

Quality Assurance Form

Doc. #: WMS-CO-FR-0764 Issued: 14-Oct-2014 29-Apr-2025 Revised: Revision #:

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Approved by: Top Management – Tier 2

Initial Fo

Continuous Feed Method Watermain Disinfection United Form - lifst 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 & standard or 1709, which was a standard or 1709, wh										ards					
	mpany Performing Disi														
	cation:														
	el Inspector:														
_										nd page 2 <u>in FULL</u>					
			For D	isinfection Con	tractor	Jse Only	(*for all certifie	d Operators)		· -					
										evention once compl	lete				
_	Pre-flush: Watermain	n Swabbe	d? Y / N	l by: (co	ntracto	<u>r) </u>	Swabbing Da	te (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										e.					
	Source turbidity b: (If a	pplicable) N	TU Tim	e (24:00):		b If sou	rce ≤1.0 NTU, con	tinue flushing. If	source >1.0	NTU, proceed with disinfe	ction.				
Ŋ	Water Meter Readi			Final:			Water L	er Used:							
			Na	me (print)			Signature)	Initials	*OWWCO Operato	or#				
	Operator in Charge														
	Operator/Assistant	1													
	Operator/Assistant	2													
Į	operator// toolotant	=				[l							
	Disinfection - Co	ntinuous	Feed M	1ethod					Date (yy/m	ım/dd):					
1	Final meter reading in Section	n A MUST be th	ne same as	Initial meter reading	g in Sectio		T RESET DIGITAL !			,					
1	Water Meter Readi	 	Final:				Water Used:								
2	Meets minimum requ	L Time (2	24:00):		(i.e. time			sidual was measured)							
ار			Na	me (print)			Signature)	Initials	*OWWCO Operato	or#				
1	Operator in Charge	4													
1	Operator/Assistant														
1	Operator/Assistant	2													
_ [15 0 1 1 = 1														
	After Contact Til							Time (24 sample point) mu	:00): ust be ≥ 24h	00): Min 24hr? [♠] (Y / N) t be ≥ 24hr after <i>LAST</i> Time in Section B					
	Final meter reading in Section B MUST be the same as Initial meter reading in S Water Meter Readings (m³) Initial:					Final:		Jampio Pomi, mo	Water Used:						
	Maximum allowable <u>decrease</u> [†] of total chlorine residual is 40% of initial chlorine (to a max of 50 mg/L), before flushing: † a chlorine <u>increase</u> >5% is a FAIL COPPER* ☐ (*see note below Page 2 table) PASS ☐ FAIL [†] ^☐														
	If residuals PASS, proceed to flushing After Flush residuals are recorded on Page 2														
After flush, residual at all locations is representative of local distribution Must be independently collected from and before micro sampling Discharge of water to the environment must comply with Municipal Drinking Water Licence Schedule C															
	Discharge of water to the	ne environm		t comply with <u>N</u> me (print)	<u>lunicipa</u>	<u>l Drinkin</u>	<u>g Water Licenc</u> Signature		Initials	*OWWCO Operato	or#				
	Operator in Charge			(
	Operator/Assistant	1													
	Operator/Assistant														
L	· ·														
ſ	CONTRA	ACTOR: Han	d over this	s Form to Region	of Peel	Operation	s Staff to check S	ections A and B	are compl	<mark>ete </mark>					
١	Verification Sam	ipling (Microbio	logical) All	sampli	ng mus	t be performe	d in accordar	nce with	WMS-CO-SOP-1107	7				
		Date (yy/r	mm/dd)	Time (24:00)		Samp	ler(s) Employ	ee #(s)		OIC Signature					
ונ	"Initial" Samples			·											
١	"16-hr" Samples			first sample collected											
l															
	Approval to Con	nect to	Distrik	oution Syst	tem	BV Job	# (Initial):		BV Job#	# (16-hr):					
	• •	All sample results have been reviewed Date results reviewed (yy/mm/dd):													
	Results are within regulatory limits and pass Peel Standards (per <u>WMS-CO-PR-0515</u>) PASS FAIL FAIL														
E	# If any sample result f	# If any sample result fails, Foreperson's direction is (check all that apply): Flush Swab Sample Disinfect													
_	Signature below signifies Approval is given to con						ass requirement	ts.							
	(Circle One)		cimain to	Name (print)		•	Signatur	e - PASSED	Siç	gnature - FAILED					
		e		Name (print)						gnature - FAILED					

^ If DISINFECTION fails, start another 'Watermain Disinfection Form', check 'Subsequent Form' box (top) & complete sections A, B, C, D, E

If SAMPLING fails, start another 'Watermain Disinfection Form', check 'Subsequent Form' box (top) & complete sections as per Foreperson direction OPERATIONS STAFF: Scan a copy of this form and email to the Region of Peel Project Manager, Disinfection Contractor, Peel Construction Inspector, ZZG-WWW RegulatoryComplianceRecords and ZZG-WaterQualityInquiries



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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 (yy/mm/dd)	Time (24:00)	Total Chlorine (mg/L)	Operator Initials	Date (yy/mm/dd)	Time (24:00)	Total Chlorine (mg/L)	Chlorine DECREASE [†] * (mg/L) [= 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 Free		Operator Initials		
1																	
2																	
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Review & Revision History

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.

