future north-south road.	0	0	0	2,500	0	0	2,500
291198	Future Growth-Related Distribution Water Main Projects (Development)	Funding for growth-related distribution water main projects in the sixth year or later of the Region's capital plan for the Water Program that are managed by Development Services.	0	0	0	0	0	48,866	48,866
Water Development Services			2,713	11,855	4,669	8,621	0	48,866	76,723
142930	Clarkson Water Resource Recovery Facility Major Capital Improvement - Primary Treatment	Replacement of the travelling bridges in the primary settling tanks at the Clarkson Water Resource Recovery Facility.	0	0	6,000	0	0	0	6,000
182252	Cawthra Road Sanitary Trunk Sewer (Phases 2 and 3)	Construction of a 1500-mm sanitary trunk sewer on Cawthra Road from Burnhamthorpe Road East to south of Dundas Street East. Additional funds.	0	10,000	0	0	0	0	10,000

2024 Ten Year Combined Capital Program (\$'000)

			<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>Yrs 6-10</u>	<u>Gross</u>
Project	Name	Description							
182394	Queens Elizabeth Way Widening (Cawthra to Etobicoke Creek) - Wastewater Impacts	Replacement or relocation of sanitary sewers in conjunction with the widening of the Queens Elizabeth Way from the Etobicoke Creek to Cawthra Road.	2,200	0	0	0	0	0	2,200
182905	Sewage Pumping Station Rehabilitation Program (Phase 2)	Rehabilitation, upgrade or replacement of sewage pumping stations in the lake-based wastewater collection system.	15,000	10,000	0	0	0	0	25,000
182976	McVean Sewage Pumping Station Expansion	Expansion of the McVean Sewage Pumping Station to a firm capacity of 2100 L/s.	10,375	0	10,375	0	0	0	20,750
192158	600-mm Sanitary Sewer - Malta Avenue/Easement	Construction of a 600-mm sanitary sewer on Malta Avenue and a future easement from the Fletcher's Creek Sanitary Trunk Sewer to Tina Court. Additional funds.	8,600	0	0	0	0	0	8,600
192205	Lining of the West Sanitary Trunk Sewer Twinning	Installation of a protective liner for the entire length of the new West Leg of the West Sanitary Trunk Sewer. Additional funds.	37,000	0	0	0	0	0	37,000
192208	Upper West Sanitary Trunk Sewer Diversions	Construction of 1500-mm sanitary trunk sewers on Britannia Road, Mississauga Road and Erin Centre Boulevard in the vicinity of Streetsville.	0	150,000	0	0	0	0	150,000
192215	Lakeshore Road West Sanitary Trunk Sewer	Construction of a sanitary trunk sewer on Lakeshore Road West from east of the Credit River to the Jack Darling 1 Sewage Pumping Station.	149,400	0	0	0	0	0	149,400

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project 192924	Name G.E. Booth Water Resource Recovery Facility - Automation Consolidation	Description Consolidation of Supervisory Control and Data Acquisition System (SCADA) equipment and removal of legacy product upgrades at the G.E. Booth Water Resource Recovery Facility.	6,600	2,200	0	0	0	0	8,800
192934	Clarkson Water Resource Recovery Facility - Automation Consolidation	Consolidation of Supervisory Control and Data Acquisition System (SCADA) equipment and removal of legacy product upgrades at the Clarkson Water Resource Recovery Facility.	5,500	1,100	0	0	0	0	6,600
192940	G.E. Booth Water Resource Recovery Facility - Capacity Restoration	Recovery of 40 million litres per day of liquid treatment capacity to restore the G.E. Booth Water Resource Recovery Facility capacity to 518 ML/d.	8,000	0	0	0	0	0	8,000
192981	Wastewater System Supervisory Control and Data Acquisition (SCADA) Improvements	Various improvements to the Supervisory Control and Data Acquisition (SCADA) systems at the lake-based wastewater facilities.	1,260	4,000	0	0	0	0	5,260
202450	East Brampton Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the East Brampton Sanitary Trunk Sewer from Humberwest Parkway north of Queen Street East to north of Steeles Avenue East.	0	25,000	0	0	0	0	25,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
202453	Burnhamthorpe Road East Sanitary Trunk Sewer	Construction of a 1200-mm sanitary trunk sewer on Burnhamthorpe Road East from The Little Etobicoke Creek Sanitary Trunk Sewer to Cawthra Road. Additional funds.	0	6,000	0	0	0	0	6,000
202951	Clarkson Water Resource Recovery Facility - Primary Thickening Facility	Construction of a primary treatment thickening facility to support the expansion of the Clarkson Water Resource Recovery Facility.	15,000	0	0	0	0	0	15,000
202961	G.E. Booth Water Resource Recovery Facility - Odour Control Improvements	Implementation of the recommendations of the odour study with the anticipation of additional odour control necessary as redevelopment occurs in the vicinity of the treatment facility.	158,500	0	0	0	0	0	158,500
212015	Wastewater Enterprise Asset Management Implementation Program	Funding the implementation of the wastewater enterprise asset management system and other costs related to asset management maturity.	2,200	2,800	2,100	0	0	0	7,100
212408	Sanitary Trunk Sewer Erosion Risk Management Program	Development and implementation of a program to rehabilitate and protect exposed sanitary trunk sewers within floodplains near watercourses. In coordination with the conservation authorities.	4,000	0	0	0	0	0	4,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
212444	Upper Cooksville Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Upper Cooksville Creek Sanitary Trunk Sewer from north of Eglinton Avenue West to Burnhamthorpe Road East.	12,000	0	0	0	0	0	12,000
212710	250-mm Sanitary Sewer - Cadetta Road	Construction of a 250-mm sanitary sewer on Cadetta Road from Highway 50 to approximately 477 metres westerly. The project is being conducted as a local improvement.	1,567	0	0	0	0	0	1,567
222254	Cawthra Road Sanitary Trunk Sewer (Phase 3)	Construction of a 1500-mm sanitary trunk sewer on Burnhamthorpe Road East from Central Parkway East to Wilcox Road.	900	33,000	0	0	0	0	33,900
222255	Queensway East Sanitary Trunk Sewer	Construction of a 1800-mm sanitary trunk sewer on The Queensway from Hurontario Street to the East Sanitary Trunk Sewer south of The Queensway.	0	0	145,693	0	0	0	145,693
222256	Cawthra Road Sanitary Trunk Sewer (Phase 4)	Construction of a 1500-mm sanitary trunk sewer on Cawthra Road from Dundas Street to The Queensway East.	0	0	27,249	0	0	0	27,249
222321	375-mm Sanitary Sewer - Mississauga Road (Port Credit)	Construction of a 375-mm sanitary sewer on Mississauga Road from the Indian Road Sewage Pumping Station to Lakeshore Road West.	0	1,050	0	5,525	0	0	6,575

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project 222456	Name Lower Cooksville Creek Sanitary Trunk Sewer - Rehabilitation	Description Rehabilitation of the Lower Cooksville Creek Sanitary Trunk Sewer from Burnhamthorpe Road East to The Queensway.	0	8,000	0	0	0	0	8,000
222923	G.E. Booth Water Resource Recovery Facility - Plant 2 Blower Replacement	Replacement of the existing three blowers at Plant 2 with six multi- stage high-efficiency blowers.	20,000	0	0	0	0	0	20,000
222944	G.E. Booth Water Resource Recovery Facility Expansion - New Outfall	Construction of a new outfall at the G.E. Booth Water Resource Recovery Facility to accommodate a peak flow of 2,000 million litres per day.	0	3,000	0	184,000	0	0	187,000
222950	Clarkson Water Resource Recovery Facility Expansion	Expansion of liquids treatment capacity of the Clarkson Water Resource Recovery Facility from 350 to 500 million litres per day.	34,000	72,500	272,000	0	0	0	378,500
232016	Water Enterprise Asset Management Implementation Program for OCWA	Funding the implementation of the wastewater enterprise asset management system for OCWA and other costs related to asset management maturity.	450	0	100	100	100	0	750
232126	600-mm Sanitary Sewer - Kingsbridge Garden Circle/Elia Avenue (Uptown Mississauga)	Construction of a 600/675-mm sanitary sewer on Kingsbridge Garden Circle and Elia Avenue from Jenkins Crescent to Sorrento Drive.	1,500	5,595	0	0	0	0	7,095

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
232129	525-mm Sanitary Sewer - Kirwin Avenue/Little John Lane (Cooksville)	Construction of a 525-mm sanitary sewer on Kirwin Avenue and Little John Lane from Hurontario Street to the Lower Cooksville Creek Sanitary Trunk Sewer.	2,707	0	0	0	0	0	2,707
232150	450-mm Sanitary Sewer - Easement (Bramalea City Centre)	Construction of a 450-mm sanitary sewer in an easement from Central Park Drive and Knightsbridge Road to Kensington Road and Kings Cross Road. Design in 2023.	3,600	0	0	0	0	0	3,600
232165	675-mm Sanitary Sewer - Attmar Drive (Bram East)	Construction of a 675-mm sanitary sewer on The Gore Road and Attmar Drive from The Gore Road to Ebenezer Road.	15,710	0	0	0	0	0	15,710
232192	375-mm/450-mm Sanitary Sewer - George Bolton Parkway Extension/Industrial Road	Construction of a 375-mm/450-mm sanitary sewer on the future extension of George Bolton Parkway and Industrial Road. Design in 2023.	1,062	901	0	0	0	0	1,963
232261	Etobicoke Creek Sanitary Trunk Sewer Twinning	Construction of a 1500-mm sanitary trunk sewer in the Etobicoke Creek valley from Kennedy Road to Derry Road East. Design in 2023.	7,500	0	121,286	0	0	0	128,786
232270	Humber Station Road Sanitary Trunk Sewer (Phase 1)	Construction of a 750-mm sanitary trunk sewer on Humber Station Road from Mayfield Road to 1600 metres northerly.	18,209	0	0	0	0	0	18,209

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
232271	Humber Station Road Sanitary Trunk Sewer (Phase 2)	Construction of a 750-mm sanitary trunk sewer on Humber Station Road from Healey Road to 1600 metres southerly.	19,657	0	0	0	0	0	19,657
232272	Clarkway Sanitary Trunk Sewer	Construction of a 750-mm sanitary trunk sewer on Clarkway Drive from Countryside Drive to Mayfield Road.	14,604	0	0	0	0	0	14,604
232300	Local Collection System Repair and Replacement	Funding for sanitary sewer repairs, replacements and relining including alignment of projects with area municipalities and other divisions.	4,500	0	0	0	0	0	4,500
232465	Spring Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Spring Creek Sanitary Trunk Sewer from Steeles Avenue East to north of Clark Boulevard.	0	5,000	0	0	0	0	5,000
232468	Etobicoke Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Etobicoke Creek Sanitary Trunk Sewer from Conservation Drive to Archdekin Park.	0	0	15,000	0	0	0	15,000
232952	Clarkson Water Resource Recovery Facility - Biosolids Expansion	Expansion of the biosolids process at the Clarkson Water Resource Recovery Facility to service growth in the Region of Peel.	22,000	25,000	167,600	0	83,790	119,080	417,470
232983	Cellular Repeater Installation at the Water Resource Recovery Facilities	Installation of cellular repeaters at the water resource recovery facilities for health and safety to provide cellular signal in tunnels and other dead spots.	3,960	0	0	0	0	0	3,960

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
232995	Peel Energy Strategy		1,000	0	0	0	0	0	1,000
242000	Unallocated Funds for the Wastewater Program	Funding available for unforeseen, unplanned or emergency wastewater-related works.	1,000	1,000	1,000	1,000	1,000	5,000	10,000
242002	Easement Acquisition for Existing Wastewater Infrastructure	Funding for the acquisition of easements for existing wastewater infrastructure.	100	100	100	100	100	500	1,000
242100	Inflow and Infiltration Prevention Program	Program to prevent new sources of inflow and infiltration, including the installation of flow monitors at the sanitary sewer outlets of new subdivisions.	200	200	200	200	200	1,000	2,000
242109	MTSA Wastewater Capacity Improvements	Design for wastewater capacity improvements to service MTSA's across the Region of Peel.	10,000	0	0	0	0	0	10,000
242115	Wastewater Capacity Improvements in Port Credit	Construction of various new sanitary sewers to increase the capacity of the wastewater collection system in Port Credit. Design in 2024.	4,145	0	18,333	0	0	0	22,478
242125	450-mm Sanitary Sewer - Third Street/West Avenue (Port Credit)	Construction of a 450-mm sanitary sewer on Third Street and on West Avenue from Cawthra Road to Lakeshore Road East. Design in 2024.	367	0	1,622	0	0	0	1,988
242141	375-mm Sanitary Sewer - Queen Street West (Springbrook)	Construction of a 375-mm sanitary sewer on Queen Street West from Creditview Road to Elbern Markell Drive. Design in 2025.	229	1,014	0	0	0	0	1,243

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242142	525-mm Sanitary Sewer - Queen Street West (Springbrook)	Construction of a 525-mm sanitary sewer on Queen Street West from Elbern Markell Drive to Mississauga Road. Design in 2025.	685	3,030	0	0	0	0	3,715
242151	Central Brampton Wastewater Capacity Improvements	Various wastewater projects to provide additional capacity to service intensification in central Brampton including the Queen Street Corridor .	16,592	0	0	0	0	0	16,592
242166	600-mm Sanitary Sewer - Goreway Drive	Construction of a 600-mm sanitary sewer on Goreway Drive from Mayfield Road to Countryside Drive. Design in 2028.	2,402	0	10,626	0	0	0	13,028
242167	600-mm Sanitary Sewer - Innis Lake Road	Construction of a 600-mm sanitary sewer on Innis Lake Road from Mayfield Road to 1190 metres northerly. Design in 2028.	1,926	0	8,519	0	0	0	10,445
242176	525-mm Sanitary Sewer - Countryside Drive (Highway 427 Industrial)	Construction of a 525-mm sanitary sewer on Countryside Drive from Clarkway Drive to approximately 690 metres easterly. Design in 2026.	892	3,946	0	0	0	0	4,838
242182	450-mm Sanitary Sewer - Spiers Giffen Avenue/Abbotside Way (Mayfield West Phase 1)	Construction of a 450-mm sanitary sewer on Spiers Giffen Avenue and Abbotside Way from Heart Lake Road to Dixie Road.	913	4,040	0	0	0	0	4,953

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242183	600-mm Sanitary Sewer - Dixie Road	Construction of a 600-mm sanitary sewer on Dixie Road from south of the creek to Old School Road. Design in 2024.	1,092	4,828	0	0	0	0	5,920
242185	McLaughlin Road Force Main	Construction of a 400-mm sanitary force main on McLaughlin Road from the future McLaughlin Road Sewage Pumping Station to approximately 240 metres southerly. Design in 2024.	955	0	4,223	0	0	0	5,178
242187	375-mm Sanitary Sewer - Heart Lake Road (Mayfield West Phase 1)	Construction of a 375-mm sanitary sewer on Heart Lake Road from Spiers Giffen Avenue 1350 metres northerly.	408	1,805	0	0	0	0	2,213
242188	525-mm Sanitary Sewer - McLaughlin Road (Mayfield West Phase 3)	Construction of a 525-mm sanitary sewer on McLaughlin Road from the future McLaughlin Road Sewage Pumping Station to 800 metres northerly. Design in 2024.	281	0	1,242	0	0	0	1,523
242191	375-mm Sanitary Sewer - Columbia Way (North Bolton)	Construction of a 375-mm sanitary sewer on Columbia Way from Mount Hope Road to Highway 50. Design in 2024.	3,518	0	19,263	0	0	0	22,781
242192	525-mm Sanitary Sewer - Highway 50 (North Bolton)	Construction of a 525-mm sanitary sewer on Highway 50 from Columbia Way to Emil Kolb Parkway. Design in 2024.	2,711	0	14,844	0	0	0	17,555

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242193	600-mm Sanitary Sewer - Healey Road (Bolton West)	Construction of a 600-mm sanitary sewer on Healey Road from Humber Station Road to Coleraine Drive.	13,386	0	0	0	0	0	13,386
242194	675-mm Sanitary Sewer - Humber Station Road	Construction of a 675-mm sanitary sewer on Humber Station Road from Healey Road to King Street. Design in 2024.	1,798	0	7,951	0	0	0	9,749
242195	525-mm Sanitary Sewer - Emil Kolb Parkway (North Bolton)	Construction of a 525-mm sanitary sewer on Emil Kolb Parkway from Highway 50 to the future Humber Sewage Pumping Station. Design in 2024.	3,012	0	16,494	0	0	0	19,505
242196	600-mm Sanitary Sewer - King Street/Emil Kolb Parkway/Coleraine Drive	Construction of a 600-mm sanitary sewer on King Street, Emil Kolb Parkway and Coleraine Drive from Humber Station Road to north of George Bolton Parkway. Design in 2024.	2,948	0	13,039	0	0	0	15,987
242197	Humber Force Main	Construction of twin 400-mm force mains on Emil Kolb Parkway from the Humber Sewage Pumping Station to King Street. Design in 2024.	3,513	0	16,263	0	0	0	19,776
242198	250-mm Sanitary Sewer - Healey Road (Bolton)	Construction of a 250-mm sanitary sewer on Healey Road from Coleraine Drive to Humber Station Road.	2,000	0	0	0	0	0	2,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242223	Heritage Heights Central Sanitary Trunk Sewer (Phase 1)	Construction of a 750-mm sanitary trunk sewer on Bovaird Drive from Mississauga Road to Heritage Road. Design in 2024.	2,525	0	13,828	0	0	0	16,353
242273	The Gore Road Sanitary Trunk Sewer (Phase 1)	Construction of a 750-mm sanitary trunk sewer on The Gore Road from Mayfield Road to approximately 860 metres southerly. Design in 2024.	1,400	0	6,191	0	0	0	7,590
242274	The Gore Road Sanitary Trunk Sewer (Phase 2)	Construction of a 750-mm sanitary trunk sewer on The Gore Road from Mayfield Road to Healey Road. Design in 2024.	4,308	0	23,592	0	0	0	27,900
242300	Local Collection System Repair and Replacement	Funding for sanitary sewer repairs, replacements and relining including alignment of projects with area municipalities and other divisions.	24,000	30,000	40,000	55,000	65,000	350,000	564,000
242301	Implementation of Inflow and Infiltration Remediation Measures	Funding the implementation of remediation measures to reduce inflow and infiltration into the Region's sanitary sewer system.	5,140	6,450	5,000	5,000	5,000	29,250	55,840
242302	Wastewater Collection System - Major Maintenance and Emergency Repairs	Funding for major maintenance of the Region of Peel's wastewater collection system.	1,000	1,000	1,000	1,000	1,000	5,000	10,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242303	Design of Sanitary Sewer Repair and Replacement in Peel	Funding for the design of sanitary sewer repair and replacement projects in the Region of Peel for the following year to facilitate on-time construction.	3,500	3,500	3,500	3,500	3,500	17,500	35,000
242304	Force Main Inspection and Condition Assessment Program	Periodic and ongoing inspection and condition assessment of the sanitary force mains.	500	500	500	500	500	2,500	5,000
242305	Force Main Rehabilitation Program	Periodic and ongoing inspection and condition assessment of the sanitary force mains.	1,250	1,250	1,250	1,250	1,250	6,250	12,500
242307	Sanitary Maintenance Hole Rehabilitation Program	Funding to rehabilitate sanitary maintenance holes in the Region's wastewater collection system.	5,000	3,000	3,000	3,000	3,000	15,000	32,000
242401	Wastewater Flow and Rainfall Monitoring Program	Installation, operation and maintenance of permanent and temporary flow monitors and rainfall gauges in the Region's lake-based wastewater collection system.	2,850	2,850	2,850	2,850	2,850	14,250	28,500
242405	Sanitary Trunk Sewer Inspection and Condition Assessment Program	Inspection, cleaning and condition assessment of the lake-based primary collection system.	2,500	2,500	2,500	2,500	2,500	12,500	25,000
242407	Sanitary Trunk Sewer Rehabilitation Program	Miscellaneous sanitary trunk sewer rehabilitation activities for the lake-based primary collection system.	2,000	2,000	2,000	2,000	2,000	10,000	20,000
242457	GTAA Sanitary Trunk Sewer Rehabilitation	Rehabilitation of Peel-owned sanitary trunk sewers within the GTAA property. Assessment in 2024.	3,000	0	8,000	0	0	0	11,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242458	Lakeview Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Lakeview Sanitary Trunk Sewer from the Etobicoke Creek to the inlet to the G.E. Booth Water Resource Recovery Facility.	10,000	0	0	0	0	0	10,000
242466	Etobicoke Creek Sanitary Trunk Sewer (East Leg) - Rehabilitation	Rehabilitation of the east leg of the Etobicoke Creek Sanitary Trunk Sewer from north of Steeles Avenue East to Kennedy Road. Assessment in 2024.	3,000	0	10,000	0	0	0	13,000
242501	Hydraulic Wastewater Modelling Support	Funding for hydraulic wastewater modelling support for the Division to support day-to-day operations, emergency planning, growth planning and planned shutdowns.	300	300	300	300	300	1,500	3,000
242511	Wastewater Facilities Decision Support System	Development of a decision support system and lifecycle analysis for wastewater facilities in Peel.	200	200	0	0	0	0	400
242512	Inflow and Infiltration Remediation Program	Collection and analysis of data and development of solutions to reduce inflow and infiltration in the sanitary collection system.	2,750	3,000	3,000	3,000	3,000	15,000	29,750
242520	Non-Growth-Related Wastewater Infrastructure Planning	Asset management and other non-growth-related studies for the Region's wastewater system.	1,000	1,000	1,000	1,000	1,000	5,000	10,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242530	Development-Related Wastewater Infrastructure Planning	Funding for water infrastructure planning and studies related to new development. Budget increase required to support accelerated growth due to Bill 23.	2,250	2,250	2,250	2,250	2,250	11,250	22,500
242531	Water Resources Support to the Wastewater Program	Funding to support wastewater capital projects for any issues related to water resources.	150	150	150	150	150	750	1,500
242541	Review of Treatment Technologies for the Removal of Contaminants of Concern	Study to complete and engineering review of treatment technologies for the removal of contaminants of emerging concern.	200	0	0	0	0	0	200
242590	External Agency Project Impacts on Wastewater Infrastructure	Various studies, investigations and pre-design related to the impacts of external agency projects in Peel's wastewater infrastructure.	100	100	100	100	100	500	1,000
242592	East Brampton Wastewater Capacity Improvements - Class Environmental Assessment	Class Environmental Assessment to determine the preferred strategy to defer flows away from the McVean Sewage Pumping Station to service future development in northeast Brampton and southeast Caledon.	3,000	0	0	0	0	0	3,000
242593	Central Brampton Wastewater Capacity Improvements - Class Environmental Assessment	Class Environmental Assessment to develop a wastewater servicing plan for central Brampton.	3,000	0	0	0	0	0	3,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242904	Sewage Pumping Stations - Condition Assessment Program	Funding for condition assessment of sewage pumping stations in the lake-based wastewater collection system.	1,000	1,000	1,000	1,000	1,000	5,000	10,000
242905	Sewage Pumping Stations - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the lake-based sewage pumping stations.	2,000	2,000	2,000	2,000	2,000	10,000	20,000
242906	Clarkson Water Resource Recovery Facility - Major Maintenance	Funding for planned major maintenance and equipment replacement at the Clarkson Water Resource Recovery Facility.	3,000	3,000	3,500	3,500	3,500	17,500	34,000
242907	G.E. Booth Water Resource Recovery Facility - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the G.E. Booth Water Resource Recovery Facility.	4,000	4,000	4,000	4,000	4,000	21,500	41,500
242908	G.E. Booth Water Resource Recovery Facility - Biosolids Major Maintenance	Funding for planned major maintenance and equipment replacement for the biosolids process at the G.E. Booth Water Resource Recovery Facility.	6,750	8,000	4,000	8,000	6,500	37,500	70,750
242917	G.E. Booth Water Resource Recovery Facility - Site Security Improvements	Removal and replacement of existing site fencing along the east side of the G.E. Booth Water Resource Recovery Facility.	1,000	5,000	0	0	0	0	6,000
242920	G.E. Booth Water Resource Recovery Facility - Condition Assessment Program	Condition assessment of the G.E. Booth Water Resource Recovery Facility and development of a maintenance plan.	150	150	150	150	150	750	1,500

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242922	G.E. Booth Water Resource Recovery Facility Major Capital Improvement - Diffusers	Replacement of the fine bubble diffusers at the G. E. Booth Water Resource Recovery Facility.	2,000	2,000	2,000	2,000	2,000	0	10,000
242928	Wastewater Treatment Research and Pilot Facility	Construction of a 1:1000 scale fully functional replica of the treatment processes at the lake-based water resource recovery facilities. Design in 2024.	750	5,000	0	0	0	0	5,750
242930	Clarkson Water Resource Recovery Facility - Condition Assessment Program	Condition assessment of the Clarkson Water Resource Recovery Facility and development of a maintenance plan.	100	100	100	100	100	500	1,000
242938	Clarkson Water Resource Recovery Facility - Diffuser and Expansion Joint Replacement	Upgrades and replacement of diffusers at the Clarkson Water Resource Recovery Facility. Design in 2024.	1,500	6,000	0	0	0	0	7,500
242942	G.E. Booth Water Resource Recovery Facility - Ash Management Facility	Construction of a new ash management facility at the G.E. Booth Water Resource Recovery Facility. Design in 2025.	3,150	0	31,500	0	0	0	34,650
242947	G.E. Booth Water Resource Recovery Facility - Ash Berm Relocation	Relocation of the ash lagoon berm at the G.E. Booth Water Resource Recovery Facility. Design in 2024.	300	3,000	0	0	0	0	3,300
242971	Beach Street Sewage Pumping Station - Rehabilitation and Repurposing	Rehabilitation and repurposing of the Beach Street Sewage Pumping Station. Design in 2024.	2,205	0	5,515	0	0	0	7,720

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242980	Jack Darling 3 Sewage Pumping Station	Construction of a new sewage pumping station (Jack Darling 3) at the western end of the Lakeshore West Sanitary Trunk Sewer. Design in 2024.	4,150	0	65,000	0	0	0	69,150
242981	Miscellaneous Supervisory Control and Data Acquisition Improvements for the Wastewater Facilities	Funding for various improvements and upgrades to the automation equipment at the water resource recovery facilities.	2,610	1,000	1,000	1,000	1,000	5,000	11,610
242984	Humber Sewage Pumping Station	Construction of a new sewage pumping station in the vicinity of Emil Kolb Parkway and Highway 50. Design and property acquisition in 2024.	4,000	0	11,000	0	0	0	15,000
242985	McLaughlin Sewage Pumping Station	McLaughlin Sewage Pumping Station Construction of a new sewage pumping station near McLaughlin Road and the Etobicoke Creek. Design in 2024.	800	0	4,000	0	0	0	4,800
252122	450-mm Sanitary Sewer - Easement (Uptown Mississauga)	Construction of a 450-mm sanitary sewer in an easement next to the creek west of Hurontario Street from Kingsbridge Garden Circle to Eglinton Avenue West. Design in 2025.	0	1,531	6,770	0	0	0	8,300
252124	375-mm Sanitary Sewer - Sorrento Drive (Uptown Mississauga)	Construction of a 375-mm sanitary sewer on Sorrento Drive from Elia Avenue to 400 metres northerly. Design in 2025.	0	524	2,317	0	0	0	2,841

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
252135	525-mm Sanitary Sewer - Heritage Road (Bram West)	Construction of a 525-mm sanitary sewer on Heritage Road from the future Financial Drive to 750 metres southerly. Design in 2025.	0	1,058	0	4,680	0	0	5,739
252219	Lower West Sanitary Trunk Sewer Twinning	Construction of a 3000-mm sanitary trunk sewer on Southdown Road and through easements from Lincoln Green Way to the Clarkson Water Resource Recovery Facility. Design in 2025.	0	35,371	0	221,067	0	0	256,437
252256	Bramalea Sanitary Trunk Sewer (Phase 1)	Construction of a 1200-mm sanitary trunk sewer on Steeles Avenue West and Bramalea Road from Torbram Road to Avondale Boulevard. Design in 2025.	0	10,443	0	59,338	0	0	69,782
252263	Kennedy Road Sanitary Trunk Sewer (Phase 1)	Construction of a 1500-mm sanitary trunk sewer on Kennedy Road from the Etobicoke Creek Sanitary Trunk Sewer to Vodden Street East. Design in 2025.	0	25,028	0	156,424	0	0	181,452
252264	Queen Centre Sanitary Trunk Sewer	Construction of a 900-mm sanitary trunk sewer on Queen Street East from Kennedy Road to Rutherford Road. Design in 2025.	0	4,530	0	25,741	0	0	30,271
252268	Castlemore Road Sanitary Trunk Sewer	Construction of a 1500-mm sanitary trunk sewer on Castlemore Road from Highway 50 to Airport Road. Design in 2025.	0	29,156	0	202,470	0	0	231,626

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project 252269	Name Upper East Sanitary Trunk Sewer (Phase 1)	Description Construction of a 2400-mm sanitary trunk sewer on Derry Road East, Torbram Road, Queen Street and Airport Road from the East-West Diversion Sanitary Trunk Sewer to Castlemore Road to service future development in Brampton. Design in 2025.	0	60,783	0	422,101	0	0	482,884
252412	Upper West Sanitary Trunk Sewer (East Leg) - Rehabilitation	Rehabilitation of the east leg of the Upper West Sanitary Trunk Sewer from Britannia Road West to Dundas Street West. Design in 2024.	0	5,000	20,000	20,000	0	0	45,000
252421	Credit Valley Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Credit Valley Sanitary Trunk Sewer from Steeles Avenue West to Highway 401. Assessment in 2025.	0	2,000	10,000	0	0	0	12,000
252455	Mississauga Industrial Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Mississauga Industrial Sanitary Trunk Sewer from Datsun Road to east of Luke Road. Assessment in 2025.	0	2,000	0	6,000	0	0	8,000
252470	Lower Mimico Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Lower Mimico Creek Sanitary Trunk Sewer from west of Goreway Drive to north of Derry Road East. Design in 2025.	0	2,000	0	4,000	0	0	6,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
252563	G.E. Booth Water Resource Recovery Facility Expansion - Class Environmental Assessment	Class Environmental Assessment for the expansion of the G.E. Booth Water Resource Recovery Facility to 600 million litres per day.	0	3,000	0	0	0	0	3,000
252564	Clarkson Water Resource Recovery Facility Expansion - Class Environmental Assessment	Class Environmental Assessment for the expansion of the Clarkson Water Resource Recovery Facility to 600 million litres per day.	0	3,000	0	0	0	0	3,000
252937	Clarkson Water Resource Recovery Facility - Digester Coating Program	Program to install internal coatings in the five digesters at the Clarkson Water Resource Recovery Facility.	0	400	400	400	400	400	2,000
252941	G.E. Booth Water Resource Recovery Facility - Digesters and Beneficial Gas Reuse	Various improvements at the G.E. Booth Water Resource Recovery Facility to implement the recommendations of the Strategic Energy Plan.	0	19,000	0	0	190,000	0	209,000
252949	G.E. Booth Water Resource Recovery Facility - Ultraviolet Disinfection	Installation of ultraviolet disinfection at the outfall of the G.E. Booth Water Resource Recovery Facility. Design in 2025.	0	12,500	0	125,000	0	0	137,500
252982	Lakeview Village Sewage Pumping Station	Construction of a new sewage pumping station (Lakeview Village) at the south end of Hydro Road.	0	26,000	0	0	0	0	26,000
252994	G.E. Booth Water Resource Recovery Facility - Strategic Energy Plan		0	1,313	0	0	0	0	1,313

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
262120	525-mm Sanitary Sewer - Elmwood Avenue South	Construction of a 525-mm sanitary sewer on Elmwood Avenue South from the Elwood Avenue Sewage Pumping Station to Lakeshore Road East. Design in 2025.	0	0	546	2,416	0	0	2,962
262252	Kennedy Road Sanitary Trunk Sewer (Phase 2)	Construction of a 1500-mm sanitary trunk sewer on Kennedy Road from Vodden Street East to Bovaird Drive East. Design in 2026.	0	0	9,321	0	64,731	0	74,052
262253	Bovaird Sanitary Trunk Sewer Diversion	Construction of a 1500-mm sanitary trunk sewer diversion on Bovaird Drive from the Fletcher's Creek Sanitary Trunk Sewer to Kennedy Road. Design in 2026.	0	0	18,141	0	103,073	0	121,213
262322	375-mm Sanitary Sewer - Maple Avenue South (Port Credit)	Construction of a 375-mm sanitary sewer on Maple Avenue South from the former BenMachree Sewage Pumping Station to Lakeshore Road West. Design in 2025.	0	0	2,265	9,050	0	0	11,315
262323	375-mm Sanitary Sewer - Jack Darling Park	Construction of a 375-mm sanitary sewer from the Jack Darling 2 Sewage Pumping Station to the Jack Darling 1 Sewage Pumping Station. Design in 2025.	0	0	2,265	7,920	0	0	10,185
262327	Rosemere Force Main Replacement	Replacement of the Rosemere Force Main with twin 200-mm force mains. Design in 2027.	0	0	1,830	1,830	0	0	3,660

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
262445	East Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the East Sanitary Trunk Sewer from Derry Road East to Dundas Street East. Design in 2026.	0	0	6,000	0	50,000	0	56,000
262447	Little Etobicoke Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Little Etobicoke Creek Sanitary Trunk Sewer from Bloor Street to Dundas Street East. Design in 2026.	0	0	3,000	0	8,000	0	11,000
262448	Little Etobicoke Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Little Etobicoke Creek Sanitary Trunk Sewer from Eglinton Avenue East to Eastgate Parkway. Design in 2026.	0	0	3,000	0	8,000	0	11,000
262467	Etobicoke Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Etobicoke Creek Sanitary Trunk Sewer from Kennedy Road to north of Derry Road East. Assessment in 2026.	0	0	3,500	0	0	15,000	18,500
262469	McVean Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the McVean Sanitary Trunk Sewer from south of Cottrelle Boulevard to north of Ebenezer Road. Assessment in 2026.	0	0	3,000	8,000	0	0	11,000
262943	G.E. Booth Water Resource Recovery Facility - Administration Building	Construction of a new administration building, parking structure, maintenance complex and standby power at the G.E. Booth Water Resource Recovery Facility. Design in 2026.	0	0	2,000	0	20,000	0	22,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
262959	Clarkson Water Resource Recovery Facility - Operations Building	Construction of a new operations building at the Clarkson Water Resource Recovery Facility. Design in 2026.	0	0	800	0	8,000	0	8,800
262972	Replacement of the Rosemere Sewage Pumping Station	Replacement of the Rosemere Sewage Pumping Station. Design in 2026.	0	0	3,500	9,000	0	0	12,500
262978	Decommissioning of Sewage Pumping Stations in Port Credit	Decommissioning of seven sewage pumping stations once the Lakeshore West Sanitary Trunk Sewer and associated infrastructure is in service. Design in 2026.	0	0	3,310	0	6,615	0	9,925
272017	Annual Maintenance of the Enterprise Asset Management System	Funding the ongoing maintenance of the wastewater enterprise asset management system.	0	0	0	1,000	1,000	3,750	5,750
272221	Heritage Heights South Sanitary Trunk Sewer (Phase 1)	Construction of a 750-mm sanitary trunk sewer on the future extension of Williams Parkway from Mississauga Road to Heritage Road. Design in 2027.	0	0	0	5,212	0	23,052	28,263
272254	Hurontario Sanitary Trunk Sewer (Phase 1)	Construction of a 1200-mm sanitary trunk sewer on Hurontario Street from Bovaird Drive to Mayfield Road. Design in 2027.	0	0	0	16,934	0	117,594	134,528
272255	Hurontario Sanitary Trunk Sewer (Phase 2)	Construction of a 1200-mm sanitary trunk sewer on Hurontario Street from Mayfield Road to Old School Road. Design in 2027.	0	0	0	12,702	0	88,212	100,914

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
272449	Little Etobicoke Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Little Etobicoke Creek Sanitary Trunk Sewer from Eastgate Parkway to Bloor Street and from Dundas Street East to the QEW. Assessment in 2027.	0	0	0	3,000	0	8,000	11,000
272595	Mississauga Road North and Churchville	Class Environmental Assessment for new sanitary trunk sewers on Mississauga Road and Steeles Avenue West.	0	0	0	2,000	0	0	2,000
282153	Wastewater Capacity Improvements in the Bramalea GO Station Area	Wastewater capacity improvements in the Bramalea GO Station Area. Design in 2028.	0	0	0	0	2,186	9,668	11,853
282181	450-mm Sanitary Sewer - Chinguacousy Road (Mayfield West Phase 2)	Construction of a 450-mm sanitary sewer on Chinguacousy Road from the future east-west spine road to approximately 850 metres northerly. Design in 2028.	0	0	0	0	1,555	6,877	8,431
282222	Heritage Heights South Sanitary Trunk Sewer (Phase 2)	Construction of a 675-mm sanitary trunk sewer on Heritage Road from 1025 metres south of Bovaird Drive to 955 metres north of Bovaird Drive. Design in 2028.	0	0	0	0	2,598	11,490	14,088
282257	Bramalea Sanitary Trunk Sewer (Phase 2)	Construction of a 1200-mm sanitary trunk sewer on Steeles Avenue West and Bramalea Road from Torbram Road to Avondale Boulevard. Design in 2025.	0	0	0	0	7,578	43,059	50,637

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
282440	CPR Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the CPR Sanitary Trunk Sewer from the Lower Cooksville Creek Sanitary Trunk Sewer to the East Sanitary Trunk Sewer. Assessment in 2028.	0	0	0	0	3,000	15,000	18,000
282502	Hydraulic Wastewater Model Update	Update and calibration of the Region's hydraulic wastewater model.	0	0	0	0	2,500	2,500	5,000
282504	Wastewater Master Servicing Plan Update	Review and update of the Region of Peel's Master Servicing Plan for the lake-based wastewater collection system.	0	0	0	0	1,500	1,500	3,000
282596	Upper East Sanitary Trunk Sewer (Phases 2 and 3) - Class Environmental Assessment	Class Environmental Assessment for new sanitary trunk sewer on Airport Road from Castlemore Road to King Street.	0	0	0	0	1,500	0	1,500
292199	Future Local Collection System Projects (Capital)	Funding for local collection system projects in the sixth year or later of the Region's capital plan for the Wastewater Program that are managed by Capital Wastewater Collection.	0	0	0	0	0	126,273	126,273
292299	Future Primary Collection System Projects	Funding for primary collection system projects in the sixth year or later of the Region's capital plan for the Wastewater Program.	0	0	0	0	0	754,479	754,479

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
292499	Future Sanitary Trunk Sewer Rehabilitation Projects	Funding for future sanitary trunk sewer rehabilitation projects in the sixth year or later of the Region's capital plan for the Wastewater Program.	0	0	0	0	0	200,000	200,000
292599	Future Growth-Related Wastewater Studies	Funding for growth-related wastewater studies in the sixth year or later of the Region's capital plan for the Wastewater Program.	0	0	0	0	0	2,000	2,000
292960	Future Odour and Corrosion Control Facilities	Construction of new odour and corrosion control facilities at various locations in the Region of Peel.	0	0	0	0	0	16,450	16,450
292998	Future Non-Growth-Related Water Resource Recovery Facility Projects	Future non-growth-related Water Resource Recovery Facility projects.	0	0	0	0	0	125,000	125,000
292999	Future Growth-Related Water Resource Recovery Facility Projects	Funding for growth-related water facilities projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	106,865	106,865
Wastewater			808,020	730,044	1,267,863	1,622,360	681,075	2,396,748	7,506,110
232174	450-mm/375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 450-mm/375-mm sanitary sewer on a future street from The Gore Road to 900 metres northeasterly. Additional funds.	1,059	0	0	0	0	0	1,059

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
242103	375-mm Sanitary Sewer - Future Street (Ninth Line Lands)	Construction of a 375-mm sanitary sewer in the Ninth Line Lands on the Future Street A from the Future Street B to the Future Lane C.	1,300	0	0	0	0	0	1,300
242104	450-mm Sanitary Sewer - Future Street (Ninth Line Lands)	Construction of a 450-mm sanitary sewer in the Ninth Line Lands on the Future Street A and Future Street B from the Future Lane C to Ninth Line.	600	0	0	0	0	0	600
242105	450-mm Sanitary Sewer - Ninth Line (Ninth Line Lands)	Construction of a 450-mm sanitary sewer in the Ninth Line Lands on Ninth Line from Foxwood Avenue to 545 metres southerly.	1,000	0	0	0	0	0	1,000
242106	375-mm Sanitary Sewer - Future Street (Ninth Line Lands)	Construction of a 375-mm sanitary sewer on a future street from 225 metres southwest of Ninth Line to 300 metres southwesterly.	1,337	0	0	0	0	0	1,337
252121	Construction of Sanitary Sewers in Lakeview Village	Construction of various sanitary sewers in Lakeview Village.	0	5,648	0	0	0	0	5,648
252123	Lakeview Village Force Mains	Construction of twin 500-mm force mains on Hydro Road from the Lakeview Village Sewage Pumping Station to Lakeshore Road East.	0	5,200	0	0	0	0	5,200
252157	525-mm Sanitary Sewer - Future Street (Countryside Villages)	Construction of a 525-mm sanitary sewer on a future street east of Bramalea Road from the future Inspire Boulevard to Mayfield Road.	0	1,906	0	0	0	0	1,906

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
252159	600-mm Sanitary Sewer - Future Malta Avenue (Uptown Brampton)	Construction of a 600-mm sanitary sewer on the future extension of Malta Avenue from Tina Court to 500 metres northerly.	0	1,076	0	0	0	0	1,076
252170	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street south of Countryside Drive from The Gore Road to 900 metres northeasterly.	0	1,003	0	0	0	0	1,003
252171	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street north of Castlemore Road from Clarkway Drive to 800 metres northeasterly.	0	891	0	0	0	0	891
252175	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street north of Castlemore Road from Clarkway Drive to approximately 1060 metres northeasterly.	0	4,724	0	0	0	0	4,724
252179	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street from The Gore Road to 800 metres easterly.	0	891	0	0	0	0	891
252189	525-mm Sanitary Sewer - McLaughlin Road (Mayfield West Phase 2)	Construction of a 525-mm sanitary sewer on McLaughlin Road from 350 metres north of the future east-west spine road to 420 metres northerly.	0	543	0	0	0	0	543

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
252190	600-mm Sanitary Sewer - Future Street (Tullamore)	Construction of a 600-mm sanitary sewer on a future street west of Airport Road from Mayfield Road to 300 metres northerly.	0	1,395	0	0	0	0	1,395
262152	600-mm Sanitary Sewer - Future Street (Countryside Villages)	Construction of a 600-mm sanitary sewer on a future street west of Airport Road to approximately 1,070 metres northwesterly, north of Countryside Drive.	0	0	5,576	0	0	0	5,576
262155	600-mm Sanitary Sewer - Future Street (Countryside Villages)	Construction of a 600-mm sanitary sewer on a future street west of Airport Road from Mayfield Road to approximately 760 metres southerly.	0	0	4,336	0	0	0	4,336
262168	450-mm Sanitary Sewer - Future Extension of Palleschi Drive (Bram East)	Construction of a 450-mm sanitary sewer on the future extension of Palleschi Drive from Attmar Drive to Queen Street East.	0	0	1,338	0	0	0	1,338
262190	450-mm Sanitary Sewer - Future George Bolton Parkway	Construction of a 450-mm sanitary sewer on the future extension of George Bolton Parkway from Humber Station Road to 700 metres easterly.	0	0	3,235	0	0	0	3,235
272177	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street west of Coleraine Drive from Countryside Drive to 600 metres northerly.	0	0	0	1,000	0	0	1,000

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
272178	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street from Highway 50 to 810 metres northwesterly.	0	0	0	3,610	0	0	3,610
272191	450-mm Sanitary Sewer - Future Street (Bolton West)	Construction of a 450-mm sanitary sewer on a future street from the future extension of George Bolton Parkway to 500 metres northerly.	0	0	0	1,000	0	0	1,000
272192	450-mm Sanitary Sewer - Future Street (Bolton West)	Construction of a 450-mm sanitary sewer on a future street from Humber Station Road to 680 metres easterly, north of Healey Road.	0	0	0	1,500	0	0	1,500
272193	375-mm Sanitary Sewer - Future Street (Bolton West)	Construction of a 375-mm sanitary sewer on a future street from a future street east of Humber Station Road to 780 metres northerly.	0	0	0	1,500	0	0	1,500
282132	450-mm Sanitary Sewer - Future Financial Drive (Bram West)	Construction of a 450-mm sanitary sewer on the future Financial Drive from Heritage Road to approximately 700 metres westerly.	0	0	0	0	3,559	0	3,559
282134	375-mm Sanitary Sewer - Future Street (Bram West)	Construction of a 375-mm sanitary sewer on a future street east of Winston Churchill Boulevard from the future Financial Drive to 700 metres northerly.	0	0	0	0	780	0	780

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
292198	Future Local Collection System Projects (Development)	Funding for local collection system projects in the sixth year or later of the Region's capital plan for the Wastewater Program that are managed by Development Services.	0	0	0	0	0	51,816	51,816
Wastewater Development Services			5,296	23,277	14,484	8,610	4,338	51,816	107,821
239085	Electric Vehicle Charging Infrastructure	Installation of electrical infrastructure at various Public Works Facilities to accommodate the charging requirements for anticipated Fleet electric vehicle purchases.	2,250	0	0	950	0	500	3,700
239247	Mavis Yard Expansion	Expansion of the Mavis Yard facility to build additional workspace capacity at the Transhelp Mavis Road location to accommodate staff and operations from the existing Copper Road location. This will amalgamate Transhelp staff and operations into a single location from the current 2-facility model. This will also allow for significant growth capacity at the Copper Yard location for other Public Works programs, such as Water, Wastewater and Roads Operations.	1,500	0	0	0	0	0	1,500

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project	Name	Description							
249020	Vehicle and Gas Powered Equipment	Replacement of regional vehicles and equipment and system upgrades.	8,090	4,859	8,772	5,342	8,203	43,083	78,347
249040	Public Works Facility Repair and Maintenance	Planned repairs and replacements at various Public Works facilities as indicated in Building Condition Assessments.	275	695	665	927	356	7,316	10,234
Operations Support - Tax			12,115	5,554	9,437	7,219	8,559	50,898	93,782
207500	Billing System Upgrade	Upgrade to a new version of billing system, to be implemented, since the current system will no longer be supported effective November 2020.	450	0	0	0	0	0	450
209800	Public Works Health & Safety Initiative	To implement a Health & Safety program for Public Works department	560	560	600	0	0	0	1,720
239050	Wolfedale Yard Expansion	Wolfedale Yard is the main Mississauga area Public Works facility for Water/Wastewater operations and also serves as the central fleet maintenance facility for all off-site Mississauga based Region owned vehicles. This project is for the expansion of Wolfedale Yard in order to accommodate growth of Regional fleet parking, maintenance and operational storage requirements.	3,000	0	0	0	0	0	3,000
247900	Commercial Water Meter Replacement	Replacement of obsolete commercial water meters.	1,800	1,900	2,000	0	0	0	5,700
247910	Residential Water Meter Replacement	Replacement of obsolete residential water meters.	11,200	11,700	12,200	0	150	6,400	41,650

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project 249013	Name Technology Initiatives	Description To maintain Public Works systems, support technology related initiatives/IT enhancements and to sustain technology related work going forward.	1,500	1,500	1,500	1,500	1,500	7,500	15,000
249085	Building Information Modeling Implementation (BIM)	WW section need a tool to aid in efficient project data flow with internal and external project stakeholders. BIM is a tool with the capacity to manage information, data, automate processes, control/track information & more, to improve efficiency while maintaining ISO standards compliance. The BIM process & implementation will improve project visibility across W/WW and will allow the Region to have greater involvement in all aspects of asset life cycles & improved asset management along with greater efficiency and cost transparency.	3,500	0	0	0	0	0	3,500
257940	Meter Installation Equipment	New equipment (handheld devices) for field staff as part of the switch to electronic work orders.	0	100	0	0	100	100	300

2024 Ten Year Combined Capital Program (\$'000)

			2024	2025	2026	2027	2028	Yrs 6-10	Gross
Project 277930	Name Meter Reading Equipment	Description Upgrade of handheld Meter Reading equipment. Includes obtaining new drive-by computer software to be installed in a vehicle to remotely read RF (remote frequency) water meters while in the vehicle.	0	0	0	220	0	220	440
Operations Support - Utility			22,010	15,760	16,300	1,720	1,750	14,220	71,760
Water and Wastewater			1,414,318	1,205,852	1,983,587	2,084,541	975,156	6,866,795	14,530,249