	Public Works - Water an Wastewater Division	12		•	Assur orm	ance	lss Re Re	oc. #: sued: evised: evision #: ge:	WMS-CO-FR-0764 14-Oct-2014 29-Apr-2025 8.0 1 of 2					
Approved by: Top Management – Tier 2 Continuous Feed Method Watermain Disinfection Initial Form - first form submission Subsequent Form - continuing action [disinfection / sampling failed] All work must be performed in accordance with WMS-OPS-SOP-1109, 1111 or 1709, WMS-CO-FR-0776, and related documents & star Company Performing Disinfection (Contractor or Peel): Project #:														
	ation:													
	I Inspector:		Co	onsultar	nt Inspec	tor:								
	COMPANY PERFORMING DISINFECTION (Contractor or Peel) to complete Sections A, B & C and page 2 <u>in FULL</u> For Disinfection Contractor Use Only (*for all certified Operators)													
	Backflow Test Reports are to be filled out as per Peel requirements and e-mailed to ZZG-BackflowPrevention once complete													
_	Pre-flush: Watermain	N Swabbed	?Y/N by: <u>(co</u>	ntractor	<u>)</u> S	wabbing Da	e (yy/mm/dd): _							
	Initial Flushing (before chlorination) Date (yy/mm/dd): Time (24:00):													
	Achieved flushing velocity of at least 0.91 m/s OR Flushed minimum 3 pipe volumes (check ONE) Post-flush turbidity a: NTU Time (24:00): a Must be ≤1.0 NTU. If so, proceed with disinfection. If >1.0 NTU, test source. Source turbidity b: (if applicable) NTU Time (24:00): b If source ≤1.0 NTU, continue flushing. If source >1.0 NTU, proceed with disinfection													
A	Water Meter Reading	ngs (m³)	Initial:		Final:			Water Used:						
			Name (print)			Signature		Initials	*OWWCO Operator #					
	Operator in Charge													
	Operator/Assistant													
L	Operator/Assistant 2	2												
	Disinfection - Continuous Feed Method Date (yy/mm/dd): Final meter reading in Section A MUST be the same as Initial meter reading in Section B! DO NOT RESET DIGITAL METER! Date (yy/mm/dd):													
	Water Meter Readin		24:00):	Final:	(i.e. time I		Water Used: point residual was measured)							
B	Meets minimum requi	rement of 5	Name (print)			Signature			*OWWCO Operator #					
	Operator in Charge													
	Operator/Assistant 1													
	Operator/Assistant 2	2												
	After Contact Time/Final (dechlorination) Flush Date (yy/mm/dd): Time (24:00): Min 24hr? ★ (Y / N) Final meter reading in Section B MUST be the same as Initial meter reading in Section C * Time (1 st sample point) must be ≥ 24hr after LAST Time in Section B													
	Water Meter Readings (m ³) Initial: Final: Water Used:													
	Maximum allowable $\frac{\text{decrease}^{\dagger}}{\text{increase}}$ of total chlorine residual is 40% of initial chlorine (to a max of 50 mg/L), before flushing: [†] a chlorine $\frac{\text{increase}}{\text{increase}} > 5\%$ is a FAIL COPPER [*] (*see note below Page 2 table) PASS FAIL ^{†A}													
C	If residuals PASS, proceed to flushing After Flush residuals are recorded on Page 2													
	Discharge of water to th	nt must comply with <u>N</u> Name (print)	<u>lunicipa</u>	I <u>Drinking Water Licence Schedule C</u> Signature			Initials	*OWWCO Operator #						
	Operator in Charge													
	Operator/Assistant 1													
	Operator/Assistant 2	2												
Г	CONTRACTOR: Hand over this Form to Region of Peel Operations Staff to check Sections A and B are complete													
	Verification Sampling (Microbiological) All sampling must be performed in accordance with <u>WMS-CO-SOP-1</u>													
D	"Initial" Samples	Date (yy/mm	n/dd) Time (24:00) last sample collected		Sampl	er(s) Employe	e #(s)		OIC Signature					
			first sample collected											
	ID-DE Samples													
L	"16-hr" Samples				Approval to Connect to Distribution System BV Job# (Initial):									
	Approval to Con All sample results ha	ve been rev	viewed 🗌 🛛 Da	ate resu	ults revie	wed (yy/mm/dd)			· · · ·					
F	Approval to Con All sample results ha	ve been rev gulatory limi	viewed Data Data Data Data Data Data Dat	ate resu tandarc	ults revie Is (per <u>M</u>	wed (yy/mm/dd) MS-CO-PR-05) PASS							
E	Approval to Con All sample results ha Results are within reg # If any sample result fa Signature below signifies	ve been rev gulatory limi ails, Forepers that the entire	viewed Da its and pass Peel S son's direction is (che re form was reviewed, a	ate resu tandarc ck all tha i nd all Se	ults revie Is (per <u>W</u> at apply): ections pa	wed (yy/mm/dd) / <u>MS-CO-PR-05</u>	15)PASS Swab							
	Approval to Con All sample results ha Results are within reg # If any sample result fa Signature below signifies Approval is given to conn (Circle One)	ve been rev gulatory limi ails, Forepers that the entire lect the water	viewed Da its and pass Peel S son's direction is (che re form was reviewed, a	ate resu tandarc ck all tha i nd all Se	ults revie Is (per <u>W</u> at apply): ections pa	wed (yy/mm/dd) MS-CO-PR-05 Flush ss requirement	15)PASS Swab] FAIL [#]						
	Approval to Con All sample results ha Results are within reg # If any sample result fa Signature below signifies Approval is given to conn	ve been rev gulatory limi ails, Forepers that the entir lect the water	viewed Da its and pass Peel S son's direction is (cher re form was reviewed, a main to the distribution Name (print)	ate resu tandarc ck all tha nd all Se n system	ults revie ls (per <u>M</u> at apply): ections pa	wed (yy/mm/dd) MS-CO-PR-05 Flush iss requirement Signature	15) PASS Swab s. - PASSED] FAIL [#] □ Sai Sic	nple Disinfect					



Continuous Feed Method Watermain Disinfection

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	Disinfection (Section B)			After "Post" Contact Time (before final flush) (Section C)					After Final (dechlorination) Flush (Section C) Residuals must be tested outside of (i.e. before) verification (microbiological) sampling						
Location	Date Tim (yy/mm/dd) (24:0		Time (24:00) Total Chlorine (mg/L)	Operator Initials	Date (yy/mm/dd)	Lime Cl		ne [= Initial – Post]	Chlorine DECREASE (%) [†] [= (Initial - Post) ÷ Initial x 100%] No decimals, round up 0.5 or above, round down 0.4 and below	Operator Initials	Date (yy/mm/dd)	Time (24:00)	Chlorine (mg/L)		_
		Time (24:00)					Total Chlorine (mg/L)						Free	Total	Operator Initials
1															
2															
3															
4															
5															
6															
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Review & Revision History

Continuous Feed Method Watermain Disinfection

Date	Revision #	Reason for Review/ Revision
14-Oct-2014	0.0	Original Issue
26-Aug-2015	1.0	Revised based upon approved Staff Suggestion, compliance requirements, and formatting improvements
13-Oct-2015	1.1	Revised based upon staff input from first uses of version 1.0 in the field. Direction added for paperwork flow.
11-Oct-2016	2.0	Revised per new 'MOECC Watermain Disinfection Procedure'; added OWWCO Operator # (For Contractor Use Only); added section letters, checkbox at top INITIAL vs SUBSEQUENT, moved direction in event of failure to a footnote, added checkbox for SWABBED to Section A, added Continuing Actions options to Section E, Clarified direction to PM at very bottom.
25-Jul-2017	3.0	Section C: added note chlorine increase is a FAIL. Section C: added checkbox for Copper. Table: added asterisks on 2 headers and a footnote about copper.
08-Sep-2017	3.1	Adjusted form title and edited grey note above Section A. Added "/Assistant" for contractor use in Sections A,B,C and shaded OWWCO# column. Adjusted recipients in highlighted directions at bottom of Page 1.
14-Feb-2018	4.0	Added flushing velocity or 3 volumes to Section A. Added post-flush turbidity limit to Section A. Added signature for approval to connect to system in Section E. Mandated use of digital chlorine test equipment.
10-Oct-2018	5.0	Added note regarding water meter reading requirements (continuous readings – cannot reset), clarified note on post-flush turbidity limit, updated formatting to chlorine residuals table on page 2 and added Disinfection Contractor as recipient of scanned FORM once completed.
24-Dec-2018	5.1	Updated footer and changed titled to document history section.
01-Dec-2020	6.0	Staff Suggestion 2020-74. Updated for Watermain Disinfection Procedure v2.0 (August 2020). Changed section # in table footnote. Added note that WQA may perform sampling and testing. Updated ZZG e-mail address for records and changed Maxxam to BV Labs.
06-May-2021	6.0	Administrative update performed by QA Team to reflect the new numbering convention. Document numbering has been updated for all QA controlled documents reflected within the Water Master List.
26-May-2021	6.1	Updated date format from dd/mm/yy to yy/mm/dd to align with Chain of Custody. Staff Suggestion 2021-41.
18-Jan-22	6.2	Revision date and number updates as per the 2021 DWQMS Internal Audit Finding (NCAP finding 2021-03) and WWIMS Internal Audit Finding (CI-2021- 30)
04-Feb-2022	7.0	Updates to Section A (Initial Flushing) as per Ministry Inspection BMP finding: Removed chlorine residual monitoring of source water, moved Swabbing field to above Section A as it occurs prior to initial flushing and added time stamp for turbidity monitoring. Added BFP Test Report requirement. Staff Suggestion #2021-119.
29-Apr-2025	8.0	Updates to Page 2, Chlorine Decrease Calculation, added instruction for Operators to not use decimal places and round up and round down to the whole number on percentages. Staff Suggestion #2024-134, clarified wording, updated flow/submission of completed form.