EDMONTON WATERWORKS MONTHLY REPORT

January 2025

PROVIDING MORE EPCOR

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1.1.1 Operations – Rossdale and E.L. Smith Plants

Plant Bypasses

The number of bypasses shown on Table 1.2.26 “Rossdale Waste Stream Data” and Table 1.2.27 “E.L. Smith Waste Stream Data” include both planned and unplanned bypasses. A planned bypass is any bypass that is planned a minimum of one day ahead of the actual bypass. All other bypasses are considered unplanned.

In January, Rossdale Plant had one planned bypass and no shutdowns.

Date	Type	Bypass Description
Jan 20	Planned	1.1 hour bypass to restore Res Cell 2

In January, E.L. Smith Plant had two planned shutdowns and one unplanned bypass.

Date	Type	Bypass Description
Jan 9	Unplanned	0.66 hour bypass due to Power Outage
Jan 13	Planned	2.08 hour shutdown for maintenance work
Jan 23	Planned	3.43 hour shutdown for maintenance and project work

Clarifier Blowdown Volume

- The clarifier blowdown volume shown on Table 1.2.26 and Table 1.2.27 include estimated plant leakage.

Dechlorination Highlights

- During the month of January, there were zero instances of chlorinated waste released at the outfall structure at Rossdale Water Treatment Plant.
- During the month of January, there were zero instances of chlorinated waste released at the outfall structure at E.L. Smith Water Treatment Plant.

Chemical Dosing Highlights

In January, Rossdale and E.L. Smith Water Treatment Plants did not exceed the Maximum Use in the Standard 60, published by the National Sanitation Foundation and the American National Sanitation Standards Institute (NSF/ANSI) for Alum or Caustic Soda.

Chemicals Used for the Month

CHEMICAL NAME	MANUFACTURER
Aluminum Sulfate 48.5%	Chemtrade
Aqua Ammonia 19%	Univar
Caustic Soda 50%	Chemtrade
Hydrofluorosilicic Acid 25%	Nutrien
Magnafloc LT27AG / Praestol DW27AG	Solenis
Magnafloc LT-7995	Solenis
Phosphoric Acid 75%	Innophos
Sodium Hypochlorite 12%	Univar
Liquid Ammonium Sulphate 41%	Umicore Canada Inc
Salt	Windsor
Sodium Bisulphite 38%	Chemtrade

ENV-1.1.2 EDMONTON INCIDENT REPORT SUMMARY – January 2025

EPCOR Incident Number	Description	Date of Incident	AEPA Reference Number
ENV-20250102-242530-v1	About 76 m^3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. The water drained to the nearby catch basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water The leak was isolated until the repair was completed.	January 2, 2025	436502
ENV-20250103-735840-v1	About 189 m^3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. The water drained to the nearby catch basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water The leak was isolated until the repair was completed.	January 3, 2025	436514
ENV-20250104-060254-v1	An estimated 500 m^3 of potable chlorinated water at +/-1.5ppm was released near or at 4930 Highway 2 Service Road SW, Edmonton to the surface while the transmission main was in operation providing water to regional customers due to a leak on an air vent on the water transmission system inside a chamber. The dechlorinated water drained to the Blackmud Creek. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water. The chlorine levels were continually monitored during this entire duration. The leak was isolated until the repair was completed. Erosion control measures were implemented and in place over the duration of the isolation and repair of the air vent assembly.	January 4, 2025	436544
ENV-20250109-928758-v1	About 48 m^3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. The water drained to the nearby catch	January 9,2025	436677

	basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water The leak was isolated until the repair was completed.		
ENV-20250116-439084-v1	About 179 m^3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. The water drained to the nearby catch basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water The leak was isolated until the repair was completed.	January 14, 2025	436881
ENV-20250116-416201-v1	About 45 m^3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. The water drained to the nearby catch basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water The leak was isolated until the repair was completed.	January 16, 2025	436879
ENV-20250120-304555-v1	About 29 m3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. The water drained to the nearby catch basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water. The leak was isolated until the repair was completed.	January 19, 2025	436943
ENV-20250121-904546-v1).	About 155 m3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. This incident was reported due to possible media attention due to road closures on 99 St. The water drained to the nearby catch basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water. The leak was isolated until the repair was completed.	January 21, 2025	437009

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

ROSSDALE WATER TREATMENT PLANT (LEVEL IV)	
Director, Edmonton Water Treatment Plants	
Senior Manager, Operations	**WT II**
Manager, Operations	**WT III, WWT III**
Title	Alberta Environment Certification Level
Operations Engineer in Training	
Manager, Transmission Operations & Training	WT III
Operator Foreman	WT IV
HEI Foreman	WT IV
Operator Foreman	WT IV
Operator Foreman	WT IV
Operator Foreman	WT IV
Operator Foreman	WT IV
Transmission Foreman	WT III
Training Foreman	WT III
Lead Operator	WT II
Transmisison Operator	WT III
Water Operator	WT II
Lead Operator	WT II
Water Operator	WT III
Water Operator	WT III
Operations Trainer	WT III
Day Foreman	WT IV
Lead Operator	WT II
Lead Operator	WT III
Water Operator	WT III
Water Operator	WT II
Water Operator	WT III
Lead Operator	WT III
Water Operator	WT III, WD II
Water Operator	WT III, WWT III
Water Operator	WT II
Water Operator	WT II, WD II, WWT II, WWC II
Water Operator	WT II, WD I
Water Operator (temp)	WT II, WD II, WWT I, WWC II

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

E.L. SMITH TREATMENT PLANT (LEVEL IV)	
Director, Edmonton Water Treatment Plants	
Senior Manager, Operations	**WT II**
Manager, Operations	
Title	Alberta Environment Certification Level
Operations Engineer	
Operations Engineer	WWC I
Day Foreman	WT IV
HEI Foreman	WT IV
Training Foreman	WT IV
Operator Foreman	WT IV
Operator Foreman	WT IV
Operator Foreman	WT III
Operator Foreman	WT IV
Operator Foreman	WT IV
Lead Operator	WT IV
Lead Operator	WT IV
Lead Operator	WT II
Lead Operator	WT III
Lead Operator	WT III
Lead Operator	WT II, WD II, WWT I, WWC I
Water Operator	WT III
Water Operator	WT III, WWT II,
Water Operator	WT III
Water Operator	WT III, WWT III
Water Operator	WT III
Water Operator	WT II, WD I, WWT II, WWC I

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

DISTRIBUTION SYSTEM (LEVEL IV FACILITY)

WATER DISTRIBUTION (WD) - NETWORK MAINTENANCE

Senior Manager, Maintenance and Construction

Manager, Distribution Maintenance

Manager, Dist. Maint Schedule

Title	Alberta Environment Certification Level
Water Network Operator	WD IV WWC I
Water Network Operator	WD IV
Foreman III	WD III
Foreman III	WD III
Foreman III	WD III
Foreman III	WD III
Foreman III	WD II
Foreman I	WD III WWC I
Foreman I	WD III
Foreman I	WD IV
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Foreman I	WD III
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Equipment Operator III	WD II
Equipment Operator III	WD I
Equipment Operator III	WD II
Equipment Operator III	WD I
Equipment Operator III	WD II
Equipment Operator III	WD I
Equipment Operator III	WD I
Equipment Operator III	WD II
Equipment Operator III	WD II
Equipment Operator III	WD II
Equipment Operator III	WD II
Equipment Operator III	WD I
Equipment Operator III	WD II
Equipment Operator III	WD II
Labourer II	WD II
Labourer II	WD I
Labourer II	WD I
Labourer II	WD I
Labourer III	WD III
Labourer II	WD I
Labourer III	WD I
Labourer II	WD I

Labourer II	WD I

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

DISTRIBUTION SYSTEM (LEVEL IV FACILITY)
WATER DISTRIBUTION (WD) - NETWORK MAINTENANCE

Senior Manager, Maintenance and Construction
Manager, Maintenance and Construction
Manager, Dist. Maint Scheduling

Title	Alberta Environment Certification Level
Truck Driver III	WD I
Labourer II	WD I
Labourer II	WD I
Labourer II	WD I WWC I
Labourer II	WD I WWC I WT I WWT I
Truck Driver III	WD II
Labourer II	WD II
Truck Driver III	WD II
Truck Driver III	WD II
Truck Driver III	WD I
Truck Driver III	WD I
Welder	WD II
Maintenance Repairman I	WD II
Maintenance Repairman I	WD I
Maintenance Repairman I	WD I
Labourer II	WD I
Foreman I	WD I
Water Sys Tech Support Specialist	WD IV

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

DISTRIBUTION SYSTEM (LEVEL IV FACILITY)

WATER DISTRIBUTION (WD) - FIELD OPERATIONS

Senior Manager, Distribution Operations	
Manager, Field Operations	
Manager, Metering and Preventative Maintenance	**WD I**
Manager, Water Trouble	**WD III**
Title	Alberta Environment Certification Level
Foreman III	WD IV
Foreman III	WD IV
Foreman I	WD II
Foreman I	WD II
Labourer III	WD II
Labourer III	WD I
Labourer III	WD I
Labourer III	WD II
Labourer III	WD I
Foreman I	WD I
Labourer III	WD III
Labourer II	WD I
Labourer II	WD II
Labourer II	WD I
Foreman I	WD II
Labourer II	WD I
Labourer III	WD II
Labourer II	WD II
Labourer II	WD I
Labourer III	WD I
Labourer II	WD II WWC I
Foreman III	WD III
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD III
Water Systems Serviceman	WD II
Water Systems Serviceman	WD III
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

DISTRIBUTION SYSTEM (LEVEL IV FACILITY)

WATER DISTRIBUTION (WD) - CUSTOMER SERVICE

Senior Manager, Customer Service

Manager, Dispatch

Manager, Inspections and Customer Service

Title	Alberta Environment Certification Level
Team Lead, Dispatch	
Dispatcher Coordinator	WD I
Dispatcher Coordinator	WD I WWC I WT I WWT I
Inspector – Water Metering	WD II
Inspector – Water Metering	WD I
Manager, Cross Connections	WD II
Inspector – Cross Connections	WD I

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

DISTRIBUTION SYSTEM (LEVEL IV FACILITY)

WATER METERING (WD)

Manager, Metering Operations	**WD I**
Title	Alberta Environment Certification Level
Foreman III	WD II
Meter Installer I	WD I
Meter Installer II	WD III
Meter Installer I	WD I WWC I
Meter Installer I	WD III
Meter Installer I	WD II
Meter Mechanic II	WD II
Meter Installer II	WD I
Meter Installer I	WD I
Meter Installer I	WD I

1.2.1 Raw Water Intake (ML)

January 2025

Day	Rossdale			E.L. Smith	Plants Combined Total
	Plant 1	Plant 2	Plant Total	Plant Total	
1	89	67	156	255	411
2	131	--	131	270	402
3	134	0.5	134	275	409
4	135	--	135	280	415
5	131	--	131	281	412
6	115	--	115	294	409
7	115	--	115	307	422
8	115	--	115	321	436
9	115	--	115	318	433
10	115	--	115	321	436
11	115	--	115	321	436
12	115	--	115	321	436
13	115	--	115	283	398
14	115	--	115	291	406
15	114	--	114	280	395
16	115	--	115	293	408
17	115	--	115	313	428
18	115	--	115	321	436
19	115	--	115	305	420
20	123	--	123	302	425
21	123	--	123	305	428
22	115	--	115	304	419
23	115	--	115	286	401
24	115	--	115	321	436
25	115	--	115	321	436
26	115	--	115	313	428
27	115	--	115	301	416
28	115	--	115	300	415
29	115	--	115	300	415
30	115	--	115	300	415
31	115	--	115	309	424
Monthly Total	3,626	68	3,694	9,313	13,007
Monthly Min	89	0.0	114	255	
Monthly Max	135	67	156	321	
Monthly Avg	117	2.2	119	300	420

NOTES: ' -- ' indicates plant offline

1.2.2 Treated Water Production (ML)

January 2025

Day	Rossdale (Plant 1 & Plant 2)			E.L. Smith			Plants Combined	Reservoir Levels (%)
	Flow Meters			Flow Meters			Flow Meters (Both Plants)	
	Min	Max	Total	Min	Max	Total		
1	78	204	145	202	278	223	368	68.9
2	65	202	119	205	296	238	357	71.6
3	53	190	126	200	293	242	368	69.6
4	64	205	125	203	299	246	370	71.4
5	75	206	120	205	299	244	365	73.4
6	66	135	107	205	298	256	364	70.3
7	64	204	105	244	301	265	371	65.7
8	61	165	106	253	299	280	386	64.4
9	60	208	107	0.0	302	268	374	67.7
10	23	205	107	207	298	274	382	67.8
11	50	180	108	255	298	274	382	71.4
12	56	185	107	243	296	276	383	75.6
13	35	175	106	0.0	295	234	340	77.0
14	16	202	98	206	295	259	357	73.0
15	61	169	106	202	292	241	346	69.0
16	79	168	106	227	286	253	359	67.2
17	68	201	106	248	288	269	375	66.8
18	26	201	102	250	292	276	378	70.4
19	49	104	105	249	298	261	366	71.0
20	47	175	109	206	285	262	371	67.0
21	23	203	113	255	296	259	371	69.8
22	62	200	107	250	292	263	371	67.4
23	68	198	105	0.0	297	225	330	69.6
24	73	204	107	254	299	279	386	65.2
25	67	104	106	252	299	277	383	68.4
26	52	200	109	203	296	269	378	71.7
27	63	191	105	204	296	260	365	70.9
28	47	206	106	258	300	257	363	70.0
29	48	193	107	207	277	257	364	68.8
30	48	182	106	210	296	257	363	68.1
31	54	194	106	207	301	263	369	67.1
Monthly Tota			3,394			8,010	11,404	
Monthly Min	16			0.0				
Monthly Max		208			302			
Monthly Avg			109			258	368	

NOTES: ' -- ' indicates plant offline

- Estimated flows are based on UV effluent flow meters to address inaccuracy of highlift flow meters.
- Reservoir levels (%) recorded daily at 7 AM

1.2.3 Raw Water Quality - North Saskatchewan River

January 2025

Day	Rossdale										E.L. Smith									
	Turbidity (NTU)			pH			Colour (TCU)				Turbidity (NTU)			pH			Colour (TCU)			
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	
1	2.1	2.7	2.2	8.1	8.1	8.1	2.1	2.8	2.5		2.0	2.2	2.1	8.1	8.1	8.1	2.6	3.1	2.9	
2	2.3	2.7	2.5	8.1	8.1	8.1	2.6	2.8	2.7		1.9	2.2	2.1	8.1	8.1	8.1	2.5	3.1	2.8	
3	2.3	2.4	2.3	8.0	8.1	8.1	2.1	2.8	2.4		2.0	2.3	2.1	8.0	8.1	8.1	2.5	2.9	2.6	
4	2.0	2.4	2.2	8.0	8.1	8.0	2.5	2.8	2.7		1.9	2.0	2.0	8.0	8.1	8.1	1.9	2.6	2.3	
5	2.0	2.4	2.1	8.0	8.1	8.1	2.5	2.8	2.6		1.9	2.8	2.1	8.0	8.1	8.1	2.4	3.0	2.6	
6	2.1	2.4	2.2	8.0	8.1	8.1	2.3	2.7	2.5		2.0	2.8	2.2	8.0	8.0	8.0	1.9	3.0	2.3	
7	2.4	2.5	2.4	8.1	8.1	8.1	2.3	2.5	2.3		2.2	2.3	2.2	8.0	8.0	8.0	2.1	2.6	2.5	
8	2.5	2.8	2.5	8.0	8.1	8.0	2.4	2.6	2.5		2.1	2.5	2.3	8.0	8.1	8.0	2.4	2.9	2.7	
9	2.8	4.1	3.0	8.0	8.1	8.0	2.0	2.4	2.2		2.3	7.3	3.9	8.1	8.1	8.1	2.5	3.1	2.9	
10	2.6	4.1	3.2	8.0	8.1	8.1	2.0	2.6	2.3		2.3	2.5	2.4	8.0	8.1	8.0	2.5	2.8	2.6	
11	3.2	5.3	4.3	8.1	8.1	8.1	2.4	3.4	2.9		2.2	3.6	2.6	8.0	8.0	8.0	2.4	2.5	2.5	
12	3.1	4.9	4.0	8.0	8.1	8.1	2.3	2.6	2.5		2.4	3.6	2.9	7.9	8.1	8.0	2.2	2.7	2.4	
13	2.6	3.1	2.9	8.0	8.0	8.0	2.1	3.0	2.6		2.3	2.7	2.5	8.0	8.1	8.1	2.2	2.7	2.4	
14	2.6	3.3	2.8	8.0	8.1	8.1	2.1	2.6	2.4		2.6	3.3	2.8	8.0	8.0	8.0	2.1	2.5	2.3	
15	3.3	3.9	3.7	8.0	8.1	8.0	2.3	2.7	2.5		3.3	3.9	3.8	8.0	8.0	8.0	2.1	2.6	2.4	
16	3.2	3.8	3.5	8.0	8.1	8.0	2.1	3.0	2.7		2.9	3.5	3.2	8.0	8.0	8.0	2.5	3.0	2.8	
17	2.8	3.8	3.3	8.0	8.1	8.1	2.1	3.5	2.9		2.2	2.9	2.6	8.0	8.0	8.0	2.3	2.9	2.7	
18	2.5	2.8	2.6	8.0	8.1	8.1	2.7	3.1	2.9		2.1	2.4	2.2	8.0	8.1	8.1	2.0	2.9	2.3	
19	2.0	2.6	2.3	8.0	8.1	8.1	2.7	2.9	2.8		1.8	2.1	2.0	8.0	8.1	8.0	2.2	2.7	2.4	
20	1.8	2.4	2.0	8.0	8.1	8.1	2.6	2.9	2.7		1.8	2.0	1.8	8.0	8.0	8.0	2.3	2.7	2.4	
21	1.7	2.4	2.1	8.1	8.1	8.1	2.5	4.0	2.9		1.7	2.2	2.0	8.0	8.1	8.0	2.6	2.8	2.6	
22	1.7	2.2	1.9	8.0	8.1	8.1	3.0	4.0	3.4		1.7	2.0	1.8	8.0	8.0	8.0	2.8	3.2	3.1	
23	1.7	2.2	1.9	8.0	8.1	8.0	2.8	3.3	3.2		1.8	2.2	1.9	8.0	8.1	8.0	3.1	3.3	3.2	
24	2.2	2.4	2.3	8.1	8.1	8.1	2.5	3.0	2.7		2.1	2.5	2.3	8.0	8.1	8.1	3.2	3.6	3.4	
25	2.3	2.5	2.4	8.1	8.1	8.1	3.0	3.3	3.1		2.1	2.6	2.3	8.0	8.1	8.0	2.8	3.6	3.3	
26	2.5	2.9	2.7	8.1	8.1	8.1	3.0	3.3	3.1		2.4	3.2	2.8	8.0	8.1	8.0	3.1	3.6	3.3	
27	2.5	3.0	2.7	8.1	8.1	8.1	2.9	3.0	3.0		2.4	2.6	2.5	8.0	8.1	8.0	3.0	3.4	3.2	
28	2.4	3.0	2.6	8.0	8.1	8.1	2.9	3.0	3.0		2.3	3.2	2.6	8.1	8.1	8.1	3.0	3.6	3.4	
29	2.0	2.5	2.2	8.0	8.1	8.0	3.0	3.2	3.1		1.8	2.5	2.1	8.0	8.1	8.1	3.0	3.6	3.3	
30	2.2	2.4	2.3	8.1	8.1	8.1	3.0	3.6	3.4		2.1	2.2	2.1	8.0	8.1	8.1	2.8	3.6	3.0	
31	1.9	2.3	2.1	8.1	8.1	8.1	3.0	3.2	3.0		2.0	2.1	2.0	7.9	8.0	7.9	2.8	3.1	3.0	
Monthly Min/Max/Avg	1.7	5.3	2.6	8.0	8.1	8.1	2.0	4.0	2.8		1.7	7.3	2.4	7.9	8.1	8.0	1.9	3.6	2.8	

NOTES: ' -- ' indicates plant offline

1.2.4 Treated Water Quality Entering the Distribution System

January 2025

Day	Rossdale														E.L. Smith											
	Turbidity (NTU)			Chloramine Residual (mg/L)			pH			Fluoride Residual (mg/L)			Total Hardness (mg/L as $CaCO_3$)	Colour (TCU)	Turbidity (NTU)			Chloramine Residual (mg/L)			pH			Fluoride Residual (mg/L)			Total Hardness (mg/L as $CaCO_3$)	Colour (TCU)
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Total	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Total	Avg
1	0.05	0.07	0.05	1.91	2.11	2.02	7.9	7.9	7.9	0.78	0.80	0.79	181	0.6	0.06	0.06	0.06	1.93	1.96	1.93	7.7	7.7	7.7	0.70	0.70	0.70	184	0.8
2	0.06	0.08	0.06	1.96	2.11	2.02	7.9	7.9	7.9	0.78	0.80	0.79	182	0.4	0.06	0.06	0.06	1.91	1.97	1.93	7.7	7.7	7.7	0.70	0.71	0.71	182	0.8
3	0.07	0.09	0.07	1.91	2.06	1.99	7.9	7.9	7.9	0.79	0.81	0.80	183	0.5	0.06	0.06	0.06	1.91	1.98	1.93	7.7	7.7	7.7	0.69	0.71	0.70	180	0.8
4	0.05	0.09	0.07	1.96	2.16	2.06	7.9	7.9	7.9	0.79	0.83	0.80	173	0.7	0.06	0.06	0.06	1.93	1.97	1.93	7.7	7.7	7.7	0.70	0.71	0.71	174	0.7
5	0.06	0.08	0.07	1.96	2.16	2.07	7.9	7.9	7.9	0.78	0.82	0.79	173	0.5	0.06	0.06	0.06	1.93	1.97	1.93	7.7	7.7	7.7	0.70	0.71	0.71	174	0.7
6	0.07	0.08	0.07	1.96	2.16	2.05	7.9	7.9	7.9	0.79	0.81	0.80	173	0.7	0.06	0.06	0.06	1.93	1.98	1.94	7.7	7.8	7.8	0.70	0.71	0.71	174	0.6
7	0.05	0.08	0.07	1.96	2.11	2.03	7.9	7.9	7.9	0.66	0.73	0.69	180	0.6	0.06	0.06	0.06	1.93	1.98	1.94	7.8	7.8	7.8	0.69	0.71	0.70	178	0.6
8	0.06	0.07	0.07	1.83	2.11	1.96	7.9	7.9	7.9	0.79	0.81	0.80	182	0.4	0.06	0.06	0.06	1.93	1.98	1.94	7.8	7.8	7.8	0.69	0.71	0.70	181	0.6
9	0.06	0.09	0.07	1.86	2.06	1.94	7.9	7.9	7.9	0.67	0.74	0.67	185	0.3	0.06	0.07	0.06	1.93	1.98	1.95	7.8	7.8	7.8	0.68	0.69	0.69	178	0.8
10	0.07	0.09	0.07	1.91	2.06	2.00	7.9	7.9	7.9	0.68	0.73	0.71	173	0.4	0.06	0.07	0.06	1.93	1.98	1.97	7.8	7.8	7.8	0.67	0.69	0.68	175	0.5
11	0.06	0.09	0.07	1.86	2.11	2.02	7.8	7.9	7.9	0.67	0.73	0.70	171	0.4	0.06	0.06	0.06	1.93	1.98	1.94	7.8	7.8	7.8	0.67	0.68	0.68	170	0.5
12	0.07	0.08	0.07	1.86	2.16	2.03	7.9	7.9	7.9	0.69	0.72	0.69	166	0.3	0.06	0.06	0.06	1.93	1.98	1.95	7.8	7.8	7.8	0.67	0.68	0.68	161	0.4
13	0.07	0.08	0.07	1.96	2.16	2.06	7.9	7.9	7.9	0.69	0.73	0.69	174	0.6	0.06	0.06	0.07	1.94	2.02	1.98	7.6	7.9	7.8	0.68	0.76	0.69	169	0.5
14	0.07	0.08	0.07	1.96	2.06	2.02	7.9	7.9	7.9	0.66	0.73	0.70	169	0.8	0.06	0.06	0.06	1.93	1.98	1.96	7.8	7.8	7.8	0.68	0.69	0.68	164	0.4
15	0.06	0.08	0.07	1.96	2.16	2.05	7.9	7.9	7.9	0.66	0.75	0.70	170	0.4	0.06	0.06	0.06	1.93	1.98	1.94	7.8	7.8	7.8	0.68	0.69	0.69	166	0.4
16	0.06	0.09	0.07	1.96	2.16	2.04	7.9	7.9	7.9	0.70	0.73	0.70	165	0.5	0.06	0.06	0.06	1.93	1.98	1.97	7.8	7.8	7.8	0.69	0.70	0.69	164	0.6
17	0.07	0.08	0.08	2.01	2.11	2.04	7.9	7.9	7.9	0.66	0.72	0.69	170	0.5	0.06	0.06	0.06	1.93	1.98	1.96	7.8	7.8	7.8	0.68	0.69	0.69	169	0.6
18	0.04	0.05	0.04	1.96	2.11	2.04	7.9	7.9	7.9	0.66	0.72	0.70	167	0.4	0.06	0.06	0.06	1.93	1.98	1.95	7.8	7.8	7.8	0.68	0.68	0.68	165	0.5
19	0.04	0.08	0.07	1.96	2.11	2.04	7.9	7.9	7.9	0.66	0.72	0.69	165	0.5	0.06	0.06	0.06	1.90	1.98	1.93	7.8	7.8	7.8	0.68	0.70	0.69	165	0.4
20	0.06	0.09	0.08	1.96	2.06	2.04	7.9	7.9	7.9	0.65	0.73	0.70	166	0.5	0.06	0.06	0.06	1.93	1.98	1.96	7.8	7.8	7.8	0.69	0.70	0.70	169	0.3
21	0.05	0.05	0.05	2.01	2.11	2.05	7.9	7.9	7.9	0.67	0.74	0.70	170	0.6	0.06	0.06	0.06	1.88	1.98	1.93	7.8	7.9	7.8	0.68	0.70	0.69	178	0.6
22	0.07	0.09	0.08	2.01	2.16	2.09	7.9	7.9	7.9	0.67	0.68	0.67	174	0.6	0.06	0.06	0.06	1.88	1.93	1.91	7.9	7.9	7.9	0.68	0.70	0.69	181	0.7
23	0.05	0.07	0.05	2.06	2.16	2.11	7.9	7.9	7.9	0.67	0.69	0.68	180	0.6	0.06	0.07	0.06	1.90	1.98	1.93	7.7	7.9	7.9	0.68	0.71	0.69	182	0.5
24	0.06	0.09	0.08	2.01	2.11	2.05	7.9	7.9	7.9	0.67	0.68	0.68	182	0.3	0.06	0.06	0.06	1.90	1.94	1.93	7.9	7.9	7.9	0.68	0.69	0.68	188	0.7
25	0.07	0.09	0.08	1.96	2.06	2.03	7.9	7.9	7.9	0.68	0.68	0.68	186	0.5	0.06	0.06	0.06	1.93	1.96	1.93	7.9	7.9	7.9	0.68	0.69	0.68	186	0.7
26	0.07	0.09	0.08	1.91	2.06	2.01	7.9	8.0	7.9	0.68	0.69	0.68	189	0.5	0.06	0.06	0.06	1.93	1.97	1.93	7.9	7.9	7.9	0.68	0.68	0.68	186	0.7
27	0.07	0.09	0.08	1.96	2.06	2.01	7.9	8.0	7.9	0.67	0.68	0.68	176	0.5	0.06	0.06	0.06	1.89	1.93	1.92	7.9	7.9	7.9	0.68	0.68	0.68	181	0.8
28	0.05	0.10	0.08	2.01	2.06	2.04	7.9	7.9	7.9	0.67	0.69	0.67	179	0.6	0.06	0.06	0.06	1.88	1.93	1.92	7.9	7.9	7.9	0.68	0.68	0.68	178	0.8
29	0.04	0.10	0.07	1.96	2.06	2.03	7.9	7.9	7.9	0.68	0.69	0.68	178	0.6	0.06	0.06	0.06	1.88	1.93	1.92	7.9	7.9	7.9	0.68	0.68	0.68	178	0.7
30	0.04	0.05	0.05	2.01	2.11	2.07	7.9	7.9	7.9	0.68	0.71	0.69	179	0.6	0.06	0.07	0.06	1.88	1.93	1.92	7.9	7.9	7.9	0.67	0.68	0.68	177	0.6
31	0.04	0.08	0.05	2.01	2.06	2.03	7.9	7.9	7.9	0.68	0.69	0.68	177	0.7	0.06	0.06	0.06	1.92	1.98	1.94	7.9	7.9	7.9	0.67	0.68	0.68	178	0.6
Monthly Min/Max/ Avg	0.04	0.10	0.07	1.83	2.16	2.03	7.8	8.0	7.9	0.65	0.83	0.71	175	0.5	0.06	0.07	0.06	1.88	2.02	1.94	7.6	7.9	7.8	0.67	0.76	0.69	175	0.6

NOTES: ' -- ' indicates plant offline

1.2.5 Rossdale Filters 1 - 9 Particle Counts (no./mL >2um)

January 2025

Filter	1			2			3			4			5			6			7			8			9		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	1	2	1	1	6	2	1	5	3	1	5	3	4	15	6	1	4	2	1	5	3	1	3	1	1	2	1
2	1	18	4	1	3	1	1	4	2	1	12	6	2	7	4	1	2	1	1	3	2	2	20	5	2	11	4
3	1	4	2	2	12	3	1	11	3	3	9	5	1	5	2	3	31	6	--	--	--	1	5	3	1	5	2
4	1	16	4	1	3	1	1	6	3	2	7	4	5	16	9	1	6	3	2	17	4	1	3	1	1	2	1
5	1	5	2	1	1	1	1	3	1	3	11	4	2	7	4	1	3	1	1	4	2	1	2	1	2	10	3
6	1	2	1	1	10	3	--	--	--	2	9	4	1	4	2	3	10	6	1	3	1	2	23	4	1	4	2
7	--	--	--	1	3	2	2	11	5	3	7	5	3	8	6	1	5	3	3	16	4	1	4	2	1	2	1
8	3	15	5	1	2	1	1	5	3	--	--	--	3	9	6	1	3	2	2	6	3	1	3	2	4	13	6
9	1	5	3	2	12	4	1	3	2	3	11	5	1	5	3	--	--	--	1	4	2	--	--	--	2	7	4
10	1	3	1	1	4	2	--	--	--	1	6	3	--	--	--	3	11	5	1	2	1	2	22	5	1	4	2
11	--	--	--	1	2	1	2	20	5	1	3	2	6	17	8	1	5	3	5	15	7	1	5	3	1	10	1
12	3	12	5	--	--	--	1	5	2	4	11	6	2	10	5	1	2	1	2	10	5	1	4	1	--	--	--
13	1	6	3	2	12	4	1	2	1	2	8	4	1	5	3	--	--	--	1	4	2	--	--	--	3	11	6
14	1	3	1	1	4	2	6	18	9	1	7	2	--	--	--	--	--	--	1	2	1	4	23	6	2	7	4
15	4	15	7	1	2	1	4	11	6	1	2	2	--	--	--	3	18	6	--	--	--	2	7	4	1	5	2
16	3	23	6	--	--	--	3	6	4	6	17	8	6	21	11	1	6	3	5	19	8	1	4	2	1	2	1
17	2	5	3	3	15	5	6	28	10	3	10	6	3	10	6	1	2	2	2	9	5	--	--	--	4	28	8
18	--	--	--	1	5	3	2	8	5	1	5	2	--	--	--	3	14	5	3	3	3	3	23	6	1	7	3
19	2	18	4	1	2	1	1	5	3	2	9	4	3	24	6	1	6	3	--	--	--	1	5	3	1	3	2
20	1	4	2	2	14	4	--	--	--	1	23	3	2	6	4	1	3	2	2	19	4	1	23	5	3	11	4
21	1	2	1	1	4	3	4	29	9	1	23	17	4	19	7	--	--	--	2	5	3	3	8	4	1	5	3
22	5	17	7	1	3	2	1	9	3	3	18	6	2	7	5	3	13	5	9	16	12	1	5	3	1	4	2
23	1	6	4	2	10	4	1	4	2	--	--	--	2	6	3	1	6	3	3	11	5	--	--	--	3	15	5
24	1	4	2	1	4	2	--	--	--	5	17	8	--	--	--	1	3	2	1	5	3	3	37	8	2	6	3
25	--	--	--	1	2	1	4	17	9	2	29	10	5	20	8	--	--	--	1	3	2	2	18	5	1	4	2
26	4	40	7	--	--	--	2	11	5	1	5	2	3	27	6	3	20	5	9	20	12	1	10	3	1	2	1
27	2	9	4	3	14	5	2	30	6	2	2	2	2	6	3	1	5	2	3	13	7	--	--	--	6	20	8
28	1	10	2	1	6	3	12	31	17	5	22	9	--	--	--	1	2	1	1	6	3	3	27	7	3	10	6
29	4	20	6	1	3	2	6	16	10	2	8	5	8	22	11	--	--	--	--	--	--	2	7	4	2	6	3
30	1	6	4	--	--	--	2	11	6	1	7	3	4	13	8	3	15	6	5	34	9	1	6	2	--	--	--
31	1	4	2	3	12	5	2	5	3	4	15	7	2	7	4	1	7	3	3	9	6	--	--	--	6	21	9
Monthly Min/Max/Avg	1	40	3	1	15	3	1	31	5	1	29	5	1	27	6	1	31	3	1	34	4	1	37	4	1	28	4

NOTE: ' -- ' indicates filter offline

1.2.6 E.L. Smith Filters 1 - 9 Particle Counts (no./mL >2um)

January 2025

Filter	1			2			3			4			5			6			7			8			9		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	1	21	6	2	23	7	2	8	5	3	9	5	2	17	3	4	28	8	3	26	7	2	7	4	5	27	7
2	2	8	4	2	22	4	2	21	6	2	19	5	3	20	6	3	28	8	3	10	6	4	29	7	2	30	5
3	4	21	7	3	17	6	2	20	5	2	8	4	2	28	4	5	39	14	4	39	8	2	29	6	2	8	4
4	1	8	4	1	27	5	2	9	5	1	23	5	3	30	6	4	41	11	4	30	7	2	7	4	2	25	5
5	1	25	6	1	6	4	2	24	5	1	7	4	2	20	5	3	27	7	3	28	7	1	28	5	2	28	5
6	2	26	5	1	21	6	2	7	4	1	21	6	3	30	5	3	10	6	3	9	5	2	29	5	2	29	6
7	3	10	6	2	11	4	2	26	7	2	8	5	2	21	7	6	39	15	5	26	9	4	33	6	3	27	6
8	2	26	6	3	21	6	2	23	5	2	19	7	2	23	5	6	44	12	3	28	9	3	12	6	2	26	5
9	2	8	5	1	23	4	2	8	5	1	20	4	2	15	5	5	44	18	4	25	8	2	29	6	2	12	5
10	2	22	6	2	8	4	1	21	5	2	9	5	1	21	5	2	12	4	3	28	7	2	30	6	2	24	6
11	1	21	5	1	24	5	1	19	4	1	23	5	1	21	4	2	26	6	4	11	7	3	30	6	3	25	6
12	1	15	4	1	24	3	2	7	4	1	6	3	1	9	4	2	27	6	4	25	8	2	29	6	1	30	5
13	1	21	6	2	16	5	1	24	5	3	20	5	1	23	5	2	27	5	3	29	8	2	8	4	1	24	5
14	2	20	5	1	30	4	2	21	5	1	24	3	1	29	4	2	9	5	5	30	9	4	31	7	2	28	5
15	3	9	6	2	17	4	2	8	4	3	9	6	2	23	7	2	29	7	5	31	9	4	31	8	3	13	6
16	2	23	8	2	32	8	4	19	8	1	24	5	2	25	5	2	9	5	5	18	9	4	34	9	3	26	9
17	2	9	5	1	23	5	2	20	6	2	10	5	2	23	6	3	27	8	4	29	10	3	32	7	3	26	6
18	3	25	6	2	10	5	1	24	5	1	22	4	2	25	5	2	23	6	4	28	8	2	31	5	3	27	6
19	1	24	4	1	25	3	2	9	4	1	6	3	1	28	3	1	10	4	4	35	8	2	31	6	3	28	6
20	2	8	5	2	7	4	1	23	4	1	18	5	2	15	5	4	26	7	3	26	6	3	28	6	2	15	4
21	1	23	6	1	26	6	2	7	4	2	14	4	1	29	5	4	38	17	4	18	9	2	29	6	2	25	7
22	4	22	6	3	22	6	3	21	5	3	18	6	4	7	5	4	24	8	4	31	10	3	32	7	3	28	8
23	2	25	6	2	23	6	2	18	5	2	23	6	5	17	8	6	24	10	4	29	10	3	10	6	3	29	5
24	3	11	6	2	9	5	2	20	6	2	8	5	2	21	6	6	29	13	6	30	10	3	31	9	4	20	8
25	2	26	6	1	22	6	3	10	6	1	23	5	3	11	6	4	30	9	4	15	8	3	31	8	4	25	8
26	2	10	5	1	21	5	1	20	6	2	7	4	1	22	6	4	10	6	5	27	10	3	29	7	2	25	6
27	2	27	7	2	10	6	2	10	4	3	21	6	3	19	7	2	25	8	4	25	9	4	30	8	2	19	5
28	1	23	5	1	20	7	2	23	8	2	23	6	2	9	5	2	27	7	4	10	7	3	10	6	5	29	9
29	3	13	6	1	8	4	2	24	5	2	8	4	4	18	7	6	34	13	5	27	10	3	32	8	3	25	7
30	1	20	3	2	22	5	2	9	5	1	12	4	3	19	7	5	39	13	3	26	8	3	27	5	3	12	4
31	2	10	5	1	21	4	2	21	5	1	6	3	2	9	4	3	28	7	3	27	7	3	11	6	3	30	6
Monthly Min/Max/Avg	1	27	6	1	32	5	1	26	5	1	24	5	1	30	5	1	44	9	3	39	8	1	34	6	1	30	6

NOTES: ' -- ' indicates filter offline

1.2.7 E.L. Smith Filters 10 - 18 Particle Counts (no./mL >2um)

January 2025

Filter	10			11			12			13			14			15			16			17			18		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	1	30	4	3	24	6	3	25	7	1	13	4	--	--	--	1	17	3	1	23	6	2	14	5	1	24	4
2	2	9	4	3	28	5	3	24	7	3	25	6	--	--	--	2	14	5	2	18	4	2	23	6	2	12	4
3	2	25	5	2	25	4	2	24	7	1	22	4	--	--	--	1	19	5	2	25	5	1	15	4	2	25	5
4	2	30	4	2	27	5	3	23	5	1	12	4	--	--	--	1	10	3	1	21	4	2	23	5	1	19	4
5	1	6	3	2	26	5	2	11	5	1	23	5	--	--	--	2	19	5	1	27	4	1	25	5	2	11	4
6	1	26	5	3	26	5	4	22	6	1	22	5	--	--	--	1	17	5	2	12	5	2	28	4	1	40	5
7	2	32	5	2	28	6	3	23	7	2	12	5	6	28	9	2	25	5	1	25	5	2	15	6	2	21	5
8	2	27	5	2	25	6	4	24	8	2	25	6	2	29	5	2	14	5	1	29	4	2	30	6	3	13	5
9	2	13	5	4	27	6	2	25	7	2	24	6	3	29	7	2	20	6	2	23	5	1	22	4	2	24	6
10	2	27	5	2	24	5	3	29	7	1	25	5	2	27	7	1	19	5	3	39	6	2	16	4	1	33	4
11	2	27	5	2	24	5	3	27	7	2	7	4	3	26	7	1	22	4	3	30	6	2	24	5	2	14	5
12	1	6	3	1	23	5	2	28	6	3	28	7	2	28	6	2	13	5	2	21	6	1	24	6	2	24	5
13	3	26	6	2	12	5	3	27	6	2	8	4	2	25	5	1	25	6	2	25	6	1	24	6	1	24	5
14	1	27	6	2	29	6	3	17	7	2	27	7	4	23	8	1	20	5	4	24	7	2	18	4	2	15	5
15	2	28	5	2	28	9	4	24	8	2	27	7	3	24	9	3	19	7	2	35	5	3	25	7	2	24	7
16	3	13	7	3	27	8	6	26	11	2	14	6	3	38	8	3	23	7	4	24	9	2	22	8	2	25	5
17	3	25	7	3	25	7	4	28	9	3	26	8	4	19	9	2	20	8	3	26	7	2	21	6	2	30	6
18	2	25	5	3	24	7	3	27	7	2	25	6	3	24	7	1	20	5	1	11	4	1	9	4	2	22	5
19	3	8	4	3	27	6	3	31	7	1	6	3	1	23	6	1	12	4	3	26	6	1	23	5	1	21	4
20	3	28	7	2	26	5	3	30	7	3	26	6	2	8	5	1	26	6	1	25	6	1	23	4	2	8	5
21	3	27	6	3	10	6	3	27	8	2	24	6	4	24	8	1	24	6	2	30	6	2	12	5	2	20	6
22	4	31	7	3	30	8	4	26	8	3	29	6	4	25	9	2	15	5	3	15	6	3	23	7	3	20	7
23	4	29	8	3	30	8	4	13	8	3	25	6	4	9	6	4	22	7	3	30	8	2	24	7	3	25	7
24	6	34	13	3	25	7	6	27	12	4	25	8	5	28	10	3	26	8	4	29	8	3	23	7	4	21	8
25	4	31	10	2	16	7	5	26	10	2	29	7	3	42	9	2	28	6	3	29	6	2	23	6	3	24	7
26	4	10	7	3	27	8	4	28	9	2	26	6	3	30	7	2	43	5	3	15	7	3	17	7	3	25	8
27	5	30	9	2	26	6	3	27	7	3	13	7	3	18	8	2	21	8	3	27	8	2	25	6	2	17	5
28	4	29	9	3	14	6	6	18	9	2	28	8	3	30	9	2	28	7	2	27	7	2	11	5	4	25	7
29	7	44	16	3	29	8	6	28	12	3	27	9	2	29	7	2	14	5	4	23	8	2	28	6	5	45	12
30	4	17	8	2	22	7	6	28	11	3	14	6	3	11	6	1	26	6	4	30	9	2	15	4	2	12	5
31	5	44	16	3	24	6	3	27	6	2	26	6	2	28	8	1	22	6	2	24	5	2	25	6	3	24	6
Monthly Min/Max/Avg	1	44	7	1	30	6	2	31	8	1	29	6	1	42	7	1	43	6	1	39	6	1	30	5	1	45	6

NOTES: ' -- ' indicates filter offline

1.2.8 Rossdale Filters 1 - 9 Turbidity (NTU)

January 2025

Filter	1			2			3			4			5			6			7			8			9		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	0.02	0.03	0.02	0.03	0.04	0.03	0.02	0.05	0.03	0.01	0.03	0.01	0.04	0.06	0.04	0.01	0.02	0.02	0.03	0.04	0.03	0.01	0.02	0.02	0.02	0.02	0.02
2	0.02	0.05	0.03	0.02	0.04	0.02	0.01	0.02	0.02	0.02	0.06	0.04	0.03	0.04	0.03	0.01	0.01	0.01	0.02	0.04	0.03	0.03	0.05	0.03	0.03	0.05	0.03
3	0.02	0.02	0.02	0.03	0.09	0.03	0.01	0.05	0.03	0.01	0.08	0.02	0.02	0.04	0.03	0.02	0.05	0.03	--	--	--	0.02	0.03	0.02	0.02	0.03	0.02
4	0.02	0.06	0.04	0.02	0.03	0.02	0.01	0.03	0.02	0.01	0.09	0.02	0.05	0.06	0.05	0.01	0.03	0.02	0.03	0.06	0.04	0.01	0.03	0.02	0.02	0.02	0.02
5	0.02	0.03	0.02	0.02	0.03	0.02	0.01	0.02	0.01	0.02	0.06	0.03	0.03	0.08	0.03	0.01	0.03	0.01	0.02	0.04	0.03	0.01	0.03	0.02	0.02	0.08	0.03
6	0.02	0.02	0.02	0.03	0.06	0.04	--	--	--	0.01	0.04	0.02	0.02	0.04	0.02	0.03	0.06	0.04	0.02	0.03	0.02	0.02	0.05	0.03	0.02	0.02	0.02
7	--	--	--	0.03	0.03	0.03	0.02	0.05	0.02	0.01	0.03	0.01	0.05	0.06	0.05	0.02	0.03	0.02	0.03	0.05	0.04	0.02	0.02	0.02	0.02	0.02	0.02
8	0.03	0.06	0.04	0.02	0.04	0.02	0.01	0.02	0.01	--	--	--	0.03	0.05	0.03	0.01	0.02	0.01	0.03	0.03	0.03	0.02	0.03	0.02	0.04	0.06	0.05
9	0.02	0.03	0.02	0.03	0.06	0.03	0.01	0.01	0.01	0.02	0.06	0.02	0.02	0.04	0.03	--	--	--	0.02	0.03	0.02	--	--	--	0.02	0.04	0.03
10	0.02	0.02	0.02	0.02	0.03	0.03	--	--	--	0.01	0.02	0.01	--	--	--	0.03	0.05	0.03	0.02	0.04	0.02	0.02	0.05	0.03	0.02	0.02	0.02
11	--	--	--	0.02	0.04	0.02	0.01	0.04	0.02	0.01	0.02	0.01	0.03	0.06	0.04	0.01	0.03	0.02	0.04	0.06	0.05	0.01	0.03	0.02	0.01	0.02	0.02
12	0.02	0.05	0.03	--	--	--	0.01	0.01	0.01	0.03	0.05	0.04	0.02	0.03	0.03	0.01	0.04	0.01	0.02	0.04	0.03	0.01	0.03	0.01	--	--	--
13	0.02	0.02	0.02	0.03	0.08	0.03	0.01	0.02	0.01	0.01	0.03	0.02	0.02	0.04	0.02	--	--	--	0.02	0.03	0.02	--	--	--	0.03	0.06	0.03
14	0.02	0.03	0.02	0.02	0.04	0.02	0.02	0.05	0.03	0.01	0.09	0.01	--	--	--	--	--	--	0.02	0.04	0.02	0.02	0.05	0.03	0.02	0.03	0.02
15	0.02	0.06	0.03	0.02	0.03	0.02	0.01	0.04	0.02	0.01	0.02	0.02	--	--	--	0.02	0.05	0.02	--	--	--	0.02	0.02	0.02	0.01	0.02	0.02
16	0.02	0.04	0.03	--	--	--	0.01	0.05	0.03	0.02	0.04	0.03	0.03	0.07	0.03	0.01	0.02	0.01	0.03	0.06	0.04	0.01	0.03	0.02	0.01	0.02	0.01
17	0.02	0.02	0.02	0.03	0.06	0.04	0.02	0.06	0.03	0.01	0.02	0.02	0.03	0.03	0.03	0.01	0.03	0.01	0.03	0.04	0.03	--	--	--	0.02	0.06	0.03
18	--	--	--	0.02	0.03	0.03	0.01	0.04	0.02	0.01	0.01	0.01	--	--	--	0.03	0.06	0.03	0.04	0.04	0.04	0.02	0.04	0.03	0.02	0.02	0.02
19	0.02	0.07	0.03	0.02	0.04	0.02	0.01	0.05	0.01	0.02	0.04	0.03	0.03	0.05	0.03	0.02	0.03	0.02	--	--	--	0.02	0.02	0.02	0.02	0.02	0.02
20	0.02	0.02	0.02	0.03	0.05	0.04	--	--	--	0.01	0.03	0.02	0.02	0.04	0.03	0.01	0.03	0.01	0.03	0.06	0.04	0.02	0.05	0.03	0.03	0.06	0.03
21	0.02	0.03	0.02	0.02	0.03	0.03	0.02	0.04	0.02	0.01	0.02	0.01	0.03	0.06	0.04	--	--	--	0.03	0.04	0.03	0.02	0.03	0.03	0.02	0.03	0.02
22	0.03	0.06	0.04	0.02	0.04	0.03	0.01	0.02	0.01	0.02	0.05	0.02	0.03	0.04	0.03	0.02	0.06	0.03	0.04	0.05	0.04	0.02	0.07	0.02	0.02	0.02	0.02
23	0.02	0.06	0.03	0.03	0.05	0.03	0.01	0.01	0.01	--	--	--	0.03	0.03	0.03	0.01	0.03	0.02	0.03	0.06	0.04	--	--	--	0.03	0.05	0.04
24	0.02	0.04	0.02	0.02	0.03	0.03	--	--	--	0.02	0.05	0.03	--	--	--	0.01	0.03	0.01	0.02	0.05	0.03	0.02	0.05	0.03	0.02	0.04	0.02
25	--	--	--	0.02	0.02	0.02	0.02	0.04	0.03	0.01	0.02	0.02	0.04	0.07	0.04	--	--	--	0.02	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.02
26	0.03	0.08	0.04	--	--	--	0.01	0.02	0.01	0.01	0.02	0.01	0.03	0.05	0.03	0.02	0.07	0.03	0.04	0.06	0.06	0.02	0.02	0.02	0.02	0.02	0.02
27	0.02	0.03	0.02	0.03	0.05	0.04	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.04	0.03	0.01	0.03	0.01	0.02	0.05	0.03	--	--	--	0.03	0.07	0.04
28	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.07	0.05	0.02	0.05	0.03	--	--	--	0.01	0.01	0.01	0.02	0.04	0.03	0.02	0.08	0.03	0.02	0.05	0.03
29	0.02	0.06	0.03	0.02	0.04	0.02	0.02	0.07	0.02	0.01	0.02	0.01	0.02	0.07	0.05	--	--	--	--	--	--	0.02	0.02	0.02	0.02	0.04	0.02
30	0.02	0.03	0.02	--	--	--	0.01	0.02	0.01	0.01	0.03	0.01	0.03	0.04	0.03	0.02	0.07	0.03	0.03	0.06	0.04	0.02	0.02	0.02	--	--	--
31	0.02	0.04	0.02	0.03	0.05	0.03	0.01	0.01	0.01	0.02	0.05	0.03	0.02	0.03	0.02	0.01	0.02	0.02	0.03	0.04	0.03	--	--	--	0.04	0.06	0.05
Monthly Min/Max/Avg	0.02	0.08	0.02	0.02	0.09	0.03	0.01	0.07	0.02	0.01	0.09	0.02	0.02	0.08	0.03	0.01	0.07	0.02	0.02	0.06	0.03	0.01	0.08	0.02	0.01	0.08	0.02

NOTES: ' -- ' indicates filter offline

1.2.9 E.L. Smith Filters 1 - 9 Turbidity (NTU)

January 2025

Filter	1			2			3			4			5			6			7			8			9		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	0.01	0.05	0.02	0.02	0.06	0.03	0.01	0.01	0.01	0.02	0.03	0.03	0.00	0.00	0.00	0.03	0.07	0.04	0.01	0.05	0.01	0.02	0.02	0.02	0.01	0.06	0.02
2	0.01	0.01	0.01	0.02	0.06	0.02	0.00	0.04	0.01	0.02	0.06	0.03	0.01	0.05	0.01	0.03	0.07	0.03	0.01	0.01	0.00	0.02	0.07	0.03	0.01	0.07	0.01
3	0.01	0.04	0.02	0.02	0.04	0.03	0.00	0.04	0.01	0.02	0.03	0.02	0.00	0.04	0.01	0.03	0.04	0.03	0.00	0.06	0.01	0.02	0.06	0.03	0.01	0.02	0.01
4	0.01	0.01	0.01	0.02	0.07	0.03	0.00	0.01	0.01	0.02	0.05	0.03	0.00	0.04	0.01	0.03	0.07	0.04	0.01	0.05	0.01	0.02	0.03	0.02	0.01	0.06	0.01
5	0.01	0.04	0.02	0.02	0.02	0.02	0.00	0.03	0.01	0.02	0.02	0.02	0.00	0.04	0.01	0.03	0.07	0.03	0.01	0.05	0.01	0.02	0.06	0.02	0.01	0.06	0.01
6	0.01	0.05	0.01	0.02	0.06	0.03	0.00	0.01	0.01	0.02	0.05	0.03	0.00	0.09	0.00	0.03	0.04	0.03	0.01	0.01	0.00	0.02	0.06	0.02	0.01	0.06	0.01
7	0.01	0.02	0.01	0.02	0.03	0.02	0.00	0.04	0.01	0.02	0.02	0.02	0.00	0.05	0.01	0.03	0.07	0.04	0.00	0.05	0.01	0.02	0.07	0.03	0.01	0.06	0.01
8	0.01	0.05	0.01	0.02	0.07	0.03	0.00	0.04	0.01	0.02	0.05	0.03	0.00	0.04	0.01	0.03	0.07	0.04	0.01	0.05	0.01	0.02	0.04	0.02	0.01	0.06	0.01
9	0.01	0.02	0.01	0.02	0.07	0.02	0.00	0.01	0.01	0.02	0.05	0.02	0.00	0.01	0.01	0.03	0.06	0.04	0.01	0.05	0.01	0.02	0.06	0.03	0.01	0.02	0.01
10	0.01	0.04	0.01	0.02	0.03	0.02	0.00	0.04	0.01	0.02	0.03	0.02	0.00	0.04	0.01	0.03	0.03	0.03	0.01	0.05	0.01	0.02	0.06	0.02	0.01	0.06	0.01
11	0.01	0.04	0.01	0.02	0.06	0.02	0.00	0.03	0.01	0.02	0.05	0.03	0.00	0.04	0.00	0.03	0.07	0.03	0.01	0.04	0.00	0.02	0.06	0.02	0.01	0.06	0.01
12	0.01	0.01	0.01	0.02	0.06	0.02	0.00	0.01	0.01	0.02	0.03	0.02	0.00	0.01	0.00	0.03	0.06	0.03	0.01	0.04	0.01	0.02	0.06	0.02	0.01	0.06	0.01
13	0.01	0.04	0.01	0.02	0.04	0.02	0.00	0.03	0.01	0.02	0.05	0.03	0.00	0.06	0.01	0.03	0.07	0.03	0.01	0.04	0.01	0.02	0.02	0.02	0.01	0.06	0.01
14	0.01	0.04	0.01	0.02	0.06	0.02	0.00	0.04	0.01	0.02	0.05	0.02	0.01	0.03	0.00	0.03	0.03	0.03	0.00	0.05	0.01	0.02	0.06	0.03	0.01	0.06	0.01
15	0.01	0.02	0.01	0.02	0.03	0.02	0.00	0.01	0.00	0.02	0.03	0.02	0.00	0.04	0.01	0.03	0.08	0.03	0.01	0.06	0.01	0.02	0.07	0.03	0.01	0.02	0.01
16	0.01	0.05	0.02	0.02	0.07	0.03	0.01	0.04	0.01	0.02	0.06	0.03	0.00	0.05	0.01	0.03	0.05	0.03	0.01	0.01	0.00	0.02	0.07	0.03	0.01	0.07	0.01
17	0.01	0.01	0.01	0.02	0.07	0.02	0.00	0.04	0.01	0.02	0.03	0.03	0.00	0.01	0.01	0.03	0.08	0.03	0.01	0.06	0.01	0.02	0.06	0.02	0.01	0.06	0.01
18	0.01	0.05	0.01	0.02	0.03	0.02	0.00	0.04	0.01	0.02	0.05	0.03	0.00	0.04	0.01	0.03	0.07	0.03	0.01	0.05	0.01	0.02	0.03	0.02	0.01	0.06	0.01
19	0.01	0.04	0.01	0.02	0.06	0.02	0.00	0.01	0.01	0.02	0.03	0.02	0.00	0.03	0.00	0.03	0.03	0.03	0.01	0.04	0.01	0.02	0.06	0.02	0.01	0.05	0.01
20	0.01	0.02	0.01	0.02	0.02	0.02	0.00	0.03	0.01	0.02	0.05	0.03	0.00	0.01	0.01	0.03	0.06	0.03	0.01	0.04	0.00	0.02	0.06	0.03	0.01	0.01	0.00
21	0.01	0.04	0.01	0.02	0.06	0.02	0.00	0.05	0.01	0.02	0.03	0.02	0.00	0.03	0.01	0.03	0.03	0.03	0.01	0.02	0.01	0.02	0.06	0.02	0.01	0.07	0.01
22	0.01	0.04	0.01	0.02	0.06	0.03	0.00	0.04	0.01	0.02	0.05	0.03	0.01	0.01	0.01	0.03	0.07	0.03	0.01	0.05	0.01	0.02	0.06	0.03	0.00	0.05	0.01
23	0.01	0.05	0.01	0.02	0.07	0.02	0.00	0.03	0.01	0.02	0.05	0.03	0.01	0.04	0.01	0.03	0.07	0.04	0.01	0.05	0.01	0.02	0.07	0.02	0.01	0.06	0.01
24	0.01	0.02	0.01	0.02	0.03	0.02	0.00	0.04	0.01	0.02	0.03	0.02	0.00	0.05	0.01	0.03	0.07	0.04	0.00	0.05	0.01	0.02	0.06	0.03	0.00	0.03	0.01
25	0.01	0.05	0.02	0.02	0.07	0.03	0.00	0.01	0.01	0.02	0.05	0.03	0.00	0.02	0.01	0.03	0.07	0.03	0.01	0.02	0.01	0.02	0.06	0.03	0.00	0.06	0.01
26	0.01	0.01	0.01	0.02	0.07	0.02	0.00	0.04	0.01	0.02	0.03	0.03	0.00	0.04	0.01	0.03	0.04	0.03	0.00	0.05	0.01	0.02	0.06	0.03	0.01	0.06	0.01
27	0.01	0.05	0.02	0.02	0.03	0.02	0.00	0.01	0.00	0.02	0.06	0.03	0.00	0.04	0.01	0.03	0.08	0.03	0.01	0.05	0.01	0.02	0.07	0.03	0.01	0.01	0.00
28	0.01	0.05	0.01	0.02	0.07	0.03	0.00	0.04	0.01	0.02	0.05	0.03	0.00	0.01	0.00	0.03	0.06	0.03	0.01	0.01	0.00	0.02	0.03	0.02	0.00	0.06	0.01
29	0.01	0.08	0.01	0.02	0.03	0.02	0.00	0.04	0.01	0.02	0.03	0.02	0.00	0.03	0.01	0.03	0.07	0.03	0.01	0.05	0.01	0.02	0.06	0.03	0.01	0.06	0.01
30	0.01	0.04	0.01	0.02	0.07	0.03	0.00	0.01	0.01	0.02	0.04	0.03	0.00	0.04	0.01	0.03	0.04	0.03	0.01	0.05	0.01	0.02	0.06	0.02	0.01	0.01	0.00
31	0.01	0.02	0.01	0.02	0.06	0.02	0.00	0.03	0.01	0.02	0.03	0.02	0.00	0.02	0.00	0.03	0.07	0.03	0.01	0.05	0.01	0.02	0.04	0.02	0.01	0.05	0.01
Monthly Min/Max/Avg	0.01	0.08	0.01	0.02	0.07	0.02	0.00	0.05	0.01	0.02	0.06	0.02	0.01	0.09	0.01	0.03	0.08	0.03	0.01	0.06	0.01	0.02	0.07	0.02	0.01	0.07	0.01

NOTES: ' -- ' indicates filter offline

1.2.10 E.L. Smith Filters 10 - 18 Turbidity (NTU)

January 2025

Filter	10			11			12			13			14			15			16			17			18		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	0.02	0.07	0.03	0.01	0.07	0.01	0.00	0.05	0.01	0.03	0.03	0.03	--	--	--	0.04	0.08	0.04	0.04	0.08	0.04	0.04	0.05	0.04	0.02	0.06	0.03
2	0.02	0.04	0.03	0.01	0.07	0.01	0.00	0.05	0.01	0.03	0.07	0.03	--	--	--	0.04	0.07	0.04	0.04	0.04	0.04	0.03	0.08	0.04	0.03	0.03	0.03
3	0.02	0.07	0.03	0.01	0.05	0.00	0.00	0.05	0.01	0.03	0.06	0.03	--	--	--	0.04	0.08	0.05	0.04	0.08	0.04	0.03	0.04	0.04	0.03	0.07	0.03
4	0.02	0.07	0.03	0.01	0.04	0.01	0.00	0.05	0.01	0.03	0.03	0.03	--	--	--	0.04	0.04	0.04	0.03	0.08	0.04	0.04	0.08	0.04	0.02	0.06	0.03
5	0.02	0.06	0.02	0.01	0.06	0.01	0.00	0.02	0.01	0.03	0.07	0.03	--	--	--	0.04	0.08	0.04	0.03	0.08	0.04	0.03	0.08	0.04	0.03	0.03	0.03
6	0.02	0.08	0.03	0.01	0.06	0.01	0.00	0.04	0.01	0.03	0.06	0.03	--	--	--	0.04	0.08	0.04	0.04	0.05	0.04	0.03	0.08	0.04	0.02	0.06	0.03
7	0.02	0.07	0.03	0.01	0.05	0.01	0.00	0.05	0.01	0.03	0.03	0.03	0.04	0.08	0.05	0.04	0.08	0.04	0.04	0.08	0.04	0.04	0.05	0.04	0.03	0.06	0.03
8	0.02	0.06	0.03	0.01	0.06	0.01	0.00	0.05	0.01	0.03	0.06	0.03	0.03	0.04	0.03	0.04	0.05	0.04	0.03	0.08	0.04	0.03	0.08	0.04	0.03	0.04	0.03
9	0.02	0.05	0.03	0.01	0.05	0.01	0.00	0.04	0.01	0.02	0.06	0.03	0.03	0.08	0.04	0.04	0.08	0.05	0.04	0.05	0.04	0.03	0.08	0.04	0.03	0.06	0.03
10	0.02	0.07	0.03	0.01	0.06	0.01	0.00	0.05	0.01	0.02	0.06	0.03	0.03	0.08	0.04	0.04	0.08	0.04	0.04	0.08	0.04	0.04	0.05	0.04	0.02	0.06	0.03
11	0.02	0.06	0.03	0.01	0.06	0.01	0.00	0.04	0.01	0.03	0.03	0.03	0.04	0.08	0.04	0.04	0.08	0.04	0.04	0.08	0.04	0.04	0.08	0.04	0.02	0.04	0.03
12	0.02	0.03	0.02	0.01	0.05	0.00	0.00	0.04	0.01	0.03	0.06	0.04	0.03	0.08	0.04	0.04	0.05	0.04	0.04	0.07	0.04	0.04	0.08	0.04	0.02	0.06	0.03
13	0.02	0.06	0.03	0.01	0.02	0.00	0.00	0.04	0.01	0.03	0.03	0.03	0.03	0.05	0.04	0.04	0.08	0.04	0.04	0.08	0.04	0.04	0.08	0.04	0.02	0.06	0.03
14	0.02	0.07	0.03	0.01	0.05	0.00	0.00	0.03	0.01	0.03	0.07	0.03	0.04	0.08	0.04	0.04	0.08	0.04	0.04	0.08	0.04	0.03	0.04	0.04	0.03	0.03	0.03
15	0.02	0.09	0.03	0.01	0.07	0.01	0.00	0.05	0.01	0.03	0.08	0.04	0.03	0.08	0.04	0.04	0.08	0.05	0.04	0.04	0.04	0.04	0.08	0.04	0.03	0.07	0.03
16	0.02	0.05	0.03	0.01	0.07	0.01	0.01	0.06	0.02	0.03	0.03	0.03	0.04	0.08	0.04	0.04	0.05	0.04	0.04	0.08	0.05	0.04	0.09	0.05	0.03	0.07	0.03
17	0.02	0.08	0.03	0.01	0.06	0.01	0.01	0.05	0.01	0.03	0.07	0.04	0.04	0.07	0.04	0.04	0.08	0.05	0.04	0.08	0.04	0.04	0.08	0.04	0.03	0.04	0.03
18	0.02	0.07	0.03	0.01	0.05	0.01	0.01	0.05	0.01	0.03	0.07	0.03	0.04	0.08	0.04	0.04	0.08	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.03	0.06	0.03
19	0.02	0.03	0.03	0.01	0.05	0.01	0.00	0.04	0.01	0.03	0.03	0.03	0.03	0.08	0.04	0.04	0.04	0.04	0.04	0.08	0.04	0.03	0.08	0.04	0.02	0.05	0.03
20	0.02	0.06	0.03	0.01	0.05	0.00	0.00	0.04	0.01	0.03	0.06	0.03	0.03	0.04	0.04	0.04	0.08	0.04	0.04	0.07	0.04	0.03	0.08	0.04	0.02	0.03	0.03
21	0.02	0.07	0.03	0.01	0.01	0.00	0.00	0.04	0.01	0.03	0.06	0.03	0.04	0.08	0.04	0.04	0.08	0.04	0.04	0.07	0.04	0.04	0.04	0.04	0.02	0.07	0.03
22	0.03	0.05	0.03	0.01	0.06	0.01	0.01	0.04	0.01	0.03	0.07	0.03	0.04	0.08	0.05	0.04	0.05	0.04	0.04	0.05	0.04	0.04	0.08	0.05	0.03	0.06	0.03
23	0.02	0.07	0.03	0.01	0.06	0.01	0.01	0.02	0.01	0.03	0.04	0.03	0.04	0.04	0.04	0.04	0.08	0.05	0.04	0.08	0.04	0.04	0.08	0.04	0.03	0.06	0.03
24	0.03	0.07	0.04	0.01	0.06	0.00	0.01	0.04	0.01	0.03	0.06	0.04	0.04	0.07	0.04	0.04	0.08	0.05	0.04	0.08	0.04	0.04	0.08	0.04	0.03	0.03	0.03
25	0.03	0.07	0.03	0.01	0.03	0.01	0.01	0.05	0.01	0.03	0.07	0.04	0.04	0.08	0.04	0.04	0.07	0.05	0.04	0.08	0.04	0.04	0.08	0.04	0.03	0.06	0.03
26	0.02	0.04	0.03	0.01	0.06	0.01	0.01	0.05	0.01	0.03	0.07	0.03	0.04	0.08	0.04	0.04	0.05	0.04	0.04	0.05	0.04	0.04	0.07	0.04	0.03	0.06	0.03
27	0.02	0.07	0.04	0.01	0.06	0.01	0.00	0.05	0.01	0.03	0.05	0.03	0.04	0.07	0.04	0.04	0.08	0.05	0.04	0.08	0.04	0.04	0.08	0.04	0.02	0.03	0.03
28	0.03	0.07	0.03	0.01	0.01	0.00	0.01	0.03	0.01	0.03	0.07	0.04	0.03	0.08	0.04	0.04	0.08	0.05	0.04	0.07	0.04	0.04	0.05	0.04	0.03	0.07	0.03
29	0.03	0.05	0.03	0.01	0.05	0.01	0.01	0.04	0.02	0.03	0.06	0.03	0.03	0.08	0.04	0.04	0.05	0.04	0.04	0.05	0.04	0.04	0.08	0.04	0.03	0.06	0.03
30	0.03	0.08	0.03	0.01	0.05	0.01	0.01	0.04	0.01	0.03	0.05	0.03	0.03	0.04	0.04	0.04	0.08	0.05	0.04	0.08	0.04	0.04	0.04	0.04	0.02	0.03	0.03
31	0.03	0.08	0.03	0.01	0.05	0.00	0.00	0.04	0.01	0.03	0.06	0.04	0.03	0.08	0.04	0.04	0.08	0.04	0.04	0.07	0.04	0.04	0.08	0.04	0.03	0.06	0.03
Monthly Min/Max/Avg	0.02	0.09	0.03	0.01	0.07	0.01	0.00	0.06	0.01	0.02	0.08	0.03	0.03	0.08	0.04	0.04	0.08	0.04	0.03	0.08	0.04	0.03	0.09	0.04	0.02	0.07	0.03

NOTES: ' -- ' indicates filter offline

1.2.11 Combined Filter Effluent Water Quality

January 2025

Day	Rossdale						E.L. Smith					
	Particle Counts (no./mL,>2um)			Turbidity (NTU)			Particle Counts (no./mL,>2um)			Turbidity (NTU)		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	2	4	2	0.05	0.05	0.05	4	8	5	0.02	0.03	0.02
2	2	5	3	0.05	0.06	0.05	5	8	6	0.02	0.03	0.02
3	2	8	3	0.05	0.05	0.05	5	8	6	0.02	0.03	0.02
4	2	4	3	0.05	0.09	0.05	4	8	5	0.02	0.02	0.02
5	2	4	2	0.05	0.05	0.05	4	7	5	0.02	0.02	0.02
6	2	6	3	0.05	0.05	0.05	4	8	5	0.02	0.03	0.02
7	2	14	3	0.05	0.05	0.05	5	8	7	0.02	0.02	0.02
8	2	5	3	0.05	0.05	0.05	5	9	6	0.02	0.03	0.02
9	2	5	3	0.05	0.06	0.05	5	9	6	0.02	0.03	0.02
10	2	5	3	0.05	0.05	0.05	5	8	5	0.02	0.03	0.02
11	2	5	3	0.05	0.05	0.05	5	7	5	0.02	0.03	0.02
12	2	5	3	0.04	0.05	0.05	4	7	5	0.02	0.02	0.02
13	2	5	3	0.05	0.06	0.05	1	7	5	0.01	0.03	0.02
14	2	6	4	0.05	0.05	0.05	4	7	6	0.02	0.02	0.02
15	3	7	4	0.04	0.05	0.05	5	9	7	0.02	0.03	0.02
16	3	9	6	0.05	0.05	0.05	6	9	7	0.02	0.03	0.02
17	4	10	6	0.05	0.05	0.05	6	9	7	0.02	0.03	0.02
18	3	8	4	0.05	0.05	0.05	5	7	6	0.02	0.03	0.02
19	2	7	4	0.05	0.05	0.05	4	9	5	0.02	0.02	0.02
20	2	7	3	0.05	0.05	0.05	4	7	5	0.02	0.02	0.02
21	3	11	5	0.05	0.07	0.05	5	11	7	0.02	0.03	0.02
22	3	15	4	0.05	0.05	0.05	5	11	7	0.02	0.03	0.03
23	3	7	4	0.05	0.08	0.05	1	14	7	0.01	0.05	0.02
24	2	8	4	0.05	0.05	0.05	6	11	8	0.02	0.03	0.02
25	3	14	6	0.05	0.05	0.05	6	12	7	0.02	0.03	0.02
26	3	11	5	0.05	0.05	0.05	6	9	7	0.02	0.03	0.02
27	3	10	5	0.05	0.05	0.05	6	9	7	0.02	0.03	0.02
28	4	9	5	0.05	0.05	0.05	6	9	7	0.02	0.03	0.02
29	4	8	5	0.05	0.07	0.05	7	11	8	0.02	0.03	0.02
30	4	22	6	0.05	0.06	0.05	5	9	7	0.02	0.03	0.02
31	3	7	4	0.05	0.08	0.06	5	8	6	0.02	0.03	0.02
Monthly Min/Max/Avg	2	22	4	0.04	0.09	0.05	1	14	6	0.01	0.05	0.02

NOTES: ' -- ' indicates plant offline

1.2.12 Rossdale UV Disinfection - Filters 1 - 3

January 2025

Filter	1						2						3						Transmittance (%)		
Day	Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)					
	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg
1	60.1	65.3	61.7	10.4	16.2	3.7	37.3	45.4	41.9	22.6	27.1	24.2	35.1	45.1	38.5	21.2	26.1	18.8	96.0	96.5	96.2
2	35.9	45.5	40.0	22.1	26.6	23.2	43.0	57.1	51.2	17.0	22.7	16.4	37.7	60.8	48.3	14.2	23.6	18.4	96.0	96.2	96.1
3	42.9	109.0	52.6	14.2	22.3	18.3	37.8	44.3	42.4	22.0	27.4	23.1	40.1	114.0	44.4	14.0	22.7	2.8	95.6	96.3	96.2
4	38.4	109.0	39.2	25.7	27.7	9.2	43.2	66.2	54.1	15.6	22.2	19.1	35.2	49.6	41.5	19.5	25.5	23.0	95.6	96.6	96.3
5	37.9	53.6	43.4	18.9	27.8	24.0	65.9	99.9	70.6	13.9	15.6	5.3	48.7	127.8	55.0	12.8	19.8	14.5	96.3	96.5	96.4
6	49.0	65.4	54.5	15.0	20.6	11.4	41.4	48.2	44.0	22.4	24.9	9.3	--	--	--	--	--	--	96.0	96.6	96.3
7	--	--	--	--	--	--	43.5	52.9	48.3	20.1	22.9	21.6	39.9	49.0	43.3	20.6	24.6	17.9	95.4	96.6	96.3
8	36.6	52.7	38.9	19.3	26.9	10.6	51.3	62.5	56.7	15.5	20.2	10.8	40.0	59.0	46.1	15.3	22.7	20.1	95.9	96.6	96.3
9	37.6	58.5	44.9	18.8	24.9	21.4	35.1	58.2	43.6	19.7	27.9	14.8	54.8	62.9	57.6	12.5	15.5	4.1	94.4	97.1	95.6
10	46.8	58.9	55.9	14.0	19.3	12.1	37.1	53.7	45.9	18.4	26.0	21.9	--	--	--	--	--	--	95.2	96.5	95.9
11	--	--	--	--	--	--	52.0	57.0	52.3	10.4	18.8	15.4	35.1	51.8	39.2	17.8	25.9	23.1	96.0	96.5	96.1
12	35.2	51.9	40.9	19.5	31.2	13.8	--	--	--	--	--	--	41.6	54.3	51.1	12.9	22.2	18.5	96.2	96.7	96.4
13	37.8	54.6	43.2	18.0	27.0	23.0	35.4	50.4	40.7	20.1	29.4	17.5	66.6	114.7	70.0	11.3	13.4	4.6	95.6	96.6	96.1
14	53.8	127.7	58.3	15.3	18.4	8.4	38.7	55.7	48.4	18.6	27.1	21.5	35.2	57.3	37.9	17.8	28.9	14.0	96.1	96.6	96.4
15	35.4	53.8	44.3	19.3	30.3	10.8	50.3	64.4	57.3	14.0	18.7	7.1	35.4	50.4	42.9	18.8	26.9	22.4	94.2	96.4	96.2
16	35.3	46.7	40.6	19.8	30.2	24.2	--	--	--	--	--	--	49.5	76.8	63.2	11.0	19.0	10.2	96.0	96.4	96.2
17	43.9	50.6	47.6	16.6	20.0	7.8	36.7	41.6	39.4	23.3	26.9	14.2	35.3	51.2	42.2	17.2	25.8	9.3	95.3	96.1	95.7
18	--	--	--	--	--	--	39.2	52.8	45.5	20.3	25.9	23.1	36.8	49.6	42.6	19.9	25.8	22.7	95.9	96.9	96.4
19	39.5	53.8	45.2	19.3	26.3	23.3	52.5	57.2	54.7	16.3	20.3	3.8	49.2	76.1	60.3	12.4	20.2	11.5	96.4	96.8	96.6
20	42.6	53.3	48.4	17.2	22.7	20.2	39.1	54.0	42.2	19.7	24.4	7.9	--	--	--	--	--	--	95.7	96.8	96.2
21	51.5	58.5	53.6	12.9	17.2	3.6	40.0	52.1	44.8	19.8	23.7	21.7	35.6	45.4	39.9	21.3	26.2	18.8	95.5	96.3	96.0
22	35.1	55.4	38.2	19.0	27.5	4.9	41.7	54.7	43.9	11.8	21.7	1.0	38.5	55.9	46.4	15.7	22.0	18.9	95.5	96.7	96.1
23	35.4	42.4	38.9	20.0	26.8	21.9	34.4	60.4	38.5	15.2	25.3	20.7	47.0	59.3	48.4	13.3	16.9	1.4	95.0	95.9	95.4
24	42.0	54.4	44.1	11.2	20.6	12.3	39.2	50.4	44.0	17.6	22.4	19.7	--	--	--	--	--	--	94.9	96.1	95.7
25	--	--	--	--	--	--	42.6	57.3	47.5	13.9	20.0	10.8	34.8	52.5	36.7	15.1	26.5	21.2	95.4	95.6	95.5
26	35.1	38.2	35.7	23.2	30.2	14.7	--	--	--	--	--	--	35.8	56.1	42.7	15.1	22.4	18.7	95.4	96.2	95.5
27	35.4	43.0	38.1	19.6	27.2	23.7	35.4	45.8	39.0	19.9	27.0	14.6	54.8	58.6	57.6	11.6	15.2	5.4	95.6	96.2	95.9
28	42.7	73.4	46.7	10.5	19.8	8.3	35.4	43.3	37.8	19.3	26.2	22.7	36.8	38.2	38.3	21.2	21.9	1.3	95.3	95.6	95.4
29	35.2	39.7	36.0	22.2	30.4	15.8	42.6	47.7	44.0	17.0	19.5	7.3	35.1	43.1	37.2	18.3	26.4	22.7	95.3	95.8	95.5
30	35.3	43.2	38.3	18.7	26.2	22.0	--	--	--	--	--	--	36.9	46.7	42.0	16.2	21.7	18.4	94.8	95.8	95.3
31	40.7	55.1	47.9	13.3	20.0	11.8	35.4	43.6	36.3	19.9	28.4	21.3	46.3	56.9	51.6	12.3	16.5	2.8	95.1	96.0	95.6
Monthly Total						404.6						416.8						385.5			
Monthly Min/Max/ Avg	35.1	127.7	45.1	10.4	31.2		34.4	99.9	46.5	10.4	29.4		34.8	127.8	46.8	11.0	28.9		94.2	97.1	96.0

NOTES: - Each filter has a UV reactor

- Transmittance (%) is a grab sample of the filter effluent prior to the UV reactor of a random online filter

' -- ' indicates filter and UV reactor offline

1.2.13 Rossdale UV Disinfection - Filters 4 - 6

January 2025

Filter	4						5						6						Transmittance (%)		
Day	Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)					
	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg
1	48.4	63.4	53.8	15.7	21.2	18.9	41.1	46.0	43.8	22.0	24.9	7.1	40.3	54.2	45.1	18.3	26.7	23.0	96.0	96.5	96.2
2	45.3	60.2	48.0	16.1	22.7	2.9	41.1	58.6	49.2	17.5	24.8	20.9	53.7	58.0	56.0	12.7	18.3	2.7	96.0	96.2	96.1
3	42.0	50.5	47.7	19.7	25.0	21.6	57.9	70.9	66.6	14.4	17.6	8.8	44.4	50.0	48.4	19.9	21.8	8.6	95.6	96.3	96.2
4	48.1	83.3	58.8	12.7	20.0	12.3	44.7	45.7	45.1	23.3	23.8	0.4	40.8	54.2	46.2	19.9	26.1	23.3	95.6	96.6	96.3
5	41.8	50.1	44.9	22.6	26.8	7.0	40.8	59.1	47.1	18.8	28.0	24.0	54.1	72.7	61.1	14.2	20.2	11.3	96.3	96.5	96.4
6	38.6	62.1	45.4	17.9	28.5	24.3	52.3	88.5	63.9	11.7	20.9	16.7	35.5	40.5	37.4	26.3	33.3	2.6	96.0	96.6	96.3
7	60.5	70.1	65.0	15.4	18.3	3.2	45.3	47.0	45.8	22.9	23.4	0.5	40.1	54.9	46.1	19.5	28.4	23.8	95.4	96.6	96.3
8	--	--	--	--	--	--	39.4	55.4	45.1	19.2	26.4	24.0	47.8	69.3	55.2	14.1	21.6	18.0	95.9	96.6	96.3
9	37.3	59.6	45.8	19.9	25.4	17.2	50.9	85.5	63.9	11.5	19.4	9.9	--	--	--	--	--	--	94.4	97.1	95.6
10	41.7	54.6	52.8	16.1	23.6	19.6	--	--	--	--	--	--	39.0	49.2	39.4	20.7	30.1	9.8	95.2	96.5	95.9
11	40.6	51.7	44.8	11.9	16.5	1.6	40.8	48.4	44.2	22.4	26.4	11.1	36.0	55.3	43.3	18.6	29.5	24.5	96.0	96.5	96.1
12	37.0	42.3	38.2	26.8	30.5	2.5	44.8	57.1	52.2	16.1	24.0	21.2	53.6	58.3	54.3	12.5	19.2	16.2	96.2	96.7	96.4
13	37.2	53.9	44.0	20.1	29.0	24.5	62.6	80.9	67.6	13.5	16.4	7.9	--	--	--	--	--	--	95.6	96.6	96.1
14	51.7	77.6	66.3	14.2	20.7	16.2	--	--	--	--	--	--	--	--	--	--	--	--	96.1	96.6	96.4
15	74.8	81.9	76.9	13.1	14.5	0.4	--	--	--	--	--	--	35.3	44.6	39.2	24.4	31.7	27.1	94.2	96.4	96.2
16	40.0	48.8	45.6	21.5	25.9	7.0	37.9	52.2	42.5	19.7	28.3	23.0	41.5	63.9	52.9	15.0	26.2	19.4	96.0	96.4	96.2
17	37.8	55.3	45.8	18.7	25.7	21.8	44.6	56.8	50.0	13.3	21.6	10.5	59.2	63.8	62.9	13.5	15.0	2.6	95.3	96.1	95.7
18	54.4	75.1	63.7	15.2	18.9	12.5	--	--	--	--	--	--	44.3	52.6	49.4	20.4	21.3	6.6	95.9	96.9	96.4
19	41.2	59.0	55.0	19.8	28.6	6.3	43.1	53.8	48.7	21.7	25.9	19.2	40.4	53.5	47.1	20.7	27.3	23.8	96.4	96.8	96.6
20	42.5	56.5	47.7	20.3	24.6	22.8	48.3	56.5	55.6	14.2	22.1	18.3	50.9	57.1	53.7	17.7	22.1	9.2	95.7	96.8	96.2
21	48.0	57.5	52.6	12.0	20.7	6.6	42.7	50.1	45.5	22.0	22.8	11.2	--	--	--	--	--	--	95.5	96.3	96.0
22	39.9	50.1	43.9	14.4	25.7	18.9	43.5	58.7	50.1	17.1	23.0	20.1	35.5	37.0	36.0	25.8	30.0	13.0	95.5	96.7	96.1
23	--	--	--	--	--	--	50.1	68.9	57.9	12.2	17.4	3.7	35.0	47.6	41.7	19.2	27.9	21.6	95.0	95.9	95.4
24	36.4	57.5	42.6	17.6	26.0	8.4	--	--	--	--	--	--	47.2	53.1	49.9	16.8	19.3	5.4	94.9	96.1	95.7
25	37.0	45.7	41.0	19.9	25.4	22.6	35.8	41.1	37.8	22.6	26.1	10.7	--	--	--	--	--	--	95.4	95.6	95.5
26	42.6	75.0	54.8	13.0	21.5	16.8	36.8	58.2	44.6	16.8	25.1	20.9	35.4	41.1	35.9	23.3	30.2	26.1	95.4	96.2	95.5
27	52.9	72.4	60.7	13.1	16.8	0.0	57.5	69.6	62.1	12.3	17.0	10.2	41.1	52.5	45.6	16.8	23.9	20.7	95.6	96.2	95.9
28	38.0	52.2	42.2	17.7	24.4	12.8	--	--	--	--	--	--	51.7	56.0	53.6	15.5	16.9	1.3	95.3	95.6	95.4
29	38.8	52.8	43.1	17.4	23.7	21.5	37.4	42.5	39.6	22.0	25.1	2.0	--	--	--	--	--	--	95.3	95.8	95.5
30	50.0	54.2	53.2	11.0	18.1	11.1	35.1	46.3	40.0	19.4	27.8	23.1	35.2	45.4	36.6	19.7	33.6	19.2	94.8	95.8	95.3
31	38.6	48.7	41.4	20.3	25.8	8.4	44.1	68.4	56.2	13.3	20.4	15.8	35.4	52.6	42.0	18.0	28.1	22.7	95.1	96.0	95.6
Monthly Total						369.8						341.2						382.5			
Monthly Min/Max/ Avg	36.4	83.3	50.5	11.0	30.5		35.1	88.5	50.6	11.5	28.3		35.0	72.7	47.2	12.5	33.6		94.2	97.1	96.0

NOTES: - Each filter has a UV reactor

- Transmittance (%) is a grab sample of the filter effluent prior to the UV reactor of a random online filter

' -- ' indicates filter and UV reactor offline

1.2.14 Rossdale UV Disinfection - Filters 7 - 9

January 2025

Filter	7						8						9						Transmittance (%)		
Day	Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)					
	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg
1	34.2	40.7	36.7	22.7	28.1	24.7	47.6	62.0	50.7	15.4	21.5	16.8	50.5	63.0	54.7	15.3	20.6	13.5	96.0	96.5	96.2
2	36.5	43.2	39.5	19.3	23.4	12.3	38.2	41.3	40.0	24.6	26.2	10.8	37.3	49.4	44.5	20.5	27.7	18.6	96.0	96.2	96.1
3	--	--	--	--	--	--	38.1	45.5	42.2	21.2	27.1	24.1	37.5	50.3	43.4	19.0	27.6	23.8	95.6	96.3	96.2
4	34.8	38.3	36.1	24.3	29.4	19.7	44.8	68.2	55.8	15.5	21.5	18.6	49.7	60.0	52.1	17.2	19.3	5.7	95.6	96.6	96.3
5	34.8	48.2	39.1	18.6	27.6	23.8	67.2	74.8	69.6	13.6	15.5	0.8	35.8	53.1	40.1	21.5	30.7	16.0	96.3	96.5	96.4
6	42.9	48.0	45.9	18.1	21.0	7.9	39.8	48.2	42.3	22.7	25.9	15.4	38.6	55.4	44.1	19.7	28.4	24.6	96.0	96.6	96.3
7	35.4	42.1	37.2	23.4	25.3	13.4	42.9	55.4	49.3	18.8	23.1	21.4	52.5	62.0	57.3	15.7	20.0	9.0	95.4	96.6	96.3
8	34.9	41.0	37.1	21.3	29.5	25.3	54.8	56.8	58.3	18.4	18.9	0.4	36.6	42.5	38.1	25.8	29.6	2.0	95.9	96.6	96.3
9	38.2	62.1	47.4	15.5	21.5	17.6	--	--	--	--	--	--	34.4	51.8	39.6	22.8	29.1	26.3	94.4	97.1	95.6
10	49.1	55.1	52.9	13.6	16.0	1.3	35.2	41.9	38.2	24.9	33.5	25.7	38.3	54.6	47.0	18.3	25.8	21.9	95.2	96.5	95.9
11	35.1	43.3	36.4	20.7	25.9	2.8	39.3	58.2	46.6	17.4	26.2	22.1	52.8	54.6	53.9	15.3	18.8	11.2	96.0	96.5	96.1
12	34.3	37.1	35.7	24.4	32.0	29.1	54.9	59.3	55.1	14.8	18.2	9.4	--	--	--	--	--	--	96.2	96.7	96.4
13	36.4	49.4	40.6	17.6	24.6	21.4	--	--	--	--	--	--	35.2	52.5	41.3	21.1	29.8	12.8	95.6	96.6	96.1
14	48.7	55.0	51.5	15.6	17.8	1.0	35.4	53.0	39.3	20.2	30.6	26.1	38.2	46.5	42.3	23.5	28.7	25.7	96.1	96.6	96.4
15	--	--	--	--	--	--	38.1	50.2	44.6	21.0	28.4	23.6	42.7	60.9	51.8	17.3	24.1	19.6	94.2	96.4	96.2
16	35.0	36.5	35.7	25.5	29.6	15.2	49.5	63.4	53.5	15.6	21.1	9.3	60.0	71.7	63.6	14.4	17.5	2.4	96.0	96.4	96.2
17	35.3	40.7	36.3	20.5	27.8	24.1	--	--	--	--	--	--	36.5	45.8	38.9	21.3	27.6	21.3	95.3	96.1	95.7
18	40.6	41.0	40.9	20.7	20.6	0.1	40.1	49.9	46.5	20.1	25.5	22.4	38.4	50.8	44.0	22.0	27.4	24.5	95.9	96.9	96.4
19	--	--	--	--	--	--	44.3	58.1	49.9	19.2	25.0	22.0	49.9	52.2	51.7	12.5	22.2	0.8	96.4	96.8	96.6
20	35.3	39.1	36.0	23.5	29.2	24.3	38.6	55.3	51.7	12.5	25.4	3.7	39.2	49.5	43.2	20.9	26.0	12.9	95.7	96.8	96.2
21	35.4	49.1	37.8	16.3	24.0	11.4	38.1	47.9	41.9	22.4	25.8	23.9	40.4	51.7	45.5	20.6	24.6	22.2	95.5	96.3	96.0
22	35.8	39.9	38.5	20.2	22.5	0.2	38.4	51.7	44.3	16.9	24.9	22.0	43.0	55.2	46.8	12.1	22.3	12.2	95.5	96.7	96.1
23	35.2	37.9	35.7	22.2	29.6	24.0	--	--	--	--	--	--	35.1	46.3	37.4	21.2	28.5	18.7	95.0	95.9	95.4
24	35.3	40.0	36.9	18.5	24.7	21.3	35.2	58.9	36.6	15.8	30.2	21.8	35.3	43.6	39.5	20.9	26.9	23.4	94.9	96.1	95.7
25	38.8	41.1	40.0	17.8	18.7	2.2	35.3	41.1	37.6	21.6	27.1	24.0	39.4	49.7	44.0	17.6	22.9	20.3	95.4	95.6	95.5
26	35.4	39.3	36.1	20.5	31.3	1.5	39.3	53.9	45.1	15.7	22.6	11.4	48.7	77.4	51.0	10.2	17.9	2.0	95.4	96.2	95.5
27	34.8	36.2	35.6	25.4	31.7	28.8	--	--	--	--	--	--	36.1	46.4	42.0	20.4	25.6	7.6	95.6	96.2	95.9
28	34.2	38.4	36.1	19.0	25.5	20.2	35.4	45.6	37.8	19.9	25.1	22.0	35.3	43.2	37.6	20.3	25.3	24.0	95.3	95.6	95.4
29	--	--	--	--	--	--	35.3	46.7	39.0	19.1	25.9	23.1	38.2	48.8	42.2	12.3	23.6	20.2	95.3	95.8	95.5
30	35.2	36.3	35.7	19.7	31.5	9.7	44.0	50.4	46.2	11.1	20.1	6.6	--	--	--	--	--	--	94.8	95.8	95.3
31	35.2	36.1	35.7	22.4	31.3	27.1	--	--	--	--	--	--	46.0	47.5	46.5	20.4	21.0	1.5	95.1	96.0	95.6
Monthly Total						410.3						427.3						444.6			
Monthly Min/Max/ Avg	34.2	62.1	39.0	13.6	32.0		35.2	74.8	46.5	11.1	33.5		34.4	77.4	45.7	10.2	30.7		94.2	97.1	96.0

NOTES: - Each filter has a UV reactor

- Transmittance (%) is a grab sample of the filter effluent prior to the UV reactor of a random online filter

' -- ' indicates filter and UV reactor offline

1.2.15 E.L. Smith UV Disinfection - UV Reactors 1 - 4

January 2025

Filter	1						2						3						4						Transmittance (%)		
Day	Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)					
	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg
1	46.0	55.9	50.9	67.7	88.1	77.1	46.9	53.7	50.5	65.2	83.0	74.1	60.3	69.1	64.7	68.4	87.6	77.4	--	--	--	--	--	--	95.9	96.0	95.9
2	46.9	53.2	49.4	71.3	89.6	82.6	46.0	50.5	48.0	70.2	86.9	79.8	60.2	66.7	62.8	72.4	88.5	82.8	--	--	--	--	--	--	95.9	96.1	96.0
3	48.8	54.6	50.9	73.0	91.4	83.4	47.7	53.2	50.0	70.4	88.8	80.4	62.9	68.9	65.0	72.8	91.0	83.5	--	--	--	--	--	--	96.0	96.4	96.2
4	49.3	53.9	51.3	76.1	91.8	85.2	48.0	53.4	50.2	73.2	89.0	82.3	63.2	68.0	65.2	77.0	90.6	85.5	--	--	--	--	--	--	96.3	96.5	96.4
5	49.5	54.3	51.4	76.7	91.0	85.3	48.8	54.2	50.5	71.9	88.5	82.3	63.1	68.2	65.5	76.7	90.7	85.7	--	--	--	--	--	--	96.2	96.5	96.4
6	46.5	53.4	49.5	76.7	98.0	89.0	45.1	54.1	48.7	72.1	95.3	86.1	60.1	69.2	63.4	76.8	97.2	89.3	--	--	--	--	--	--	96.4	96.5	96.4
7	45.0	88.0	51.2	82.7	101.9	92.3	46.1	82.1	63.5	79.1	97.3	89.1	56.7	64.2	60.2	83.7	100.7	92.8	--	--	--	--	--	--	96.2	96.7	96.4
8	73.2	81.5	76.0	87.1	103.2	95.6	70.8	77.9	73.4	82.7	100.8	92.4	54.5	59.5	56.9	86.5	102.9	96.2	--	--	--	--	--	--	95.9	96.2	96.0
9	75.0	109.3	78.0	68.9	109.0	94.9	75.9	106.0	76.8	66.4	104.5	91.6	57.8	118.8	58.0	68.5	106.8	95.4	--	--	--	--	--	--	96.0	96.8	96.3
10	74.0	83.1	77.7	80.5	102.7	95.8	73.0	80.4	76.7	77.7	100.4	92.6	50.2	54.8	52.1	80.6	102.1	96.2	--	--	--	--	--	--	95.1	96.8	95.9
11	74.2	80.7	77.4	83.2	103.0	96.4	73.9	80.4	76.6	79.8	99.5	93.0	50.0	56.4	52.7	83.5	102.5	96.8	--	--	--	--	--	--	95.5	96.8	96.5
12	75.6	82.4	77.8	84.8	103.7	95.9	74.8	80.7	77.3	81.4	99.8	92.7	51.3	55.4	52.7	86.6	102.3	96.7	--	--	--	--	--	--	95.2	96.8	96.0
13	49.0	137.1	61.5	75.2	138.9	90.8	59.3	281.8	65.8	47.9	99.1	66.0	45.2	160.5	58.4	76.9	134.7	91.7	--	--	--	--	--	--	95.4	96.8	96.6
14	48.6	55.3	50.6	78.8	96.1	87.8	54.8	61.8	57.2	74.9	93.5	85.0	62.4	70.5	65.7	78.9	94.5	87.9	--	--	--	--	--	--	96.3	96.6	96.4
15	49.3	57.3	53.3	75.2	91.0	83.9	54.5	63.1	59.9	71.6	89.0	81.0	63.8	73.1	68.5	75.7	90.1	84.0	--	--	--	--	--	--	96.4	96.7	96.6
16	46.8	82.4	67.3	76.0	96.1	87.5	48.9	58.0	52.5	72.5	92.8	84.4	57.6	66.6	60.8	76.0	95.6	87.4	--	--	--	--	--	--	96.0	96.4	96.3
17	74.8	83.9	79.0	80.7	103.4	93.6	48.3	53.7	50.4	78.7	100.4	90.2	55.9	61.7	58.6	81.0	101.6	93.4	--	--	--	--	--	--	95.8	96.2	96.1
18	78.1	85.4	80.9	86.6	102.8	96.0	48.4	53.8	51.8	83.8	100.4	92.6	59.1	64.8	61.1	87.4	101.8	95.9	--	--	--	--	--	--	95.8	96.7	96.4
19	47.4	89.3	62.4	82.2	102.5	90.8	51.0	59.2	54.3	78.3	98.2	87.6	59.9	66.5	63.4	82.0	100.8	90.6	--	--	--	--	--	--	96.0	96.6	96.4
20	46.3	100.6	60.3	79.1	100.7	65.8	47.4	99.2	59.8	77.7	125.8	96.8	54.7	102.4	65.4	81.4	144.6	106.2	--	--	--	--	--	--	96.0	96.3	96.2
21	68.3	75.4	71.7	76.3	98.9	88.7	46.9	56.4	51.3	71.6	97.2	86.0	54.6	60.7	57.3	81.4	105.2	94.8	--	--	--	--	--	--	95.9	96.2	96.1
22	61.2	72.2	65.4	79.5	99.0	89.7	44.9	86.4	51.7	74.8	96.1	86.3	49.0	55.7	52.3	84.7	105.1	95.6	--	--	--	--	--	--	95.5	96.5	95.8
23	57.1	204.8	58.3	72.9	125.1	84.5	47.8	259.7	71.9	70.7	119.3	81.3	44.5	212.9	57.6	47.1	106.4	75.3	--	--	--	--	--	--	95.2	95.8	95.5
24	59.4	92.3	62.9	85.8	100.9	94.1	75.6	113.2	79.9	82.1	98.4	91.0	72.7	88.4	79.9	91.8	107.0	100.8	--	--	--	--	--	--	95.1	95.4	95.2
25	59.3	71.7	62.6	76.3	101.3	94.2	77.5	84.4	80.0	75.2	97.7	90.7	82.6	89.6	84.8	82.9	109.4	100.6	--	--	--	--	--	--	95.1	95.4	95.3
26	62.2	70.5	65.7	77.9	99.3	91.1	79.5	91.0	83.6	76.1	96.1	88.0	50.4	91.2	73.8	84.6	103.9	97.4	--	--	--	--	--	--	95.4	95.7	95.6
27	62.9	71.8	66.6	77.9	98.0	88.2	80.4	90.2	84.9	76.6	95.5	85.3	49.0	53.6	51.3	85.2	103.2	94.3	--	--	--	--	--	--	95.3	95.8	95.6
28	64.5	70.1	66.1	79.2	93.7	87.2	80.0	88.7	83.3	74.8	90.4	84.2	49.5	54.6	51.4	83.8	98.7	93.1	--	--	--	--	--	--	95.2	95.5	95.4
29	63.1	69.6	65.6	78.0	94.3	87.5	78.3	85.9	82.3	74.9	93.2	84.5	48.6	53.6	50.8	84.6	98.8	93.3	--	--	--	--	--	--	95.1	95.5	95.3
30	64.5	72.2	67.5	75.7	94.3	87.3	81.2	95.1	85.9	73.3	91.8	84.5	50.3	54.5	52.8	81.4	98.6	93.1	--	--	--	--	--	--	95.4	96.9	95.9
31	63.9	71.3	67.7	76.4	100.4	89.7	46.3	94.8	79.1	75.8	99.8	86.8	49.5	57.2	53.1	82.4	106.8	95.8	--	--	--	--	--	--	95.8	95.9	95.8
Monthly Total						2,752.1						2,668.7						2,849.6						0.0			
Monthly Min/Max/ Avg	45.0	204.8	63.8	67.7	138.9		44.9	281.8	65.4	47.9	125.8		44.5	212.9	60.8	47.1	144.6		--	--	--	--	--		95.1	96.9	96.0

NOTES: ' -- ' indicates UV reactor offline

- Transmittance (%) is a grab sample of the combined filter effluent prior to the UV reactor

1.2.16 Log Removal

January 2025

Day	Rossdale									E.L. Smith								
	Log Removal									Log Removal								
	Giardia			Virus			*Cryptosporidium*			*Giardia*			Virus			*Cryptosporidium*		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	7.6	8.0	7.7	13	14	13	6.5	6.5	6.5	6.6	6.7	6.7	5.9	7.7	6.9	6.5	6.5	6.5
2	7.8	8.5	7.9	12	14	13	6.5	6.5	6.5	6.6	6.7	6.7	5.8	8.1	6.9	6.5	6.5	6.5
3	7.5	8.1	7.8	13	14	13	6.5	6.5	6.5	6.7	6.7	6.7	6.4	7.1	6.7	6.5	6.5	6.5
4	7.7	8.1	7.9	12	14	13	6.5	6.5	6.5	6.6	6.7	6.7	5.8	7.2	6.6	6.5	6.5	6.5
5	7.7	8.1	7.8	12	14	13	6.5	6.5	6.5	6.6	6.7	6.7	5.6	7.5	6.9	6.5	6.5	6.5
6	7.7	8.0	8.0	12	14	13	6.5	6.5	6.5	6.6	6.7	6.7	6.0	7.4	6.9	6.5	6.5	6.5
7	7.8	8.9	8.2	12	14	14	6.5	6.5	6.5	6.6	6.7	6.7	5.7	7.2	6.5	6.5	6.5	6.5
8	7.8	8.5	8.1	12	14	13	6.5	6.5	6.5	6.6	6.7	6.7	6.0	7.1	6.5	6.5	6.5	6.5
9	7.7	8.8	8.2	12	14	13	6.5	6.5	6.5	6.6	6.7	6.7	5.8	7.8	7.0	6.5	6.5	6.5
10	7.8	8.6	8.2	12	14	13	6.5	6.5	6.5	6.7	6.7	6.7	6.6	8.1	7.4	6.5	6.5	6.5
11	7.7	8.6	8.1	12	14	13	6.5	6.5	6.5	6.7	6.7	6.7	6.0	7.5	7.0	6.5	6.5	6.5
12	7.8	8.7	8.2	12	14	13	6.5	6.5	6.5	6.6	6.7	6.7	5.7	7.3	6.6	6.5	6.5	6.5
13	7.9	8.0	8.0	12	13	13	6.5	6.5	6.5	6.7	6.9	6.7	6.1	16	7.0	6.5	6.5	6.5
14	7.9	8.1	8.0	13	14	13	6.5	6.5	6.5	6.7	6.7	6.7	6.2	7.6	7.1	6.5	6.5	6.5
15	7.9	8.1	8.0	12	14	13	6.5	6.5	6.5	6.7	6.7	6.7	5.9	7.8	7.1	6.5	6.5	6.5
16	7.8	8.5	8.3	12	13	13	6.5	6.5	6.5	6.7	6.7	6.7	6.5	8.0	6.9	6.5	6.5	6.5
17	7.9	8.5	8.2	13	14	13	6.5	6.5	6.5	6.6	6.7	6.7	5.8	7.7	6.8	6.5	6.5	6.5
18	7.9	8.1	8.0	13	15	14	6.5	6.5	6.5	6.7	6.7	6.7	5.9	7.7	6.9	6.5	6.5	6.5
19	7.9	8.1	8.0	13	15	14	6.5	6.5	6.5	6.7	6.7	6.7	6.6	7.9	7.2	6.5	6.5	6.5
20	7.7	8.1	7.9	13	14	14	6.5	6.5	6.5	6.7	6.7	6.7	6.3	7.7	7.2	6.5	6.5	6.5
21	7.7	8.6	8.0	13	15	14	6.5	6.5	6.5	6.7	6.7	6.7	6.2	7.7	7.0	6.5	6.5	6.5
22	7.8	8.0	8.0	13	15	14	6.5	6.5	6.5	6.6	6.7	6.7	5.7	7.4	6.8	6.5	6.5	6.5
23	7.9	8.1	8.0	13	15	14	6.5	6.5	6.5	6.7	6.7	6.7	6.3	7.5	6.9	6.5	6.5	6.5
24	7.9	8.0	8.0	13	15	14	6.5	6.5	6.5	6.6	6.7	6.7	5.8	7.4	6.8	6.5	6.5	6.5
25	7.8	8.3	8.0	13	14	13	6.5	6.5	6.5	6.6	6.7	6.7	5.8	7.6	6.8	6.5	6.5	6.5
26	7.3	8.1	7.7	12	13	13	6.5	6.5	6.5	6.7	6.7	6.7	6.6	7.8	7.2	6.5	6.5	6.5
27	7.3	7.4	7.4	13	14	13	6.5	6.5	6.5	6.7	6.7	6.7	5.9	7.9	7.1	6.5	6.5	6.5
28	7.3	7.6	7.4	13	15	14	6.5	6.5	6.5	6.7	6.7	6.7	6.0	7.8	7.0	6.5	6.5	6.5
29	7.3	7.5	7.4	12	14	14	6.5	6.5	6.5	6.7	6.7	6.7	6.1	8.5	7.3	6.5	6.5	6.5
30	7.3	7.7	7.4	13	14	13	6.5	6.5	6.5	6.7	6.7	6.7	6.8	8.4	7.7	6.5	6.5	6.5
31	7.3	7.7	7.4	13	14	13	6.5	6.5	6.5	6.7	6.7	6.7	6.7	8.2	7.6	6.5	6.5	6.5
Monthly Min/Max/Avg	7.3	8.9	7.9	12	15	13	6.5	6.5	6.5	6.6	6.9	6.7	5.6	16	7.0	6.5	6.5	6.5

NOTES: ' -- ' indicates plant offline

1.2.17 Liquid Alum Chemical Consumption

January 2025

Day	Dosage (mg/L)			Consumption (kg)			
	Rossdale		E.L. Smith	Rossdale			E.L. Smith
	Plant 1	Plant 2		Plant 1	Plant 2	Plant Total	
1	5.02	5.03	5.06	922	695	1,617	2,657
2	5.01	--	5.06	1,359	--	1,359	2,818
3	4.99	--	5.06	1,375	--	1,375	2,864
4	5.00	--	5.06	1,392	--	1,392	2,923
5	5.00	--	5.06	1,350	--	1,350	2,925
6	5.00	--	5.06	1,185	--	1,185	3,067
7	5.00	--	5.05	1,185	--	1,185	3,196
8	4.99	--	5.05	1,184	--	1,184	3,339
9	5.00	--	5.05	1,186	--	1,186	3,315
10	5.00	--	5.05	1,186	--	1,186	3,340
11	4.99	--	5.05	1,184	--	1,184	3,342
12	5.00	--	5.05	1,185	--	1,185	3,341
13	4.99	--	5.06	1,184	--	1,184	2,952
14	4.99	--	5.06	1,184	--	1,184	3,038
15	5.01	--	5.06	1,183	--	1,183	2,922
16	5.00	--	5.06	1,186	--	1,186	3,059
17	4.99	--	5.05	1,182	--	1,182	3,260
18	4.98	--	5.05	1,182	--	1,182	3,341
19	5.00	--	5.06	1,185	--	1,185	3,177
20	4.99	--	5.05	1,261	--	1,261	3,146
21	4.97	--	5.06	1,264	--	1,264	3,179
22	5.02	--	5.05	1,190	--	1,190	3,170
23	4.98	--	5.06	1,182	--	1,182	2,979
24	5.00	--	5.05	1,185	--	1,185	3,343
25	5.01	--	5.05	1,188	--	1,188	3,343
26	4.99	--	5.05	1,184	--	1,184	3,261
27	5.00	--	5.06	1,185	--	1,185	3,136
28	5.00	--	5.06	1,186	--	1,186	3,132
29	5.02	--	5.06	1,192	--	1,192	3,128
30	4.99	--	5.06	1,183	--	1,183	3,132
31	4.99	--	5.05	1,184	--	1,184	3,221
Monthly Total				37,363	695	38,059	97,046
Monthly Avg	5.00	5.03	5.05	1,205	695	1,228	3,131

NOTES : ' -- ' indicates system offline

- Liquid alum consumption (kg) at 48.5% by weight (solution delivered to sites at a concentration of 48.5%)
- NSF limit for liquid alum is **194 mg/L**

1.2.18 Primary Polymer (Magnafloc LT 27AG) Chemical Consumption

January 2025

Day	Dosage (mg/L)			Consumption (kg)			
	Rossdale		E.L. Smith	Rossdale			E.L. Smith
	Plant 1	Plant 2		Plant 1	Plant 2	Plant Total	
1	0.10	0.10	--	9	7	16	--
2	0.10	--	--	13	--	13	--
3	0.10	--	--	13	--	13	--
4	0.10	--	--	14	--	14	--
5	0.10	--	--	13	--	13	--
6	0.10	--	--	12	--	12	--
7	0.10	--	--	12	--	12	--
8	0.10	--	--	12	--	12	--
9	0.10	--	--	12	--	12	--
10	0.10	--	--	12	--	12	--
11	0.10	--	--	12	--	12	--
12	0.10	--	--	12	--	12	--
13	0.10	--	--	12	--	12	--
14	0.10	--	--	12	--	12	--
15	0.10	--	--	11	--	11	--
16	0.10	--	--	12	--	12	--
17	0.10	--	--	12	--	12	--
18	0.10	--	--	12	--	12	--
19	0.10	--	--	12	--	12	--
20	0.10	--	--	12	--	12	--
21	0.10	--	--	12	--	12	--
22	0.10	--	--	12	--	12	--
23	0.10	--	--	12	--	12	--
24	0.10	--	--	12	--	12	--
25	0.10	--	--	12	--	12	--
26	0.10	--	--	12	--	12	--
27	0.10	--	--	12	--	12	--
28	0.10	--	--	12	--	12	--
29	0.10	--	--	12	--	12	--
30	0.10	--	--	12	--	12	--
31	0.10	--	--	12	--	12	--
Monthly Total				363	7	369	--
Monthly Avg	0.10	0.10	--	12	7	12	--

NOTES: ' -- ' indicates system offline or primary polymer not being used
- Primary polymer consumption (kg) at 100% by weight mixed at the sites to required solution
- NSF limit for Magnafloc LT 27AG is **1.00 mg/L**

1.2.19 Carbon Chemical Consumption

January 2025

Day	Dosage (mg/L)			Consumption (kg)			
	Rossdale		E.L. Smith	Rossdale			E.L. Smith
	Plant 1	Plant 2		Plant 1	Plant 2	Plant Total	
1	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--
Monthly Total				--	--	--	--
Monthly Avg	--	--	--	--	--	--	--

NOTES: ' -- ' indicates carbon not being used
- Carbon consumption (kg) at 100% by weight (mixed at the sites)
- NSF limit for Carbon is **250 mg/L**

1.2.20 Sodium Hypochlorite Chemical Consumption

January 2025

Day	Rossdale					E.L. Smith	
	Dosage (mg/L)		Consumption (kg)			Dosage (mg/L)	Consumption (kg)
	Plant 1	Plant 2	Plant 1	Plant 2	Plant Total		
1	2.59	2.50	28,809	20,963	52,554	2.85	95,595
2	2.51	--	41,199	--	43,854	2.84	100,845
3	2.45	--	40,847	--	43,643	2.91	105,240
4	2.51	--	42,388	--	46,387	2.94	108,441
5	2.67	--	43,743	--	46,647	2.91	107,513
6	2.60	--	37,332	--	39,384	2.91	112,463
7	2.70	--	38,805	--	41,170	2.95	119,276
8	2.65	--	38,097	--	39,971	3.02	127,568
9	2.69	--	38,684	--	41,861	3.06	128,169
10	2.70	--	38,835	--	41,833	2.98	125,926
11	2.77	--	39,859	--	42,833	2.96	125,037
12	2.82	--	40,479	--	42,949	3.02	127,487
13	2.69	--	38,624	--	40,750	2.97	110,565
14	2.75	--	39,594	--	42,415	2.90	111,199
15	2.67	--	38,215	--	40,698	2.96	109,216
16	2.65	--	38,095	--	41,088	3.01	116,059
17	2.73	--	39,211	--	41,779	2.94	121,156
18	2.73	--	39,220	--	41,267	2.92	123,337
19	2.78	--	39,891	--	41,987	2.96	118,704
20	2.74	--	42,044	--	44,343	2.99	118,767
21	2.63	--	40,600	--	43,378	2.98	119,512
22	2.70	--	38,749	--	40,986	3.00	120,018
23	2.65	--	38,043	--	40,160	3.06	114,937
24	2.73	--	39,281	--	42,104	3.11	131,346
25	2.72	--	39,072	--	41,646	3.13	132,122
26	2.74	--	39,400	--	41,941	3.09	127,400
27	2.70	--	38,811	--	40,919	3.07	121,531
28	2.68	--	38,521	--	40,243	3.08	121,621
29	2.71	--	38,985	--	41,201	3.04	119,813
30	2.80	--	40,211	--	42,403	3.04	119,984
31	2.73	--	39,283	--	41,470	3.02	122,783
Monthly Total			1,214,926	20,963	1,313,864		3,663,628
Monthly Avg	2.68	2.50	39,191	20,963	42,383	2.99	118,182

NOTES: ' -- ' indicates system offline

- Sodium hypochlorite consumption (kg) at 0.8% by weight (sodium hypochlorite generated onsite at a concentration of 0.8%)
- Plant Total Consumption is the combined addition of Plant 1, Plant 2 and Post Filter Trim.
- NSF limit for Sodium Hypochlorite generated onsite is **10 mg/L**

1.2.21 Filter Polymer Chemical Consumption

January 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.29	0.25	44	64
2	0.29	0.25	37	67
3	0.28	0.25	36	69
4	0.28	0.25	37	70
5	0.29	0.25	37	70
6	0.29	0.23	33	68
7	0.29	0.22	32	67
8	0.29	0.25	32	80
9	0.29	0.25	32	80
10	0.29	0.25	33	80
11	0.28	0.25	31	80
12	0.26	0.25	29	80
13	0.25	0.25	28	70
14	0.24	0.25	27	73
15	0.24	0.25	27	70
16	0.24	0.25	26	73
17	0.25	0.25	28	78
18	0.29	0.25	32	80
19	0.29	0.25	32	76
20	0.29	0.25	35	75
21	0.29	0.25	35	77
22	0.29	0.30	32	91
23	0.29	0.28	33	80
24	0.29	0.28	33	88
25	0.29	0.30	32	96
26	0.29	0.30	33	94
27	0.29	0.30	32	90
28	0.29	0.27	33	81
29	0.29	0.28	33	85
30	0.29	0.30	32	90
31	0.29	0.30	32	93
Monthly Total			1,007	2,436
Monthly Avg	0.28	0.26	32	79

NOTES: ' -- ' indicates system offline

- Filter polymer consumption (kg) at 100% by weight mixed at the sites to required solution
- NSF limit for Magnafloc LT 7981 is **20 mg/L**
- NSF limit for Magnafloc LT 7995 is **25 mg/L**

1.2.22 Aqua Ammonia Chemical Consumption

January 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.59	--	469	--
2	0.59	--	392	--
3	0.59	--	407	--
4	0.59	--	408	--
5	0.59	--	393	--
6	0.59	--	348	--
7	0.59	--	344	--
8	0.59	--	345	--
9	0.59	--	346	--
10	0.59	--	349	--
11	0.59	--	347	--
12	0.59	--	344	--
13	0.59	--	347	--
14	0.59	--	350	--
15	0.59	--	345	--
16	0.59	--	344	--
17	0.59	--	347	--
18	0.59	--	347	--
19	0.59	--	344	--
20	0.59	--	370	--
21	0.59	--	371	--
22	0.59	--	345	--
23	0.59	--	348	--
24	0.59	--	348	--
25	0.59	--	347	--
26	0.59	--	348	--
27	0.59	--	345	--
28	0.59	--	350	--
29	0.59	--	349	--
30	0.59	--	342	--
31	0.59	--	345	--
Monthly Total			11,126	--
Monthly Avg	0.59	--	359	--

NOTES: ' -- ' indicates system offline

- Aqua ammonia consumption (kg) at 100% by weight (solution delivered to sites at a concentration of 19.0%)
- NSF limit for Aqua Ammonia is **2.85 mg/L**

1.2.22-1 LAS Ammonia Chemical Consumption

January 2025

Day	Dosage (mg/L)	Consumption (kg)
	E.L. Smith	E.L. Smith
1	0.56	1,311
2	0.56	1,405
3	0.56	1,418
4	0.56	1,451
5	0.56	1,451
6	0.56	1,515
7	0.56	1,572
8	0.56	1,628
9	0.56	1,616
10	0.56	1,632
11	0.56	1,641
12	0.56	1,636
13	0.56	1,421
14	0.56	1,495
15	0.56	1,427
16	0.56	1,486
17	0.56	1,590
18	0.56	1,631
19	0.56	1,542
20	0.56	1,540
21	0.56	1,546
22	0.56	1,558
23	0.56	1,368
24	0.55	1,609
25	0.55	1,607
26	0.55	1,556
27	0.55	1,507
28	0.55	1,474
29	0.54	1,466
30	0.54	1,464
31	0.54	1,506
Monthly Total		47,069
Monthly Avg	0.56	1,518

NOTES: ' -- ' indicates system offline
- LAS ammonia consumption (kg) at 100% by weight (solution delivered to sites at a concentration of **41.0%**)
- NSF limit for LAS Ammonia is **16.4 mg/L**

1.2.23 Caustic Soda Chemical Consumption

January 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	--	--	--	--
2	--	--	--	--
3	--	--	--	--
4	--	--	--	--
5	--	--	--	--
6	--	--	--	--
7	--	--	--	--
8	--	--	--	--
9	--	--	--	--
10	--	--	--	--
11	--	--	--	--
12	--	--	--	--
13	--	--	--	--
14	--	--	--	--
15	--	--	--	--
16	--	--	--	--
17	--	--	--	--
18	--	--	--	--
19	--	--	--	--
20	--	--	--	--
21	--	--	--	--
22	--	--	--	--
23	--	--	--	--
24	--	--	--	--
25	--	--	--	--
26	--	--	--	--
27	--	--	--	--
28	--	--	--	--
29	--	--	--	--
30	--	--	--	--
31	--	--	--	--
Monthly Total			--	--
Monthly Avg	--	--	--	--

NOTES: ' -- ' indicates system offline
- Caustic soda consumption (kg) at 100% by weight (solution delivered to sites at a concentration of 50.0%)
- NSF limit for Caustic Soda is **50 mg/L**

1.2.24 Fluoride Chemical Consumption
January 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.63	0.57	436	599
2	0.63	0.57	365	642
3	0.63	0.57	379	647
4	0.63	0.57	380	663
5	0.63	0.57	366	665
6	0.63	0.57	324	693
7	0.63	0.57	320	718
8	0.63	0.56	321	735
9	0.63	0.56	322	725
10	0.63	0.56	324	724
11	0.63	0.55	323	723
12	0.63	0.55	320	723
13	0.63	0.56	323	637
14	0.63	0.56	326	673
15	0.63	0.56	321	644
16	0.63	0.56	320	670
17	0.63	0.56	323	714
18	0.63	0.56	323	734
19	0.63	0.56	320	694
20	0.63	0.56	344	692
21	0.63	0.56	346	694
22	0.63	0.56	321	699
23	0.63	0.56	324	620
24	0.63	0.56	324	735
25	0.63	0.56	323	734
26	0.63	0.56	324	712
27	0.63	0.56	321	689
28	0.63	0.56	325	681
29	0.63	0.56	325	682
30	0.63	0.56	318	682
31	0.63	0.56	321	701
Monthly Total			10,354	21,344
Monthly Avg	0.63	0.56	334	689

NOTES: ' -- ' indicates system offline
- Fluoride consumption (kg) at 100% by weight (solution delivered to sites at a concentration of 21.8%)
- NSF limit for Fluoride is **1.308 mg/L**

1.2.25 Sodium Bisulfite (SBS) Chemical Consumption

January 2025

Day	Dosage (mg/L)		Consumption (kg)		De-chlorinated Waste Stream to Outfall (ML)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	26.4	19.1	774	1,722	11	36
2	32.6	16.7	1,031	1,588	12	36
3	32.0	15.6	646	1,542	7.8	38
4	30.2	14.2	773	1,453	9.9	39
5	32.3	13.4	901	1,355	11	38
6	40.5	12.8	774	1,353	7.4	40
7	26.5	11.2	647	1,324	9.4	45
8	34.7	15.2	773	1,953	8.6	50
9	30.5	18.5	642	2,661	8.1	55
10	26.1	17.6	514	2,334	7.6	50
11	35.0	17.1	646	2,205	7.1	49
12	31.4	15.0	643	1,874	7.9	47
13	32.7	18.5	774	2,246	9.1	52
14	16.7	13.6	515	1,500	12	42
15	23.2	12.1	516	1,353	8.6	44
16	32.8	11.0	774	1,285	9.1	45
17	31.6	11.6	775	1,412	9.4	48
18	29.4	11.0	648	1,432	8.5	50
19	28.9	10.3	775	1,307	10	48
20	29.2	13.6	1,074	1,578	14	44
21	31.3	17.9	861	2,376	11	51
22	32.6	18.2	646	2,153	7.6	45
23	29.0	16.0	775	2,723	10	65
24	24.7	14.8	514	1,817	8.0	47
25	29.0	13.6	640	1,714	8.5	48
26	57.7	11.6	905	1,469	6.1	48
27	35.9	12.3	900	1,462	9.6	45
28	32.8	10.6	774	1,342	9.1	48
29	29.5	10.6	647	1,318	8.5	47
30	22.3	14.3	516	1,776	8.9	47
31	33.2	18.2	774	2,324	9.0	50
Monthly Total			22,566	53,952	285	1,436
Monthly Avg	31.0	14.4	728	1,740	9.2	46

NOTES: ' -- ' indicates plant offline

- Sodium bisulfite consumption (kg) at 38% by weight (solution delivered to sites at a concentration of 38.0%)

1.2.26 Rossdale Waste Stream Data

January 2025

		Clarifier Blowdown	Clarifier Washdown *	Backwash Water	Filter To Waste	Bypass	Total	De-Chlorin'd Waste Stream 3			De-Chlorin'd Waste Stream 7		
Volume (ML)		73	20	122	25	5.4	245	60.14			224.90		
Solids (kg)	TSS	14,805	229	24,746			39,780						
	Aluminium	1,661	16	8,566			10,243						
# of Bypasses						1		Min	Max	Avg	Min	Max	Avg
pH								6.5	7.6	7.4	6.6	7.9	7.7
Total Chlorine (mg/L)								0.00	0.00	0.00	0.00	0.00	0.00
Sulfite (mg/L)								1.84	20.0	7.95	1.59	20.0	14.0

NOTES: * Estimate value for the waste stream volume and calculated value for the waste stream solids
- Clarifier washdown volume(s) estimated for clarifier cleaning
- LLP flush, HLP cooling are not applicable to the Rossdale WTP

1.2.27 E.L. Smith Waste Stream Data

January 2025

		Clarifier Blowdown	Clarifier Washdown *	Backwash Water	Filter To Waste	Bypass	LLP Flush	HLP Cooling	Total	De-chlorinated Waste flow to		
Volume (ML)		688	0.0	351	181	45	1.2	31	1,298	1,436		
Solids (kg)	TSS	63,634	0	48,143					111,777			
	Aluminium	4,235	0	16,665					20,900			
# of Bypasses						3				Min	Max	Avg
pH										7.41	7.86	7.74
Total Chlorine (mg/L)										0.00	0.00	0.00
Sulphite (mg/L)										0.45	20.0	6.45

NOTES: * Estimate value for the waste stream volume and calculated value for the waste stream solids
- Clarifier washdown volume(s) estimated for clarifer cleaning
- Estimated chlorinated waste stream to outfall for dechlorination

1.2.28 Demand/Production Statistics

January 2025

Month	ROSSDALE ZONE			E.L.SMITH ZONE			SYSTEM TOTAL			RESERVOIR PUMPAGE		
	Monthly Prod'n (ML)	Max Daily Prod'n (ML)	Peak Daily Demand (ML)	Monthly Prod'n (ML)	Max Daily Prod'n (ML)	Peak Daily Demand (ML)	Monthly Prod'n (ML)	Max Daily Prod'n (ML)	Peak Daily Demand (ML)	Rossdale Zone (ML)	E.L.Smith Zone (ML)	Total (ML)
JANUARY	3,394	145	135	8,010	280	291	11,403	386	390	1,142	2,586	3,728

2025 - HIGH 5-DAY DEMAND

	PLANTS PROD (ML/d)	RES. GAIN / LOSS (%)	RES. GAIN / LOSS (ML)	TOTAL DEMAND (ML)
06-Jan-2025	364	-4.2	-26.3	390
07-Jan-2025	371	-3.0	-18.8	390
08-Jan-2025	386	1.4	8.9	378
09-Jan-2025	374	1.8	11.4	363
10-Jan-2025	382	1.9	11.9	370
			AVERAGE:	378

Year to Date Data	2025	2024	% CHANGE
TOTAL PRODUCTION TO DATE (ML)	11,403	10,989	3.8
AVG. DAILY DEMAND TO DATE (ML)	367	358	2.4
PEAK DAILY DEMAND TO DATE (ML)	390	379	2.9
PEAK HOURLY DEMAND TO DATE (ML)	519	494	5.1
HIGH 5-DAY AVERAGE TO DATE (ML)	378	369	2.3

Peak daily demand of 390 ML/d occurred on January 06, 2025

Peak hourly demand of 519 ML/d occurred on January 14, 2025 at 07:00

1.2.29 Reservoir Chlorine Residual (mg/L) - Part 1

January 2025

Reservoir	Papaschase 1			Ormsby			Clareview Discharge			Millwoods Discharge			Kaskitayo			Discovery Park		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	1.66	1.91	1.67	1.66	1.75	1.72	1.66	1.73	1.69	1.90	1.98	1.92	1.80	1.96	1.92	1.18	1.36	1.28
2	1.63	1.88	1.65	1.70	1.77	1.73	1.63	1.75	1.69	1.87	1.97	1.92	1.88	1.92	1.90	1.10	1.76	1.44
3	1.63	1.84	1.66	1.70	1.75	1.73	1.64	1.79	1.69	1.89	1.96	1.92	1.89	1.91	1.90	1.59	1.75	1.67
4	1.65	1.87	1.67	1.66	1.77	1.72	1.52	1.73	1.69	1.88	1.95	1.92	1.86	1.93	1.91	1.53	1.74	1.64
5	1.66	1.87	1.68	1.68	1.79	1.74	1.68	1.70	1.69	1.89	1.99	1.91	1.90	1.95	1.91	1.55	1.73	1.62
6	1.65	1.92	1.67	1.69	1.76	1.74	1.63	1.74	1.69	1.86	1.98	1.93	1.86	2.04	1.92	1.48	1.70	1.60
7	1.63	1.86	1.68	1.68	1.78	1.73	1.52	1.68	1.62	1.90	1.98	1.93	1.92	1.96	1.94	1.53	1.76	1.66
8	1.63	1.82	1.66	1.66	1.80	1.75	1.58	1.70	1.61	1.90	1.97	1.93	1.90	1.96	1.93	1.53	1.78	1.71
9	1.64	1.83	1.65	1.69	1.76	1.74	1.58	1.64	1.61	1.91	1.98	1.91	1.89	1.95	1.93	1.57	1.78	1.70
10	1.62	1.74	1.65	1.69	1.86	1.76	1.54	1.68	1.64	1.86	1.99	1.92	1.84	1.98	1.93	1.54	1.76	1.68
11	1.65	1.87	1.66	1.67	1.84	1.77	1.55	1.71	1.67	1.90	1.99	1.93	1.88	1.95	1.92	1.58	1.72	1.65
12	1.64	1.83	1.66	1.70	1.83	1.75	1.64	1.70	1.68	1.91	1.97	1.93	1.90	1.94	1.93	1.54	1.67	1.61
13	1.61	1.88	1.66	1.67	1.80	1.74	1.59	1.73	1.68	1.89	2.01	1.93	1.80	2.00	1.93	1.44	1.64	1.56
14	1.59	1.83	1.64	1.68	1.78	1.73	1.49	1.76	1.68	1.90	1.97	1.92	1.87	1.94	1.91	1.39	1.58	1.50
15	1.58	1.75	1.62	1.68	1.79	1.72	1.60	1.71	1.67	1.90	1.97	1.92	1.88	1.92	1.90	1.35	1.55	1.47
16	1.60	1.86	1.62	1.64	1.75	1.72	1.62	1.73	1.68	1.87	2.00	1.92	1.82	1.95	1.89	1.37	1.62	1.51
17	1.62	1.88	1.63	1.67	1.75	1.72	1.44	1.72	1.68	1.90	1.98	1.92	1.84	1.91	1.89	1.39	1.63	1.53
18	1.63	1.85	1.65	1.66	1.78	1.72	1.65	1.73	1.69	1.90	1.99	1.93	1.86	1.91	1.88	1.41	1.59	1.49
19	1.60	1.81	1.61	1.65	1.76	1.72	1.66	1.72	1.69	1.87	1.96	1.92	1.86	1.88	1.87	1.37	1.51	1.44
20	1.57	1.77	1.60	1.66	1.80	1.71	1.60	1.74	1.69	1.91	1.96	1.93	1.84	1.91	1.87	1.33	1.47	1.41
21	--	--	--	1.67	1.75	1.72	1.44	1.74	1.68	1.93	1.99	1.95	1.80	1.90	1.87	1.30	1.55	1.46
22	1.62	1.80	1.63	1.64	1.78	1.71	1.54	1.72	1.68	1.90	1.97	1.93	1.83	1.88	1.87	1.36	1.62	1.52
23	1.55	1.88	1.62	1.69	1.74	1.71	1.55	1.75	1.68	1.89	1.95	1.92	1.82	1.90	1.86	1.41	1.61	1.51
24	1.60	1.86	1.63	1.64	1.75	1.69	1.56	1.73	1.68	1.89	1.94	1.91	1.83	2.06	1.90	1.37	1.55	1.45
25	1.63	1.86	1.65	1.66	1.76	1.69	1.64	1.72	1.69	1.87	1.96	1.91	1.86	1.90	1.88	1.31	1.44	1.37
26	1.55	1.85	1.66	1.59	1.76	1.69	1.60	1.73	1.69	1.87	1.96	1.89	1.80	1.88	1.86	1.27	1.40	1.34
27	1.64	1.80	1.66	1.61	1.74	1.69	1.60	1.73	1.68	1.88	1.94	1.90	1.83	1.86	1.84	1.22	1.35	1.28
28	1.62	1.62	1.62	1.65	1.78	1.70	1.62	1.71	1.67	1.88	1.94	1.90	1.81	1.87	1.83	1.14	1.42	1.30
29	1.60	1.62	1.61	1.64	1.76	1.69	1.61	1.71	1.67	1.88	1.95	1.90	1.74	1.87	1.82	1.29	1.41	1.36
30	1.57	1.87	1.62	1.66	1.74	1.69	1.63	1.68	1.67	1.89	1.94	1.91	1.80	1.84	1.82	1.26	1.38	1.32
31	1.56	1.87	1.60	1.58	1.76	1.69	1.59	1.85	1.72	1.87	1.95	1.90	1.77	1.85	1.82	1.23	1.48	1.33
Monthly Min/Max/Avg	1.55	1.92	1.64	1.58	1.86	1.72	1.44	1.85	1.67	1.86	2.01	1.92	1.74	2.06	1.89	1.10	1.78	1.50

NOTES: '--' Indication Analyzer Offline

1.2.30 Reservoir Chlorine Residual (mg/L) - Part 2

January 2025

Reservoir	Rosslyn 1			Londonderry			N. Jasper Place			Rosslyn 2			Thorncliffe			Blackmud Creek		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1				1.71	1.81	1.78	1.47	1.80	1.50				1.74	1.94	1.75	1.72	1.78	1.75
2				1.68	1.83	1.74	1.47	1.87	1.51				1.71	1.94	1.75	1.70	1.77	1.75
3				1.55	1.80	1.69	1.46	1.86	1.51	1.60	1.73	1.52	1.70	1.95	1.72	1.70	1.77	1.74
4				1.67	1.79	1.73	1.44	1.88	1.50	1.63	1.66	1.65				1.70	1.88	1.75
5	--	--	--	1.64	1.80	1.73	1.52	1.86	1.55	1.57	1.66	1.63	1.68	1.97	1.72	1.61	1.88	1.75
6	--	--	--	1.60	1.80	1.73	1.51	1.91	1.56	1.57	1.63	1.62	1.67	1.97	1.70	1.71	1.79	1.75
7	1.66	1.66	1.66	1.68	1.83	1.76	1.50	1.88	1.53	1.56	1.64	1.60	1.67	1.94	1.70	1.70	1.79	1.75
8	--	--	--	1.66	1.83	1.74	--	--	--	1.51	1.60	1.58	1.67	1.97	1.68	1.66	1.87	1.75
9	1.66	1.66	1.66	1.65	1.77	1.73	1.48	1.90	1.51	1.51	1.58	1.58	1.69	1.97	1.70	1.62	2.13	1.83
10	--	--	--	1.58	1.77	1.70	1.47	1.90	1.54	1.52	1.59	1.57	1.66	1.98	1.69	2.03	2.13	2.08
11	--	--	--	1.61	1.78	1.70	--	--	--	1.52	1.59	1.58	--	--	--	2.00	2.09	2.04
12	--	--	--	1.67	1.79	1.71	1.53	1.91	1.58	1.49	1.61	1.59	1.70	1.97	1.72	1.99	2.07	2.04
13	1.69	1.72	1.70	1.65	1.79	1.71	1.57	1.88	1.59	1.52	1.63	1.59	1.59	1.96	1.73	1.99	2.06	2.04
14	1.69	1.69	1.69	1.58	1.76	1.70	1.56	1.87	1.59	1.50	1.61	1.57	1.70	1.94	1.72	1.98	2.05	2.02
15	--	--	--	1.54	1.76	1.68	1.52	1.87	1.56	1.50	1.59	1.57	1.69	1.93	1.71	1.97	2.03	2.01
16	--	--	--	1.61	1.77	1.70	1.54	1.90	1.57	1.49	1.59	1.58	1.66	1.96	1.69	1.97	2.02	2.00
17				1.65	1.77	1.71	1.54	1.88	1.57	1.52	1.60	1.59	1.66	1.95	1.68	1.94	2.03	1.99
18				1.64	1.80	1.71				1.52	1.60	1.59				1.92	1.99	1.96
19				1.63	1.74	1.69	1.52	1.88	1.57	1.50	1.60	1.59				1.92	1.98	1.95
20	1.66	1.69	1.69	1.61	1.77	1.70	1.50	1.84	1.54	1.54	1.60	1.58	1.63	1.99	1.65	1.76	1.99	1.87
21				1.58	1.78	1.69	1.55	1.87	1.57	1.47	1.63	1.59				1.74	1.82	1.79
22	1.65	1.69	1.68	1.59	1.75	1.71				1.49	1.62	1.58				1.73	1.80	1.77
23				1.56	1.84	1.70	1.54	1.87	1.57	1.56	1.62	1.60	1.67	1.94	1.69	1.72	1.77	1.75
24				1.61	1.80	1.71				1.51	1.63	1.60				1.70	1.76	1.74
25	--	--	--	1.59	1.79	1.71	--	--	--	1.50	1.63	1.61	1.64	1.93	1.65	1.70	1.75	1.73
26	--	--	--	1.56	1.79	1.72	1.49	1.87	1.52	1.58	1.64	1.62	1.65	1.93	1.66	1.70	1.75	1.73
27	--	--	--	1.64	1.79	1.72	1.48	1.86	1.51	1.56	1.63	1.61	1.64	1.92	1.65	1.68	1.74	1.72
28	1.68	1.68	1.68	1.60	1.81	1.70	--	--	--	1.54	1.61	1.60	--	--	--	1.67	1.73	1.71
29	--	--	--	1.59	1.76	1.69	1.48	1.85	1.52	1.50	1.63	1.58	1.62	1.93	1.65	1.67	1.73	1.70
30	--	--	--	1.54	1.80	1.69	1.52	1.86	1.54	1.56	1.69	1.61	1.63	1.92	1.65	1.67	1.72	1.70
31	--	--	--	1.67	1.87	1.76	1.52	1.84	1.55	1.58	1.63	1.61	1.53	1.94	1.65	1.67	1.72	1.70
Monthly Min/Max/Avg	1.65	1.72	1.68	1.54	1.87	1.71	1.44	1.91	1.54	1.47	1.73	1.59	1.53	1.99	1.69	1.61	2.13	1.83

NOTES: '--' Indication Analyzer Offline

1.2.31 Phosphoric Acid Chemical Consumption

January 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.90	0.90	571	842
2	0.90	0.90	456	903
3	0.90	0.90	446	952
4	0.90	0.90	480	864
5	0.90	0.90	480	927
6	0.90	0.90	381	1,002
7	0.90	0.90	440	1,053
8	0.90	0.90	383	1,047
9	0.90	0.83	399	879
10	0.90	0.90	415	1,009
11	0.90	0.90	394	1,086
12	0.90	0.90	384	1,067
13	0.90	0.90	424	887
14	0.90	0.90	390	951
15	0.90	0.90	371	906
16	0.90	0.90	413	1,006
17	0.90	0.90	398	1,032
18	0.90	0.90	404	1,013
19	0.90	0.90	312	1,019
20	0.90	0.90	390	913
21	0.90	0.90	438	1,049
22	0.90	0.90	421	1,023
23	0.90	0.90	421	828
24	0.90	0.90	401	1,044
25	0.90	0.90	365	1,058
26	0.90	0.90	455	1,006
27	0.90	0.90	408	955
28	0.90	0.90	408	1,047
29	0.90	0.90	390	879
30	0.90	0.90	375	999
31	0.90	0.90	392	960
Monthly Total			12,807	30,207
Monthly Avg	0.90	0.90	413	974

NOTES: ' -- ' indicates plant offline
- Phosphoric acid consumption (kg) at 100% by weight (solution delivered to sites at a concentration of 75%)
- NSF limit for Phosphoric acid (75%) is 13 mg/l

1.2.32 Summary of Mainbreaks

January 2025

Date and Time Reported	Location of Mainbreak	Repaired (Time)	Size	Type**
2025-01-02 13:02	11616-26 AVENUE NW	2025-01-03 11:02	200	AC
2025-01-03 2:40	15507-76 AVENUE NW	2025-01-03 21:21	300	CI
2025-01-03 2:40	15507-76 AVENUE NW	2025-01-03 21:21	300	CI
2025-01-04 12:50	15503-76 AVENUE NW	2025-01-04 15:53	300	CI
2025-01-09 2:00	11024-160 STREET NW	2025-01-09 17:25	150	CI
2025-01-10 12:16	9823-75 STREET NW	2025-01-10 21:00	200	CI
2025-01-11 8:32	6311-105 STREET NW	2025-01-11 20:40	150	CI
2025-01-13 6:42	13035-133 STREET NW	2025-01-13 18:10	250	CI
2025-01-13 9:27	13541G-70 STREET NW	2025-01-13 21:03	150	CI
2025-01-13 18:19	13035-133 STREET NW	2025-01-13 19:05	250	CI
2025-01-14 7:16	11104-109 STREET NW	2025-01-16 11:00	300	CI
2025-01-14 7:16	10904-111 AVENUE NW	2025-01-16 11:00	610	Steel
2025-01-14 12:06	13541G-70 STREET NW	2025-01-14 17:10	150	CI
2025-01-16 14:53	9642-100 STREET NW	2025-01-18 10:35	150	CI
2025-01-18 10:07	13819-82 STREET NW	2025-01-19 13:30	150	CI
2025-01-19 23:21	14603-95 AVENUE NW	2025-01-20 17:34	150	CI
2025-01-20 0:55	8603-54 STREET NW	2025-01-20 18:50	150	CI
2025-01-21 11:08	10404-112 AVENUE NW	2025-01-21 17:15	200	CI
2025-01-21 20:08	6155-99 STREET NW	2025-01-22 18:31	150	CI
2025-01-22 13:32	13205-97 STREET NW	2025-01-29 0:00	508	Steel
2025-01-23 10:48	6715-127 AVENUE NW	2025-01-23 21:10	150	CI
2025-01-23 12:47	10404-112 AVENUE NW	2025-01-25 15:30	200	CI
2025-01-23 21:12	6715-127 AVENUE NW	2025-01-24 9:00	150	CI
2025-01-26 20:46	8720-72 STREET NW	2025-01-27 16:00	200	CI
2025-01-27 17:13	8724-72 STREET NW	2025-01-27 22:49	200	CI
2025-01-28 13:05	8724-72 STREET NW	2025-01-28 18:45	200	CI

Month	Total Breaks By Month
Jan-25	26
Feb-25	
Mar-25	
Apr-25	
May-25	
Jun-25	
Jul-25	
Aug-25	
Sep-25	
Oct-25	
Nov-25	
Dec-25	
YTD 2025	**26**

**Pipe Type Explanation	
CI	Cast Iron Pipe
COP	Copper Pipe
CCP	Concrete Cylinder Pipe
PVC	Poly Vinyl Chloride Pipe
AC	Asbestos Cement Pipe
HPLCP	Hyperscon Cylinder Prestressed Lined Concrete Cylinder Pipe
FRP	Fibre Glass Pipe
STL	Steel Pipe
HDP	High Density Polyethylene

2.1.1 SUMMARY OF PARAMETERS FOR EDMONTON DRINKING WATER

Water Treatment Plants

January 2025

Parameter (Units)	#	Mean	Range	YTD #	YTD Mean	YTD Range
Alkalinity total (mg CaCO3/L)	62	119.4	110.0 - 127.0	62	119.4	110.0 - 127.0
Aluminum (mg/L)	2	0.079	0.076 - 0.082	2	0.079	0.076 - 0.082
Arsenic (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Bromate Dissolved (mg/L)	8	0.005	<0.003 - 0.005	8	<0.005	<0.003 - <0.005
Bromodichloromethane (µg/L)	62	0.7	<0.5 - 1.4	62	0.7	<0.5 - 1.4
Cadmium (mg/L)	2	<0.00002	<0.00002	2	<0.00002	<0.00002
Calcium Hardness (mg/L CaCO3)	60	115.8	105.0 - 124.0	60	115.8	105.0 - 124.0
Chlorate dissolved (mg/L)	8	0.14	0.09 - 0.24	8	0.14	<0.1 - 0.24
Chloride Dissolved (mg/L)	8	5.19	4.59 - 5.82	8	5.19	4.59 - 5.82
Chlorine total (mg/L)	62	2.09	1.92 - 2.18	62	2.09	1.92 - 2.18
Chlorite Dissolved (mg/L)	8	0.054	<0.005 - 0.200	8	<0.2	<0.005 - <0.2
Chloroform (µg/L)	62	8.4	4.7 - 19.1	62	8.4	4.7 - 19.1
Chromium (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Colour (TCU)	62	0.8	<0.5 - 1.7	62	0.8	<0.5 - 1.7
Conductivity (µS/cm)	8	371.9	362.0 - 380.0	8	371.9	362.0 - 380.0
Copper (mg/L)	2	<0.002	<0.002	2	<0.002	<0.002
Cryptosporidium (oocysts/100L)	2	<0.1	<0.09	2	<0.1	<0.09 - <0.1
Fluoride (mg/L)	62	0.67	0.61 - 0.72	62	0.67	0.61 - 0.72
Giardia (cysts/100L)	2	<0.1	<0.09	2	<0.1	<0.09 - <0.1
Haloacetic acids total (HAA5) (µg/L)	2	10.58	9.56 - 11.60	2	10.58	9.56 - 11.60
Iron (mg/L)	2	<0.005	<0.005	2	<0.005	<0.005
Manganese (mg/L)	2	<0.002	<0.002	2	<0.002	<0.002
Mercury (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Nitrate (as N) dissolved (mg/L)	6	0.09	0.09	6	0.09	0.09
Nitrite (as N) dissolved (mg/L)	6	0.01	0.01	6	0.01	0.01
Nitrosodimethylamine, N- [NDMA] (µg/L)	2	0.00170	<0.0016 - 0.00180	2	<0.0018	<0.0016 - <0.0018
pH	62	8	8	62	8	8
Potassium (mg/L)	2	0.6	0.6	2	0.6	0.6
Sodium (mg/L)	2	6.6	6.3 - 6.8	2	6.6	6.3 - 6.8
Sulphate Dissolved (mg/L)	8	61.2	59.3 - 63.9	8	61.2	59.3 - 63.9
Total Dissolved Solids (mg/L)	2	205.50	200.00 - 211.00	2	205.50	200.00 - 211.00
Total Hardness (mg/L CaCO3)	62	175.4	161.0 - 189.0	62	175.4	161.0 - 189.0
Total Organic Carbon (mg/L)	8	0.9	0.8 - 1.1	8	0.9	0.8 - 1.1
Trihalomethanes (µg/L)	62	9.4	5.9 - 19.8	62	9.4	5.9 - 19.8
Turbidity (NTU)	248	0.05	<0.04 - 0.09	62	0.05	<0.04 - 0.09
Uranium (mg/L)	2	0.0005	0.0005	2	0.0005	0.0005
Zinc (mg/L)	2	<0.005	<0.005	2	<0.005	<0.005

2.1.2 QUALITY ASSURANCE – January 2025

Drinking water quality must meet the requirements in the Alberta Environment and Protected Areas *Approval-to-Operate* (638-04-01) and the limits set out in the latest version of the Health Canada *Guidelines for Canadian Drinking Water Quality (GCDWQ)*. The latest internet edition of the *GCDWQ* was issued in October 2024. Health Canada updates their on-line document regularly, but they recommend always consulting individual guideline technical documents and guidance documents on Health Canada's website, "Water Quality—Reports and Publications" for the most current information. Guideline limits are listed as Maximum Acceptable Concentrations (MAC), Aesthetic Objectives (AO) or Operational Guidelines (OG). The latest edition of Health Canada's Guidelines includes parameter types, commons sources, health considerations and application of the guideline.

In addition, for treated water in the distribution system, total chlorine residual values under 0.5 mg/L are not necessarily violations of the approval, but do require immediate follow-up action and re-sampling. A violation of the current *Approval-to-Operate* (638-04-01) requirements occurs if the chlorine residual in more than 25% of samples collected in a day is < 0.5 mg/L. Alberta Environment and Protected Areas is to be notified of any single positive total coliform sample and follow-up sampling is done according to the *Communication and Action Protocol for Failed Bacteriological Results in Drinking Water*. Any sample that is positive for *E. coli* is also considered a violation and requires follow-up action and re-sampling. A repeat total coliform positive from the same location is also considered a violation.

Critical water quality parameters (e.g. turbidity, residual chlorine, fluoride, pH, & particle counts) in the treated water are monitored continuously using on-line instruments at the water treatment plants. In addition, water quality samples are collected daily at the two Water Treatment Plants, and 210 to 300 samples per month are collected throughout the distribution system (routine and random sampling sites, reservoirs, following system depressurizations and in response to customer complaints).

The EPCOR Water Laboratory is nationally accredited by CALA (Canadian Association for Laboratory Accreditation) to ISO/IEC 17025 for specific water quality analyses, and it also provides quality assurance support for Water Plant Operations labs and on-line analytical monitoring.

"*Violations*" occur when the concentrations of a measured parameter exceeds the AEPA *Approval-to-Operate* limits, including the MACs for the GCDWQ parameters listed Schedule 4.

"Variances" occur when the concentration of a measured parameter exceeds EPCOR's own internal water quality objectives. See section 2.1.1 of this report for EPCOR's internal water quality objectives.

2.1.4.1 **Total Water Quality Violations of AEP Approval-to-Operate:**

Current month: **0** YTD Total: **0**

2.1.4.2 **Water Quality Violations for Water Plants (Treated Water)**

Current month**: 0** YTD Total**: 0**

2.1.4.3 **Water Quality Violations (Environmental): Plants Waste Streams**

Current month**: 0** YTD Total**: 0**

2.1.4.4 **Violations for Water Quality in the Field Reservoirs and Distribution System**

Sample Type	This Month	YTD
Depressurization Samples	0	0
Complaint Samples	0	0
Random Samples	0	0
Reservoirs	0	0
TOTAL (Distribution)	0	0

2.1.4.5 **Variances from EPCOR Water Services Water Quality Objectives at the Water Treatment Plants**

Variance Category[1]	This Month	YTD
Aluminium[2] > 0.20 or 0.10 mg/L	0	0
Turbidity > 1 NTU	0	0
Chlorine < 1 mg/L or > 2.4 mg/L	0	0
Cryptosporidium ≥ 1/1000 L	0	0
Giardia ≥ 1/1000 L	0	0
Other	0	0
Total Variances + Violations	0 + 0 = 0	0 + 0 = 0

Notes: 1) Variance statistics include any violations.
2) As of October 18, 2024 both ELS and ROS WTP were converted to Direct Filtration mode. Aluminium limit changes from 0.1 mg/L to 0.2 mg/L (operational guideline), when in Direct Filtration.

2.1.4.6 **Variances from EPCOR Water Services Water Quality Objectives in the Field Reservoirs and Distribution System**

Variance Category[1]	This Month	YTD
Turbidity > 1 NTU	2	2
Chlorine < 1 mg/L or > 2.4 mg/L	0	0
Single Positive Coliform	0	0
THMs > 50 µg/L	0	0
Pipe Lube, Odour, UV positive	0	0
Aluminium[2] > 0.20 (or 0.1) mg/L	0	0
Iron > 0.10 mg/L	0	0
Other	0	0
Total Variances + Violations	2 + 0 = 2	2 + 0 = 2

Notes: 1) Variance statistics include any violations.
2) As of October 18, 2024 both ELS and ROS WTP were converted to Direct Filtration mode. Aluminium limit changes from 0.1 mg/L to 0.2 mg/L (operational guideline), when in Direct Filtration.

2.1.4.7 **Variances from EPCOR Water Services Water Quality Objectives (Lab Waste Streams)**

No variances to report for lab waste streams.

2.1.3 EXPLANATION OF NOTATIONS USED

Concentrations are reported as mg/L unless otherwise indicated.
Alkalinity and Hardness (Ca and Total) are reported as mg $CaCO_3$/L

%T	=	% Transmission
- ve	=	Absent
+ ve	=	Present
µg/L	=	Micrograms per litre (1 µg/L = 0.001 mg/L)
µS/cm	=	Microsiemens per centimeter (unit of conductivity)
2/Y	=	Twice per Year
AO	=	Aesthetic Objective
Bq/L	=	Becquerel(s) per litre (unit of radionuclide concentration)
CCPP	=	Calcium Carbonate Precipitation Potential
CFU	=	Colony Forming Units
Comm	=	Commercial Laboratories
D	=	Daily
EWSI	=	EPCOR Water Services Inc.
FPA	=	Flavour Profile Analysis
GCDWQ	=	Guidelines for Canadian Drinking Water Quality
GM	=	Geometric Mean
HPC	=	Heterotrophic Plate Count
inoff	=	Inoffensive (no objectionable odour)
M	=	Monthly
MAC	=	Maximum Acceptable Concentration
MDL	=	Method Detection Limit
N/A	=	Not Available
ND	=	Not Detected
NTU	=	Nephelometric Turbidity Units
PA	=	Presence/Absence Testing
PBR	=	Performance Based Rates
PHP	=	phenolphthalein
PLPH	=	Provincial Laboratory of Public Health
ppb	=	Parts Per Billion
ppm	=	Parts Per Million
Q	=	Quarterly
QA	=	Quality Assurance
QC	=	Quality Control
RDL	=	Reportable Detection Limit
TCU	=	True Colour Units
TDS	=	Total Dissolved Solids
TOC	=	Total Organic Carbon
WL	=	Water Laboratory
WTP	=	Water Treatment Plant

2.2.1 BACTERIOLOGICAL DATA

Water Treatment Plants

January 2025

Location	#	Mean	Range	YTD #	YTD Mean	YTD Range
EL Smith Raw						
Coliforms total (MPN/100 mL)	5	55.8	32.3 - 77.1	5	55.8	32.3 - 77.1
E. coli (MPN/100 mL)	5	Not Detected	3.1	5	Not Detected	3.1
Rossdale Raw						
Cellular ATP (pg/mL)	1	7.6	7.6	1	7.6	7.6
Coliforms total (MPN/100 mL)	31	470.5	28.5 - 7308.0	31	470.5	28.5 - 7308.0
E. coli (MPN/100 mL)	31	124.4	1.0 - 3328.0	31	124.4	1.0 - 3328.0
EL Smith Treated						
Cellular ATP (pg/mL)	31	0.1	<0.10 - 0.2	31	0.1	<0.10 - 0.2
Coliforms total (PA/100mL)	31	-VE	-VE	31	-VE	-VE
E. coli (PA/100mL)	31	-VE	-VE	31	-VE	-VE
Rossdale Treated						
Cellular ATP (pg/mL)	31	0.1	<0.10 - 0.3	31	0.1	<0.10 - 0.3
Coliforms total (PA/100mL)	31	-VE	-VE	31	-VE	-VE
E. coli (PA/100mL)	31	-VE	-VE	31	-VE	-VE
EL Smith Reservoir						
Cellular ATP (pg/mL)	31	0.1	<0.10 - 0.4	31	0.1	<0.10 - 0.4
Coliforms total (PA/100mL)	31	-VE	-VE	31	-VE	-VE
E. coli (PA/100mL)	31	-VE	-VE	31	-VE	-VE
Rossdale Reservoir						
Cellular ATP (pg/mL)	31	0.1	<0.10 - 0.3	31	0.1	<0.10 - 0.3
Coliforms total (PA/100mL)	31	-VE	-VE	31	-VE	-VE
E. coli (PA/100mL)	31	-VE	-VE	31	-VE	-VE

2.2.2 BACTERIOLOGICAL DATA

Distribution System

January 2025

Parameter (Units)	#	Mean	Range	YTD #	YTD Mean	YTD Range
Cellular ATP (pg/mL)	120	0.1	<0.10 - 1.0	120	0.1	<0.10 - 1.0
Coliforms total (PA/100mL)	197	-VE	-VE	197	-VE	-VE
E. coli (PA/100mL)	197	-VE	-VE	197	-VE	-VE

197

Count of Bacteriological Tests

101%

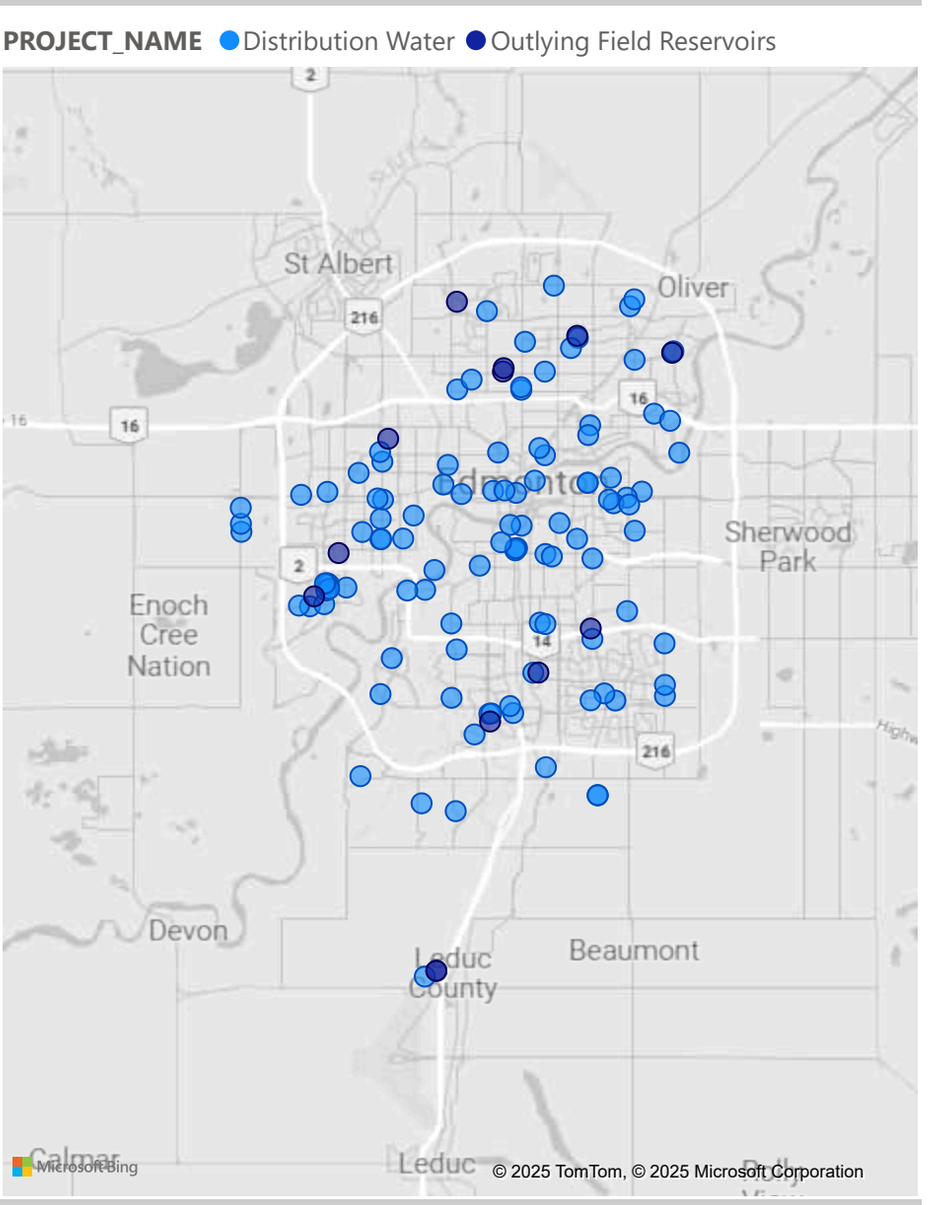
Percent of Target Goal

60%

Analyzed by AHS

40%

Analyzed by Epcor



2.2.3 SUMMARY OF GIARDIA AND CRYPTOSPORIDIUM

Water Treatment Plants

January 2025

Location	EL Smith Raw		EL Smith Reservoir		Rossdale Raw		Rossdale Reservoir	
Date	Cryptosporidium	Giardia	Cryptosporidium	Giardia	Cryptosporidium	Giardia	Cryptosporidium	Giardia
Jan 13					<32.29	<32.29	<0.1	<0.1
Jan 14	<1.64	<1.64	<0.09	<0.09				
Feb 10	<1	1	<0.1	<0.1	<1	13.9	<0.1	<0.1

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

January 2025

Parameter (units)	#	Mean	Range	YTD #	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Microbiologicals								
Coliforms total (PA/100mL)	31	-VE	-VE	31	-VE	-VE	0.0	
Cryptosporidium (oocysts/100L)	1	<0.1	<0.1	1	<0.1	<0.1		
E. coli (PA/100mL)	31	-VE	-VE	31	-VE	-VE	0.0	
Giardia (cysts/100L)	1	<0.1	<0.1	1	<0.1	<0.1		
Physical								
Colour (TCU)	31	0.8	0.5 - 1.2	31	0.8	0.5 - 1.2	(15.0)	<10.0
Conductivity (µS/cm)	4	371.3	364.0 - 380.0	4	371.3	364.0 - 380.0		
pH	31	8	8	31	8	8		7 - 8
Total Dissolved Solids (mg/L)	1	211.00	211.00	1	211.00	211.00		
Turbidity (NTU)	124	0.05	<0.04 - 0.09	31	0.05	<0.04 - 0.09	(3.00)	<0.10
Radionuclides								
Cesium-137 (Bq/L)								
Gross Alpha (Bq/L)								
Gross Beta (Bq/L)								
Iodine-131 (Bq/L)								
Lead-210 (Bq/L)								
Radium-226 (Bq/L)								
Strontium-90 (Bq/L)								
Tritium (Bq/L)								

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
2,4-D (µg/L)								
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)								
Atrazine + metabolites (µg/L)								
Benzene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0	
Benzo(a)pyrene (µg/L)								
Bromoxynil (µg/L)								
Carbon Tetrachloride (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Chlorpyrifos (µg/L)								
Cyanazine (µg/L)								
Diazinon (µg/L)								
Dicamba (µg/L)								
Dichlorobenzene (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0	
Dichloroethylene (1,1) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	14.0	
Dichlorophenol (2,4) (µg/L)								
Diclofop-methyl (µg/L)								
Dimethoate (µg/L)								
Diuron (µg/L)								
Ethylbenzene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	140.0 (1.6)	
Glyphosate (µg/L)								
Haloacetic acids total (HAA5) (µg/L)	1	11.60	11.60	1	11.60	11.60	80.00	<40.00
Malathion (µg/L)								
Methylene Chloride (Dichloromethane) (µg/L)	31	0.5	<0.5 - 1.0	31	<1.00	<0.5 - <1.00	50.0	
Metolachlor (µg/L)								
Metribuzin (µg/L)								
Microcystin total (µg/L)								
Nitrilotriacetic acid (NTA) (mg/L)								
Nitrosodimethylamine, N- [NDMA] (µg/L)	1	<0.0016	<0.0016	1	<0.0016	<0.0016	0.04000	<0.01000
Omethoate (µg/L)								
Omethoate (as dimethoate) (µg/L)								
Pentachlorophenol (µg/L)								
Perfluorooctanesulfonic acid [PFOS] (µg/L)								
Perfluorooctanoic acid [PFOA] (µg/L)								
Picloram (µg/L)								
Simazine (µg/L)								
Terbufos (µg/L)								
Tetrachloroethylene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	10.0	
Tetrachlorophenol (2,3,4,6) (µg/L)								
Toluene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0	
Trichlorophenol (2,4,6) (µg/L)								
Trifluralin (µg/L)								
Trihalomethanes (µg/L)	31	10.5	7.3 - 19.8	31	10.5	7.3 - 19.8	100.0	<50.0
Vinyl Chloride (µg/L)	31	0.97	<0.50 - 1.00	31	<1.0	<0.50 - <1.0	2.00	
Xylenes total (µg/L)	31	0.97	<0.50 - 1.00	31	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromochloroacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Bromodichloromethane (µg/L)	31	0.8	0.5 - 1.4	31	0.8	0.5 - 1.4		
Bromoform (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	31	9.5	6.5 - 19.1	31	9.5	6.5 - 19.1	(40.0)	
Dibromoacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Dibromochloromethane (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroacetic acid (µg/L)	1	5.90	5.90	1	5.90	5.90		
Dichlorobenzene (1,3) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Methoxychlor (µg/L)								
Methyl Isobutyl Ketone (µg/L)	2	<20	<20	2	<20	<20		
Methyl Isobutyl Ketone (MIBK) (µg/L)	29	<1.0	<1.0	29	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5	(15.0)	
Methyl-t-Butyl Ether (MTBE) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50	100.00	<50.00
Monobromoacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Monochloroacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Styrene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Total Organic Carbon (mg/L)	4	0.9	0.8 - 1.1	4	0.9	0.8 - 1.1		
Total Volatile Organics (Non THM) (µg/L)	29	1.7	<1.0 - 2.9	29	1.7	<1.0 - 2.9		
Trichloroacetic acid (µg/L)	1	5.73	5.73	1	5.73	5.73		
Trichlorobenzene (1,2,4) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Trichloroethane (1,1,1) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)	31	0.49	<0.30 - 0.50	31	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)	31	0.49	<0.40 - 0.50	31	<0.5	<0.40 - <0.5		

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.054	0.054	1	0.054	0.054	2.000	
Boron (mg/L)	1	0.008	0.008	1	0.008	0.008	5.000	
Bromate Dissolved (mg/L)	4	0.005	<0.003 - 0.005	4	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002	0.00700	
Chlorate dissolved (mg/L)	4	0.19	0.10 - 0.24	4	0.19	0.1 - 0.24	1.00	
Chlorine total (mg/L)	31	2.10	1.94 - 2.18	31	2.10	1.94 - 2.18		1.00 - 2.40
Chlorite Dissolved (mg/L)	4	0.054	<0.005 - 0.200	4	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0500	
Cyanide (mg/L)								
Fluoride (mg/L)	31	0.68	0.64 - 0.72	31	0.68	0.64 - 0.72	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0010	
Mercury, total (µg/L)								
Nitrate (as N) dissolved (mg/L)	3	0.09	0.09	3	0.09	0.09	10.00	
Nitrite (as N) dissolved (mg/L)	3	0.01	0.01	3	0.01	0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	1	0.0002	0.0002	0.0500	
Uranium (mg/L)	1	0.0005	0.0005	1	0.0005	0.0005	0.0200	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	31	120.0	111.0 - 127.0	31	120.0	111.0 - 127.0		
Aluminum (mg/L)	1	0.082	0.082	1	0.082	0.082	2.900 (0.100)	
Ammonia as NH3 (mg/L)	15	0.12	0.10 - 0.16	15	0.12	0.10 - 0.16		
Beryllium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	4	0.04	<0.03 - 0.05	4	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	45.8	45.8	1	45.8	45.8		
Calcium Hardness (mg/L CaCO3)	31	116.1	108.0 - 124.0	31	116.1	108.0 - 124.0		
Chloride Dissolved (mg/L)	4	5.23	4.59 - 5.82	4	5.23	4.59 - 5.82	(250.00)	
Chlorine free (mg/L)	1	<0.07	<0.07	1	<0.07	<0.07		
Cobalt (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(0.300)	
Lithium (mg/L)	1	0.0030	0.0030	1	0.0030	0.0030		
Magnesium (mg/L)	1	14.2	14.2	1	14.2	14.2		
Manganese (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0006	0.0006	1	0.0006	0.0006		
Nickel (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	1	<0.02	<0.02	1	<0.02	<0.02		
Phosphorus (mg/L)	1	<0.02	<0.02	1	<0.02	<0.02		
Potassium (mg/L)	1	0.6	0.6	1	0.6	0.6		
Silicon (mg/L)	1	1.92	1.92	1	1.92	1.92		
Silver (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002		
Sodium (mg/L)	1	6.8	6.8	1	6.8	6.8	(200.0)	
Strontium (mg/L)	1	0.469	0.469	1	0.469	0.469	7.000	
Sulphate Dissolved (mg/L)	4	60.4	59.3 - 62.7	4	60.4	59.3 - 62.7	(500.0)	
Sulphide (mg/L)								
Thallium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	31	175.4	165.0 - 189.0	31	175.4	165.0 - 189.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L Smith Water Treatment Plant

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Microbiologicals								
Coliforms total (PA/100mL)	31	-VE	-VE	31	-VE	-VE	0.0	
Cryptosporidium (oocysts/100L)	1	<0.09	<0.09	1	<0.09	<0.09		
E. coli (PA/100mL)	31	-VE	-VE	31	-VE	-VE	0.0	
Giardia (cysts/100L)	1	<0.09	<0.09	1	<0.09	<0.09		
Physical								
Colour (TCU)	31	0.8	<0.5 - 1.7	31	0.8	<0.5 - 1.7	(15.0)	<10.0
Conductivity (µS/cm)	4	372.5	362.0 - 379.0	4	372.5	362.0 - 379.0		
pH	31	8	8	31	8	8		7 - 8
Total Dissolved Solids (mg/L)	1	200.00	200.00	1	200.00	200.00		
Turbidity (NTU)	124	0.05	<0.04 - 0.08	31	0.05	<0.04 - 0.08	(3.00)	<0.10
Radionuclides								
Cesium-137 (Bq/L)								
Gross Alpha (Bq/L)								
Gross Beta (Bq/L)								
Iodine-131 (Bq/L)								
Lead-210 (Bq/L)								
Radium-226 (Bq/L)								
Strontium-90 (Bq/L)								
Tritium (Bq/L)								

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L. Smith Water Treatment Plant

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
2,4-D (µg/L)								
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)								
Atrazine + metabolites (µg/L)								
Benzene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0	
Benzo(a)pyrene (µg/L)								
Bromoxynil (µg/L)								
Carbon Tetrachloride (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Chlorpyrifos (µg/L)								
Cyanazine (µg/L)								
Diazinon (µg/L)								
Dicamba (µg/L)								
Dichlorobenzene (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0	
Dichloroethylene (1,1) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	14.0	
Dichlorophenol (2,4) (µg/L)								
Diclofop-methyl (µg/L)								
Dimethoate (µg/L)								
Diuron (µg/L)								
Ethylbenzene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	140.0 (1.6)	
Glyphosate (µg/L)								
Haloacetic acids total (HAA5) (µg/L)	1	11.60	11.60	1	11.60	11.60	80.00	<40.00
Malathion (µg/L)								
Methylene Chloride (Dichloromethane) (µg/L)	31	0.5	<0.5 - 1.0	31	<1.00	<0.5 - <1.00	50.0	
Metolachlor (µg/L)								
Metribuzin (µg/L)								
Microcystin total (µg/L)								
Nitrilotriacetic acid (NTA) (mg/L)								
Nitrosodimethylamine, N- [NDMA] (µg/L)	1	<0.0016	<0.0016	1	<0.0016	<0.0016	0.04000	<0.01000
Omethoate (µg/L)								
Omethoate (as dimethoate) (µg/L)								
Pentachlorophenol (µg/L)								
Perfluorooctanesulfonic acid [PFOS] (µg/L)								
Perfluorooctanoic acid [PFOA] (µg/L)								
Picloram (µg/L)								
Simazine (µg/L)								
Terbufos (µg/L)								
Tetrachloroethylene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	10.0	
Tetrachlorophenol (2,3,4,6) (µg/L)								
Toluene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0	
Trichlorophenol (2,4,6) (µg/L)								
Trifluralin (µg/L)								
Trihalomethanes (µg/L)	31	10.5	7.3 - 19.8	31	10.5	7.3 - 19.8	100.0	<50.0
Vinyl Chloride (µg/L)	31	0.97	<0.50 - 1.00	31	<1.0	<0.50 - <1.0	2.00	
Xylenes total (µg/L)	31	0.97	<0.50 - 1.00	31	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L. Smith Water Treatment Plant

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromochloroacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Bromodichloromethane (µg/L)	31	0.7	<0.5 - 0.9	31	0.7	<0.5 - 0.9		
Bromoform (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	31	7.4	4.7 - 16.8	31	7.4	4.7 - 16.8	(40.0)	
Dibromoacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Dibromochloromethane (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroacetic acid (µg/L)	1	5.12	5.12	1	5.12	5.12		
Dichlorobenzene (1,3) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Methoxychlor (µg/L)								
Methyl Isobutyl Ketone (µg/L)	2	<20	<20	2	<20	<20		
Methyl Isobutyl Ketone (MIBK) (µg/L)	29	<1.0	<1.0	29	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5	(15.0)	
Methyl-t-Butyl Ether (MTBE) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50	100.00	<50.00
Monobromoacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Monochloroacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Styrene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Total Organic Carbon (mg/L)	4	0.9	0.8 - 1.0	4	0.9	0.8 - 1.0		
Trichloroacetic acid (µg/L)	1	4.44	4.44	1	4.44	4.44		
Trichlorobenzene (1,2,4) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Trichloroethane (1,1,1) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)	31	0.49	<0.30 - 0.50	31	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)	31	0.49	<0.40 - 0.50	31	<0.5	<0.40 - <0.5		

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L. Smith Water Treatment Plant

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.053	0.053	1	0.053	0.053	2.000	
Boron (mg/L)	1	0.008	0.008	1	0.008	0.008	5.000	
Bromate Dissolved (mg/L)	4	0.005	<0.003 - 0.005	4	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002	0.00700	
Chlorate dissolved (mg/L)	4	0.10	0.09 - 0.11	4	0.114	<0.1 - 0.11	1.00	
Chlorine total (mg/L)	31	2.08	1.92 - 2.17	31	2.08	1.92 - 2.17		1.00 - 2.40
Chlorite Dissolved (mg/L)	4	0.054	<0.005 - 0.200	4	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0500	
Cyanide (mg/L)								
Fluoride (mg/L)	31	0.65	0.61 - 0.69	31	0.65	0.61 - 0.69	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0010	
Mercury, total (µg/L)								
Nitrate (as N) dissolved (mg/L)	3	0.09	0.09	3	0.09	0.09	10.00	
Nitrite (as N) dissolved (mg/L)	3	0.01	0.01	3	0.01	0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	1	0.0002	0.0002	0.0500	
Uranium (mg/L)	1	0.0005	0.0005	1	0.0005	0.0005	0.0200	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L. Smith Water Treatment Plant

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromochloroacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Bromodichloromethane (µg/L)	31	0.7	<0.5 - 0.9	31	0.7	<0.5 - 0.9		
Bromoform (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	31	7.4	4.7 - 16.8	31	7.4	4.7 - 16.8	(40.0)	
Dibromoacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Dibromochloromethane (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroacetic acid (µg/L)	1	5.12	5.12	1	5.12	5.12		
Dichlorobenzene (1,3) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Methoxychlor (µg/L)								
Methyl Isobutyl Ketone (µg/L)	2	<20	<20	2	<20	<20		
Methyl Isobutyl Ketone (MIBK) (µg/L)	29	<1.0	<1.0	29	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5	(15.0)	
Methyl-t-Butyl Ether (MTBE) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50	100.00	<50.00
Monobromoacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Monochloroacetic acid (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00		
Styrene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Total Organic Carbon (mg/L)	4	0.9	0.8 - 1.0	4	0.9	0.8 - 1.0		
Trichloroacetic acid (µg/L)	1	4.44	4.44	1	4.44	4.44		
Trichlorobenzene (1,2,4) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Trichloroethane (1,1,1) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)	31	0.49	<0.30 - 0.50	31	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)	31	0.49	<0.40 - 0.50	31	<0.5	<0.40 - <0.5		

2.2.5 TREATED WATER ENTERING THE PLANT RESERVOIR

E.L. Smith and Rossdale Reservoirs

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
EL Smith Combined Filter Effluent								
UV 254 % Transmittance (%T/cm)	31	97.0	95.3	31	97.0	95.3 - 97.0		
UV 254 % Transmittance (UV Abs/cm)	31	0.017	0.013 - 0.021	31	0.017	0.013 - 0.021		
EL Smith Treated								
Turbidity (NTU)	124	0.05	<0.04 - 0.08	31	0.05	<0.04 - 0.08	(3.00)	<0.10
Rossdale Filter Effluent								
UV 254 % Transmittance (%T/cm)	31	96.9	95.3	31	96.9	95.3 - 96.9		
UV 254 % Transmittance (UV Abs/cm)	31	0.017	0.014 - 0.021	31	0.017	0.014 - 0.021		
Rossdale Treated								
Turbidity (NTU)	124	0.05	<0.04 - 0.09	31	0.05	<0.04 - 0.09	(3.00)	<0.10
Primary Organics								
EL Smith Treated								
Benzene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5		
Chlorobenzene (Monochlorobenzene) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50		
Dichlorobenzene (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50	5.00	
Dichloroethylene (1,1) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	31	0.5	<0.5 - 1.0	31	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	29	6.3	5.1 - 8.2	29	6.3	5.1 - 8.2	100.0	<50.0
Trihalomethanes (THMs), Total (µg/L)	2	15.6	14.6 - 16.6	2	15.6	14.6 - 16.6	100.0	<50.0
Xylenes total (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50	90.00 (20.00)	
Rossdale Treated								
Benzene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5		
Chlorobenzene (Monochlorobenzene) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50		
Dichlorobenzene (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50	5.00	
Dichloroethylene (1,1) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	31	0.5	<0.5 - 1.0	31	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50	60.0 (24.0)	
Total Xylenes (µg/L)	29	<1.0	<1.0	29	<1.0	<1.0	90.0 (20.0)	
Trichloroethylene (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	31	9.1	6.4 - 18.6	31	9.1	6.4 - 18.6	100.0	<50.0

2.2.5 TREATED WATER ENTERING THE PLANT RESERVOIR

E.L. Smith and Rossdale Reservoirs

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
EL Smith Treated								
Bromodichloromethane (µg/L)	31	0.6	<0.5 - 0.8	31	0.6	<0.5 - 0.8		
Bromoform (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	31	6.2	4.1 - 16.0	31	6.2	4.1 - 16.0	(40.0)	
Dibromochloromethane (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50		
Dichlororpropane (1,2) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5		
Methyl Isobutyl Ketone (µg/L)	2	<20	<20	2	<20	<20		
Methyl Isobutyl Ketone (MIBK) (µg/L)	29	<1.0	<1.0	29	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5	(15.0)	
Methyl-t-Butyl Ether (MTBE) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50	100.00	<50.00
Styrene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50		
Tetrachlororethane (1,1,2,2) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5		
Total Organic Carbon (mg/L)								
Trichlorobenzene (1,2,4) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50		
Trichloroethylene (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50	5.00	
Trichlororbenzene (1,2,4) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5		
Xylene (1,2) (µg/L)	31	0.49	<0.30 - 0.50	31	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)	31	0.49	<0.40 - 0.50	31	<0.5	<0.40 - <0.5		
Rossdale Treated								
Bromodichloromethane (µg/L)	31	0.7	<0.5 - 1.0	31	0.7	<0.5 - 1.0		
Bromoform (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	31	8.3	5.7 - 17.9	31	8.3	5.7 - 17.9	(40.0)	
Dibromochloromethane (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50		
Dichlororpropane (1,2) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5		
Methyl Isobutyl Ketone (µg/L)	2	<20	<20	2	<20	<20		
Methyl Isobutyl Ketone (MIBK) (µg/L)	29	<1.0	<1.0	29	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5	(15.0)	
Methyl-t-Butyl Ether (MTBE) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50	100.00	<50.00
Styrene (µg/L)	31	<0.50	<0.5	31	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50		
Tetrachlororethane (1,1,2,2) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5		
Total Volatile Organics (Non THM) (µg/L)	29	1.5	<1.0 - 2.5	29	1.5	<1.0 - 2.5		
Trichlorobenzene (1,2,4) (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50		
Trichloroethylene (µg/L)	2	<0.50	<0.50	2	<0.50	<0.50	5.00	
Trichlororbenzene (1,2,4) (µg/L)	29	<0.5	<0.5	29	<0.5	<0.5		
Xylene (1,2) (µg/L)	31	0.49	<0.30 - 0.50	31	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)	31	0.49	<0.40 - 0.50	31	<0.5	<0.40 - <0.5		

2.2.5 TREATED WATER ENTERING THE PLANT RESERVOIR

E.L. Smith and Rossdale Reservoirs

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Inorganics								
EL Smith Treated								
Bromate Dissolved (mg/L)	4	0.005	<0.003 - 0.005	4	<0.005	<0.003 - <0.005	0.010	
Chlorate dissolved (mg/L)	4	0.10	0.08 - 0.12	4	0.119	<0.1 - 0.12	1.00	
Chlorite Dissolved (mg/L)	4	0.054	<0.005 - 0.200	4	<0.2	<0.005 - <0.2	1.000	
Nitrate (as N) dissolved (mg/L)	3	0.09	0.09	3	0.09	0.09	10.00	
Nitrite (as N) dissolved (mg/L)	3	0.01	0.01	3	0.01	0.01	1.00	
Rossdale Treated								
Bromate Dissolved (mg/L)	4	0.005	<0.003 - 0.005	4	<0.005	<0.003 - <0.005	0.010	
Chlorate dissolved (mg/L)	4	0.18	0.10 - 0.22	4	0.18	0.1 - 0.22	1.00	
Chlorite Dissolved (mg/L)	4	0.054	<0.005 - 0.200	4	<0.2	<0.005 - <0.2	1.000	
Nitrate (as N) dissolved (mg/L)	3	0.09	0.09	3	0.09	0.09	10.00	
Nitrite (as N) dissolved (mg/L)	3	0.01	0.01	3	0.01	0.01	1.00	
Secondary Inorganics								
EL Smith Treated								
Ammonia as NH3 (mg/L)	15	0.11	0.09 - 0.14	15	0.11	0.09 - 0.14		
Bromide Dissolved (mg/L)	4	0.04	<0.03 - 0.05	4	<0.05	<0.03 - <0.05		
Chloride Dissolved (mg/L)	4	5.07	4.84 - 5.27	4	5.07	4.84 - 5.27	(250.00)	
Sulphate Dissolved (mg/L)	4	62.1	60.5 - 63.8	4	62.1	60.5 - 63.8	(500.0)	
Rossdale Treated								
Ammonia as NH3 (mg/L)	15	0.13	0.10 - 0.17	15	0.13	0.10 - 0.17		
Bromide Dissolved (mg/L)	4	0.04	<0.03 - 0.05	4	<0.05	<0.03 - <0.05		
Chloride Dissolved (mg/L)	4	5.02	4.63 - 5.49	4	5.02	4.63 - 5.49	(250.00)	
Sulphate Dissolved (mg/L)	4	60.6	59.2 - 62.6	4	60.6	59.2 - 62.6	(500.0)	

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Microbiologicals								
Coliforms total (MPN/100 mL)								
Coliforms total (PA/100mL)	145	-VE	-VE	145	-VE	-VE	0.0	
E. coli (MPN/100 mL)								
E. coli (PA/100mL)	145	-VE	-VE	145	-VE	-VE	0.0	
Physical								
Colour (TCU)								
pH	2	8	8	2	8	8		7 - 8
Total Dissolved Solids (TDS) (mg/L)								
Turbidity (NTU)	580	0.15	<0.04 - 1.37	145	0.15	<0.04 - 1.37	(3.00)	<0.10
UV Absorbance (UV Abs/cm)								

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
2,4-D (µg/L)								
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)								
Atrazine + N-dealkylated metabolites (µg/L)								
Benzene (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	5.0	
Benzo(a)pyrene (µg/L)								
Bromochloroacetic acid (µg/L)	6	<1.00	<1.00	6	<1.00	<1.00		
Bromoxynil (µg/L)								
Carbaryl (µg/L)								
Carbon Tetrachloride (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Chlorobenzene (Monochlorobenzene) (µg/L)								
Chlorpyrifos (µg/L)								
Cyanazine (µg/L)								
Diazinon (µg/L)								
Dicamba (µg/L)								
Dichlorobenzene (1,2) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	14.0	
Dichlorophenol (2,4) (µg/L)								
Dimethoate (µg/L)								
Diuron (µg/L)								
Ethylbenzene (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	140.0 (1.6)	
Glyphosate (µg/L)								
Haloacetic acids total (HAA5) (µg/L)	6	10.35	9.63 - 12.60	6	10.35	9.63 - 12.60	80.00	<40.00
Malathion (µg/L)								
Methylene Chloride (Dichloromethane) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	50.0	
Metolachlor (µg/L)								
Metribuzin (µg/L)								
Microcystin total (µg/L)								
Nitrilotriacetic acid (NTA) (mg/L)								
Nitrosodimethylamine, N- [NDMA] (µg/L)	3	0.00250	<0.0019 - 0.00360	3	<0.0036	<0.0019 - <0.0036	0.04000	<0.01000
Omethoate (µg/L)								
Omethoate (as dimethoate) (µg/L)								
Pentachlorophenol (µg/L)								
Perfluorooctanesulfonic acid [PFOS] (µg/L)								
Perfluorooctanoic acid [PFOA] (µg/L)								
Phorate (µg/L)								
Picloram (µg/L)								
Simazine (µg/L)								
Tetrachloroethylene (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	10.0	
Tetrachlorophenol (2,3,4,6) (µg/L)								
Toluene (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	5.0	
Trichloroethylene (Trichloroethene) (µg/L)								
Trichlorophenol (2,4,6) (µg/L)								
Trifluralin (µg/L)								
Trihalomethanes (µg/L)	6	9.2	6.9 - 12.9	6	9.2	6.9 - 12.9	100.0	<50.0
Vinyl Chloride (µg/L)	6	<1.0	<1.0	6	<1.0	<1.0	2.0	
Xylenes total (µg/L)	6	<1.0	<1.0	6	<1.0	<1.0	90.0 (20.0)	

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	6	0.9	0.7 - 1.2	6	0.9	0.7 - 1.2		
Bromoform (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Chloroform (µg/L)	6	7.9	5.7 - 11.2	6	7.9	5.7 - 11.2		
Dibromoacetic acid (µg/L)	6	<1.00	<1.00	6	<1.00	<1.00		
Dibromochloromethane (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Dichloroacetic acid (µg/L)	6	5.51	4.82 - 6.77	6	5.51	4.82 - 6.77		
Dichlorobenzene (1,3) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Methyl Isobutyl Ketone (µg/L)								
Methyl Isobutyl Ketone (MIBK) (µg/L)	6	<1.0	<1.0	6	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5	(15.0)	
Methyl-t-Butyl Ether (MTBE) (µg/L)								
Monobromoacetic acid (µg/L)	6	<1.00	<1.00	6	<1.00	<1.00		
Monochloroacetic acid (µg/L)	6	<1.00	<1.00	6	<1.00	<1.00		
Styrene (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Total Organic Carbon (mg/L)	2	0.9	0.9	2	0.9	0.9		
Total Volatile Organics (Non THM) (µg/L)	6	1.6	<1.0 - 2.3	6	1.6	<1.0 - 2.3		
Trichloroacetic acid (µg/L)	6	4.85	4.47 - 5.85	6	4.85	4.47 - 5.85		
Trichlorobenzene (1,2,4) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Xylene (1,2) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		
Xylene (1,4) (µg/L)	6	<0.5	<0.5	6	<0.5	<0.5		

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Inorganics								
Antimony (mg/L)								
Arsenic (mg/L)								
Barium (mg/L)								
Beryllium (mg/L)								
Boron (mg/L)								
Bromate Dissolved (mg/L)								
Cadmium (mg/L)								
Chlorate dissolved (mg/L)								
Chlorine total (mg/L)	145	1.94	1.40 - 2.34	145	1.94	1.40 - 2.34		1.00 - 2.40
Chlorite Dissolved (mg/L)								
Chromium (mg/L)								
Cyanide (mg/L)								
Fluoride (mg/L)								
Lead (mg/L)								
Mercury (mg/L)								
Mercury, total (µg/L)								
Nitrate (as N) dissolved (mg/L)	2	0.10	0.10	2	0.10	0.10	10.00	
Nitrite (as N) dissolved (mg/L)	2	0.01	<0.01	2	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)								
Uranium (mg/L)								

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

January 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)								
Aluminum (mg/L)								
Ammonia as NH3 (mg/L)	4	0.13	0.10 - 0.16	2	0.13	0.10 - 0.16		
Bromide Dissolved (mg/L)								
Calcium (mg/L)								
Chloride Dissolved (mg/L)								
Chlorine free (mg/L)								
Cobalt (mg/L)								
Copper (mg/L)								
Iron (mg/L)								
Lithium (mg/L)								
Magnesium (mg/L)								
Manganese (mg/L)								
Molybdenum (mg/L)								
Nickel (mg/L)								
Phosphorus (mg/L)								
Potassium (mg/L)								
Silicon (mg/L)								
Silver (mg/L)								
Sodium (mg/L)								
Strontium (mg/L)								
Sulphate Dissolved (mg/L)								
Sulphide (mg/L)								
Thallium (mg/L)								
Tin (mg/L)								
Titanium (mg/L)								
Total Hardness (mg/L CaCO3)								
Vanadium (mg/L)								
Zinc (mg/L)								
Zirconium (mg/L)								

2.2.7 Additional Distribution System Samples Collected from Water Quality Complaint Investigations

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	9	0.7	0.5 - 0.9	9	0.7	0.5 - 0.9	(15.0)	<10.0
pH	9	8	8	9	8	8		7 - 8
Turbidity (NTU)	36	0.23	0.05 - 0.81	9	0.23	0.05 - 0.81	(3.00)	<0.10
Primary Organics								
1,1-Dichloroethylene (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50	14.00	
1,2-Dichlorobenzene (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50	200.00 (3.00)	
1,2-Dichloroethane (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50	5.00	
1,4-Dichlorobenzene (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50	5.00 (1.00)	
Benzene (µg/L)	9	<0.50	<0.5	9	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)	9	<0.50	<0.5	9	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	9	<0.50	<0.5	9	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5	14.0	
Dichloromethane (µg/L)	1	<1.00	<1.00	1	<1.00	<1.00	50.00	
Ethylbenzene (µg/L)	9	<0.50	<0.5	9	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	9	<0.50	<0.5	9	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)	9	<0.50	<0.5	9	<0.50	<0.5 - <0.50	60.0 (24.0)	
Total Xylenes (µg/L)	8	<1.0	<1.0	8	<1.0	<1.0	90.0 (20.0)	
Trichloroethylene (µg/L)	9	<0.50	<0.5	9	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)	8	11.8	8.3 - 16.8	8	11.8	8.3 - 16.8	100.0	<50.0
Trihalomethanes (THMs), Total (µg/L)	1	17.3	17.3	1	17.3	17.3	100.0	<50.0
Vinyl Chloride (µg/L)	9	0.94	<0.50 - 1.00	9	<1.0	<0.50 - <1.0	2.00	
Xylenes, Total (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50	90.00 (20.00)	

2.2.7 Additional Distribution System Samples Collected from Water Quality Complaint Investigations

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
1,1,1-Trichloroethane (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50		
1,1,2,2-Tetrachloroethane (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50		
1,2,4-Trichlorobenzene (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50		
1,2-Dichloroethylene, cis (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50		
1,2-Dichloroethylene, trans (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50		
1,2-Dichloropropane (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50		
1,3-Dichlorobenzene (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50		
Bromodichloromethane (µg/L)	9	0.9	0.8 - 1.3	9	0.9	0.8 - 1.3		
Bromoform (µg/L)	9	<0.50	<0.5	9	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	9	11.4	7.1 - 16.5	9	11.4	7.1 - 16.5	(40.0)	
Dibromochloromethane (µg/L)	9	<0.50	<0.5	9	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5		
Dichloroethylene, cis (1,2) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5		
Dichloroethylene, trans (1,2) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5		
m+p-Xylene (µg/L)	1	<0.40	<0.40	1	<0.40	<0.40		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<20	<20	1	<20	<20		
Methyl t-Butyl Ether (MTBE) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5	(15.0)	
Methyl-tert-butyl ether (MTBE) (µg/L)	1	<0.50	<0.50	1	<0.50	<0.50	100.00	<50.00
MIBK (µg/L)	8	<1.0	<1.0	8	<1.0	<1.0		
o-Xylene (µg/L)	1	<0.30	<0.30	1	<0.30	<0.30		
Styrene (µg/L)	9	<0.50	<0.5	9	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5		
Total Volatile Organics (NonTHM) (µg/L)	8	1.7	<1.0 - 3.1	8	1.7	<1.0 - 3.1		
Trichlorobenzene (1,2,4) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5		
Xylene (1,2) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5		
Xylene (1,4) (µg/L)	8	<0.5	<0.5	8	<0.5	<0.5		

2.2.7 Additional Distribution System Samples Collected from Water Quality Complaint Investigations

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Inorganics								
Antimony (mg/L)	9	<0.0005	<0.0005	9	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	9	0.0002	<0.0002	9	0.0002	<0.0002	0.0100	
Barium (mg/L)	9	0.057	0.054 - 0.062	9	0.057	0.054 - 0.062	2.000	
Beryllium (mg/L)	9	0.0002	<0.0002	9	0.0002	<0.0002		
Boron (mg/L)	9	0.009	0.008 - 0.012	9	0.009	0.008 - 0.012	5.000	
Cadmium (mg/L)	9	<0.00002	<0.00002	9	<0.00002	<0.00002	0.00700	
Chromium (mg/L)	9	0.0002	<0.0002	9	0.0002	<0.0002	0.0500	
Lead (mg/L)	9	0.0002	<0.0002 - 0.0003	9	0.0002	<0.0002 - 0.0003	0.0050	
Selenium (mg/L)	9	0.0002	0.0002 - 0.0003	9	0.0002	0.0002 - 0.0003	0.0500	
Total Chlorine (mg/L)	9	1.88	1.55 - 2.11	9	1.88	1.55 - 2.11		1.00 - 2.40
Uranium (mg/L)	9	0.0005	<0.0005 - 0.0006	9	0.0005	<0.0005 - 0.0006	0.0200	
Secondary Inorganics								
Aluminum (mg/L)	9	0.067	0.024 - 0.137	9	0.067	0.024 - 0.137	2.900 (0.100)	
Calcium (mg/L)	9	48.7	46.9 - 50.5	9	48.7	46.9 - 50.5		
Calcium Hardness Calculated (mg/L CaCO3)	1	126.0	126.0	1	126.0	126.0		
Cobalt (mg/L)	9	0.0002	<0.0002	9	0.0002	<0.0002		
Copper (mg/L)	9	0.003	<0.002 - 0.005	9	0.003	<0.002 - 0.005	2.000 (1.000)	
Free Chlorine (mg/L)	1	<0.07	<0.07	1	<0.07	<0.07		
Iron (mg/L)	9	0.028	<0.005 - 0.097	9	0.028	<0.005 - 0.097	(0.300)	
Lithium (mg/L)	9	0.0033	0.0031 - 0.0037	9	0.0033	0.0031 - 0.0037		
Magnesium (mg/L)	9	14.6	13.9 - 15.5	9	14.6	13.9 - 15.5		
Manganese (mg/L)	9	0.002	<0.002 - 0.004	9	0.002	<0.002 - 0.004	0.120 (0.020)	
Molybdenum (mg/L)	9	0.0006	0.0005 - 0.0006	9	0.0006	0.0005 - 0.0006		
Nickel (mg/L)	9	0.0005	<0.0005 - 0.0006	9	0.0005	<0.0005 - 0.0006		
Phosphorus (mg/L)	9	0.99	0.89 - 1.04	9	0.99	0.89 - 1.04		
Potassium (mg/L)	9	0.7	0.6 - 0.7	9	0.7	0.6 - 0.7		
Silicon (mg/L)	9	2.16	1.93 - 2.36	9	2.16	1.93 - 2.36		
Silver (mg/L)	9	<0.00002	<0.00002	9	<0.00002	<0.00002		
Sodium (mg/L)	9	6.6	6.0 - 7.1	9	6.6	6.0 - 7.1	(200.0)	
Strontium (mg/L)	9	0.469	0.453 - 0.494	9	0.469	0.453 - 0.494	7.000	
Thallium (mg/L)	9	0.0002	<0.0002	9	0.0002	<0.0002		
Tin (mg/L)	9	<0.0005	<0.0005	9	<0.0005	<0.0005		
Titanium (mg/L)	9	<0.0005	<0.0005	9	<0.0005	<0.0005		
Total Hardness Calculated (mg/L CaCO3)	8	180.9	176.0 - 189.0	8	180.9	176.0 - 189.0		
Vanadium (mg/L)	9	<0.0005	<0.0005	9	<0.0005	<0.0005		
Zinc (mg/L)	9	<0.005	<0.005	9	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	9	<0.001	<0.001	9	<0.001	<0.001		

2.2.8 Castledowns Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
Benzene (µg/L)								
Carbon Tetrachloride (µg/L)								
Chlorobenzene (µg/L)								
Dichlorobenzene (1,2) (µg/L)								
Dichlorobenzene (1,4) (µg/L)								
Dichloroethane (1,2) (µg/L)								
Dichloroethylene (1,1) (µg/L)								
Ethylbenzene (µg/L)								
Methylene Chloride (Dichloromethane) (µg/L)								
Tetrachloroethylene (µg/L)								
Toluene (µg/L)								
Trichloroethylene (µg/L)								
Trihalomethanes (µg/L)								
Vinyl Chloride (µg/L)								
Xylenes total (µg/L)								
Physical								
Colour (TCU)								
Conductivity (µS/cm)								
pH								
Turbidity (NTU)	16	0.11	0.09 - 0.14	4	0.11	0.09 - 0.14	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)								
Arsenic (mg/L)								
Barium (mg/L)								
Beryllium (mg/L)								
Boron (mg/L)								
Bromate Dissolved (mg/L)								
Cadmium (mg/L)								
Chlorate dissolved (mg/L)								
Chlorite Dissolved (mg/L)								
Chromium (mg/L)								
Fluoride (mg/L)								
Lead (mg/L)								
Mercury (mg/L)								
Nitrate (as N) dissolved (mg/L)								
Nitrite (as N) dissolved (mg/L)								
Selenium (mg/L)								
Uranium (mg/L)								
Chlorine total (mg/L)	4	2.02	1.94 - 2.05	4	2.02	1.94 - 2.05		1.00 - 2.40

2.2.8 Castledowns Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)								
Aluminum (mg/L)								
Ammonia as NH3 (mg/L)	4	0.13	0.12 - 0.13	4	0.13	0.12 - 0.13		
Bromide Dissolved (mg/L)								
Calcium (mg/L)								
Calcium Hardness (mg/L CaCO3)								
Chloride Dissolved (mg/L)								
Cobalt (mg/L)								
Copper (mg/L)								
Iron (mg/L)								
Lithium (mg/L)								
Magnesium (mg/L)								
Manganese (mg/L)								
Molybdenum (mg/L)								
Nickel (mg/L)								
Phosphorus (mg/L)								
Potassium (mg/L)								
Silicon (mg/L)								
Silver (mg/L)								
Sodium (mg/L)								
Strontium (mg/L)								
Sulphate Dissolved (mg/L)								
Thallium (mg/L)								
Tin (mg/L)								
Titanium (mg/L)								
Total Hardness (mg/L CaCO3)								
Vanadium (mg/L)								
Zinc (mg/L)								
Zirconium (mg/L)								

2.2.8 Castledowns Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)								
Bromoform (µg/L)								
Chloroform (µg/L)								
Dibromochloromethane (µg/L)								
Dichlorobenzene (1,3) (µg/L)								
Dichloroethylene cis (1,2) (µg/L)								
Dichloroethylene trans (1,2) (µg/L)								
Dichloropropane (1,2) (µg/L)								
Methyl Isobutyl Ketone (MIBK) (µg/L)								
Methyl t-Butyl Ether (MTBE) (µg/L)								
Styrene (µg/L)								
Tetrachloroethane (1,1,2,2) (µg/L)								
Total Organic Carbon (mg/L)								
Total Volatile Organics (Non THM) (µg/L)								
Trichlorobenzene (1,2,4) (µg/L)								
Trichloroethane (1,1,1) (µg/L)								
Xylene (1,2) (µg/L)								
Xylene (1,4) (µg/L)								

2.2.9 Clareview Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	0.9	0.9	1	0.9	0.9	(15.0)	<10.0
Conductivity (µS/cm)	1	366.0	366.0	1	366.0	366.0		
pH	1	8	8	1	8	8		7 - 8
Turbidity (NTU)	16	0.10	0.08 - 0.12	4	0.10	0.08 - 0.12	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.055	0.055	1	0.055	0.055	2.000	
Beryllium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Boron (mg/L)	1	0.008	0.008	1	0.008	0.008	5.000	
Bromate Dissolved (mg/L)	1	<0.003	<0.003	1	<0.003	<0.003	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002	0.00700	
Chlorate dissolved (mg/L)	1	0.1	0.1	1	0.1	0.1	1.0	
Chlorine total (mg/L)	4	1.94	1.91 - 1.99	4	1.94	1.91 - 1.99		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.2	<0.2	1	<0.2	<0.2	1.0	
Chromium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.66	0.66	1	0.66	0.66	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.10	0.10	1	0.10	0.10	10.00	
Nitrite (as N) dissolved (mg/L)	1	0.01	0.01	1	0.01	0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	1	0.0002	0.0002	0.0500	
Uranium (mg/L)	1	0.0005	0.0005	1	0.0005	0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	13.6	13.6	1	13.6	13.6	100.0	<50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	90.0 (20.0)	

2.2.9 Clareview Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	123.0	123.0	1	123.0	123.0		
Aluminum (mg/L)	1	0.076	0.076	1	0.076	0.076	2.900 (0.100)	
Ammonia as NH3 (mg/L)	4	0.16	0.15 - 0.16	4	0.16	0.15 - 0.16		
Bromide Dissolved (mg/L)	1	<0.05	<0.05	1	<0.05	<0.05		
Calcium (mg/L)	1	46.7	46.7	1	46.7	46.7		
Calcium Hardness (mg/L CaCO3)	1	117.0	117.0	1	117.0	117.0		
Chloride Dissolved (mg/L)	1	5.14	5.14	1	5.14	5.14	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	0.010	0.010	1	0.010	0.010	(0.300)	
Lithium (mg/L)	1	0.0030	0.0030	1	0.0030	0.0030		
Magnesium (mg/L)	1	14.8	14.8	1	14.8	14.8		
Manganese (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0006	0.0006	1	0.0006	0.0006		
Nickel (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Phosphorus (mg/L)	1	0.93	0.93	1	0.93	0.93		
Potassium (mg/L)	1	0.7	0.7	1	0.7	0.7		
Silicon (mg/L)	1	1.92	1.92	1	1.92	1.92		
Silver (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002		
Sodium (mg/L)	1	6.5	6.5	1	6.5	6.5	(200.0)	
Strontium (mg/L)	1	0.479	0.479	1	0.479	0.479	7.000	
Sulphate Dissolved (mg/L)	1	60.8	60.8	1	60.8	60.8	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	178.0	178.0	1	178.0	178.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	1	<0.001	<0.001		

2.2.9 Clareview Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	0.9	0.9	1	0.9	0.9		
Bromoform (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Chloroform (µg/L)	1	12.7	12.7	1	12.7	12.7		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	1.0	1.0	1	1.0	1.0		
Total Volatile Organics (Non THM) (µg/L)	1	2.5	2.5	1	2.5	2.5		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		

2.2.10 Discovery Park Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	0.8	0.8	1	0.8	0.8	(15.0)	<10.0
Conductivity (µS/cm)	1	371.0	371.0	1	371.0	371.0		
pH	1	8	8	1	8	8		7 - 8
Turbidity (NTU)	16	0.32	0.15 - 0.65	4	0.32	0.15 - 0.65	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.059	0.059	1	0.059	0.059	2.000	
Beryllium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Boron (mg/L)	1	0.008	0.008	1	0.008	0.008	5.000	
Bromate Dissolved (mg/L)	1	<0.003	<0.003	1	<0.003	<0.003	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002	0.00700	
Chlorate dissolved (mg/L)	1	<0.1	<0.1	1	<0.1	<0.1	1.0	
Chlorine total (mg/L)	4	1.75	1.68 - 1.87	4	1.75	1.68 - 1.87		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.2	<0.2	1	<0.2	<0.2	1.0	
Chromium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.68	0.68	1	0.68	0.68	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.10	0.10	1	0.10	0.10	10.00	
Nitrite (as N) dissolved (mg/L)	1	<0.01	<0.01	1	<0.01	<0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	1	0.0003	0.0003	0.0500	
Uranium (mg/L)	1	0.0005	0.0005	1	0.0005	0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	12.6	12.6	1	12.6	12.6	100.0	<50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	90.0 (20.0)	

2.2.10 Discovery Park Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	117.0	117.0	1	117.0	117.0		
Aluminum (mg/L)	1	0.168	0.168	1	0.168	0.168	2.900 (0.100)	
Ammonia as NH3 (mg/L)	4	0.14	0.12 - 0.16	4	0.14	0.12 - 0.16		
Bromide Dissolved (mg/L)	1	<0.05	<0.05	1	<0.05	<0.05		
Calcium (mg/L)	1	46.6	46.6	1	46.6	46.6		
Calcium Hardness (mg/L CaCO3)	1	116.0	116.0	1	116.0	116.0		
Chloride Dissolved (mg/L)	1	5.70	5.70	1	5.70	5.70	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	0.005	0.005	1	0.005	0.005	(0.300)	
Lithium (mg/L)	1	0.0030	0.0030	1	0.0030	0.0030		
Magnesium (mg/L)	1	14.9	14.9	1	14.9	14.9		
Manganese (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0006	0.0006	1	0.0006	0.0006		
Nickel (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Phosphorus (mg/L)	1	1.04	1.04	1	1.04	1.04		
Potassium (mg/L)	1	0.7	0.7	1	0.7	0.7		
Silicon (mg/L)	1	1.92	1.92	1	1.92	1.92		
Silver (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002		
Sodium (mg/L)	1	6.7	6.7	1	6.7	6.7	(200.0)	
Strontium (mg/L)	1	0.480	0.480	1	0.480	0.480	7.000	
Sulphate Dissolved (mg/L)	1	61.7	61.7	1	61.7	61.7	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	178.0	178.0	1	178.0	178.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	1	<0.001	<0.001		

2.2.10 Discovery Park Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	0.8	0.8	1	0.8	0.8		
Bromoform (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Chloroform (µg/L)	1	11.4	11.4	1	11.4	11.4		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	0.9	0.9	1	0.9	0.9		
Total Volatile Organics (Non THM) (µg/L)	1	1.9	1.9	1	1.9	1.9		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		

2.2.11 Kaskitayo Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	1.3	1.3	1	1.3	1.3	(15.0)	<10.0
Conductivity (µS/cm)	1	375.0	375.0	1	375.0	375.0		
pH	1	8	8	1	8	8		7 - 8
Turbidity (NTU)	16	0.09	0.07 - 0.10	4	0.09	0.07 - 0.10	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.057	0.057	1	0.057	0.057	2.000	
Beryllium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Boron (mg/L)	1	0.008	0.008	1	0.008	0.008	5.000	
Bromate Dissolved (mg/L)	1	<0.003	<0.003	1	<0.003	<0.003	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002	0.00700	
Chlorate dissolved (mg/L)	1	<0.1	<0.1	1	<0.1	<0.1	1.0	
Chlorine total (mg/L)	4	2.07	2.01 - 2.10	4	2.07	2.01 - 2.10		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.2	<0.2	1	<0.2	<0.2	1.0	
Chromium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.70	0.70	1	0.70	0.70	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.10	0.10	1	0.10	0.10	10.00	
Nitrite (as N) dissolved (mg/L)	1	0.01	0.01	1	0.01	0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	1	0.0003	0.0003	0.0500	
Uranium (mg/L)	1	0.0005	0.0005	1	0.0005	0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	9.4	9.4	1	9.4	9.4	100.0	<50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	90.0 (20.0)	

2.2.11 Kaskitayo Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	116.0	116.0	1	116.0	116.0		
Aluminum (mg/L)	1	0.094	0.094	1	0.094	0.094	2.900 (0.100)	
Ammonia as NH3 (mg/L)	4	0.10	0.07 - 0.12	4	0.10	0.07 - 0.12		
Bromide Dissolved (mg/L)								
Calcium (mg/L)	1	48.0	48.0	1	48.0	48.0		
Calcium Hardness (mg/L CaCO3)	1	120.0	120.0	1	120.0	120.0		
Chloride Dissolved (mg/L)	1	5.43	5.43	1	5.43	5.43	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(0.300)	
Lithium (mg/L)	1	0.0031	0.0031	1	0.0031	0.0031		
Magnesium (mg/L)	1	14.9	14.9	1	14.9	14.9		
Manganese (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0006	0.0006	1	0.0006	0.0006		
Nickel (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Phosphorus (mg/L)	1	1.01	1.01	1	1.01	1.01		
Potassium (mg/L)	1	0.7	0.7	1	0.7	0.7		
Silicon (mg/L)	1	1.99	1.99	1	1.99	1.99		
Silver (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002		
Sodium (mg/L)	1	6.6	6.6	1	6.6	6.6	(200.0)	
Strontium (mg/L)	1	0.483	0.483	1	0.483	0.483	7.000	
Sulphate Dissolved (mg/L)	1	61.0	61.0	1	61.0	61.0	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	181.0	181.0	1	181.0	181.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	1	<0.001	<0.001		

2.2.11 Kaskitayo Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	0.8	0.8	1	0.8	0.8		
Bromoform (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Chloroform (µg/L)	1	8.2	8.2	1	8.2	8.2		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	0.9	0.9	1	0.9	0.9		
Total Volatile Organics (Non THM) (µg/L)	1	2.8	2.8	1	2.8	2.8		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		

2.2.12 Londonderry Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)								
Conductivity (µS/cm)								
pH								
Turbidity (NTU)	16	0.10	0.09 - 0.11	4	0.10	0.09 - 0.11	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)								
Arsenic (mg/L)								
Barium (mg/L)								
Beryllium (mg/L)								
Boron (mg/L)								
Bromate Dissolved (mg/L)								
Cadmium (mg/L)								
Chlorate dissolved (mg/L)								
Chlorine total (mg/L)	4	1.98	1.96 - 2.01	4	1.98	1.96 - 2.01		1.00 - 2.40
Chlorite Dissolved (mg/L)								
Chromium (mg/L)								
Fluoride (mg/L)								
Lead (mg/L)								
Mercury (mg/L)								
Nitrate (as N) dissolved (mg/L)								
Nitrite (as N) dissolved (mg/L)								
Selenium (mg/L)								
Uranium (mg/L)								
Primary Organics								
Benzene (µg/L)								
Carbon Tetrachloride (µg/L)								
Chlorobenzene (µg/L)								
Dichlorobenzene (1,2) (µg/L)								
Dichlorobenzene (1,4) (µg/L)								
Dichloroethane (1,2) (µg/L)								
Dichloroethylene (1,1) (µg/L)								
Ethylbenzene (µg/L)								
Methylene Chloride (Dichloromethane) (µg/L)								
Tetrachloroethylene (µg/L)								
Toluene (µg/L)								
Trichloroethylene (µg/L)								
Trihalomethanes (µg/L)								
Vinyl Chloride (µg/L)								
Xylenes total (µg/L)								

2.2.12 Londonderry Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)								
Aluminum (mg/L)								
Ammonia as NH3 (mg/L)	4	0.15	0.14 - 0.16	4	0.15	0.14 - 0.16		
Bromide Dissolved (mg/L)								
Calcium (mg/L)								
Calcium Hardness (mg/L CaCO3)								
Chloride Dissolved (mg/L)								
Cobalt (mg/L)								
Copper (mg/L)								
Iron (mg/L)								
Lithium (mg/L)								
Magnesium (mg/L)								
Manganese (mg/L)								
Molybdenum (mg/L)								
Nickel (mg/L)								
Phosphorus (mg/L)								
Potassium (mg/L)								
Silicon (mg/L)								
Silver (mg/L)								
Sodium (mg/L)								
Strontium (mg/L)								
Sulphate Dissolved (mg/L)								
Thallium (mg/L)								
Tin (mg/L)								
Titanium (mg/L)								
Total Hardness (mg/L CaCO3)								
Vanadium (mg/L)								
Zinc (mg/L)								
Zirconium (mg/L)								

2.2.12 Londonderry Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)								
Bromoform (µg/L)								
Chloroform (µg/L)								
Dibromochloromethane (µg/L)								
Dichlorobenzene (1,3) (µg/L)								
Dichloroethylene cis (1,2) (µg/L)								
Dichloroethylene trans (1,2) (µg/L)								
Dichloropropane (1,2) (µg/L)								
Methyl Isobutyl Ketone (MIBK) (µg/L)								
Methyl t-Butyl Ether (MTBE) (µg/L)								
Styrene (µg/L)								
Tetrachloroethane (1,1,2,2) (µg/L)								
Total Organic Carbon (mg/L)								
Total Volatile Organics (Non THM) (µg/L)								
Trichlorobenzene (1,2,4) (µg/L)								
Trichloroethane (1,1,1) (µg/L)								
Xylene (1,2) (µg/L)								
Xylene (1,4) (µg/L)								

2.2.13 Millwoods Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)								
Conductivity (µS/cm)								
pH								
Turbidity (NTU)	16	0.09	0.08 - 0.10	4	0.09	0.08 - 0.10	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)								
Arsenic (mg/L)								
Barium (mg/L)								
Beryllium (mg/L)								
Boron (mg/L)								
Bromate Dissolved (mg/L)								
Cadmium (mg/L)								
Chlorate dissolved (mg/L)								
Chlorine total (mg/L)	4	2.08	2.03 - 2.10	4	2.08	2.03 - 2.10		1.00 - 2.40
Chlorite Dissolved (mg/L)								
Chromium (mg/L)								
Fluoride (mg/L)								
Lead (mg/L)								
Mercury (mg/L)								
Nitrate (as N) dissolved (mg/L)								
Nitrite (as N) dissolved (mg/L)								
Selenium (mg/L)								
Uranium (mg/L)								
Primary Organics								
Benzene (µg/L)								
Carbon Tetrachloride (µg/L)								
Chlorobenzene (µg/L)								
Dichlorobenzene (1,2) (µg/L)								
Dichlorobenzene (1,4) (µg/L)								
Dichloroethane (1,2) (µg/L)								
Dichloroethylene (1,1) (µg/L)								
Ethylbenzene (µg/L)								
Methylene Chloride (Dichloromethane) (µg/L)								
Tetrachloroethylene (µg/L)								
Toluene (µg/L)								
Trichloroethylene (µg/L)								
Trihalomethanes (µg/L)								
Vinyl Chloride (µg/L)								
Xylenes total (µg/L)								

2.2.13 Millwoods Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)								
Aluminum (mg/L)								
Ammonia as NH3 (mg/L)	3	0.12	0.11 - 0.13	3	0.12	0.11 - 0.13		
Bromide Dissolved (mg/L)								
Calcium (mg/L)								
Calcium Hardness (mg/L CaCO3)								
Chloride Dissolved (mg/L)								
Cobalt (mg/L)								
Copper (mg/L)								
Iron (mg/L)								
Lithium (mg/L)								
Magnesium (mg/L)								
Manganese (mg/L)								
Molybdenum (mg/L)								
Nickel (mg/L)								
Phosphorus (mg/L)								
Potassium (mg/L)								
Silicon (mg/L)								
Silver (mg/L)								
Sodium (mg/L)								
Strontium (mg/L)								
Sulphate Dissolved (mg/L)								
Thallium (mg/L)								
Tin (mg/L)								
Titanium (mg/L)								
Total Hardness (mg/L CaCO3)								
Vanadium (mg/L)								
Zinc (mg/L)								
Zirconium (mg/L)								

2.2.13 Millwoods Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)								
Bromoform (µg/L)								
Chloroform (µg/L)								
Dibromochloromethane (µg/L)								
Dichlorobenzene (1,3) (µg/L)								
Dichloroethylene cis (1,2) (µg/L)								
Dichloroethylene trans (1,2) (µg/L)								
Dichloropropane (1,2) (µg/L)								
Methyl Isobutyl Ketone (MIBK) (µg/L)								
Methyl t-Butyl Ether (MTBE) (µg/L)								
Styrene (µg/L)								
Tetrachloroethane (1,1,2,2) (µg/L)								
Total Organic Carbon (mg/L)								
Total Volatile Organics (Non THM) (µg/L)								
Trichlorobenzene (1,2,4) (µg/L)								
Trichloroethane (1,1,1) (µg/L)								
Xylene (1,2) (µg/L)								
Xylene (1,4) (µg/L)								

2.2.14 North Jasper Place Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	1.5	1.5	1	1.5	1.5	(15.0)	<10.0
Conductivity (µS/cm)	1	378.0	378.0	1	378.0	378.0		
pH	1	8	8	1	8	8		7 - 8
Turbidity (NTU)	16	0.11	0.09 - 0.13	4	0.11	0.09 - 0.13	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.057	0.057	1	0.057	0.057	2.000	
Beryllium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Boron (mg/L)	1	0.008	0.008	1	0.008	0.008	5.000	
Bromate Dissolved (mg/L)	1	<0.003	<0.003	1	<0.003	<0.003	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002	0.00700	
Chlorate dissolved (mg/L)	1	<0.1	<0.1	1	<0.1	<0.1	1.0	
Chlorine total (mg/L)	4	1.88	1.74 - 2.18	4	1.88	1.74 - 2.18		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.2	<0.2	1	<0.2	<0.2	1.0	
Chromium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.65	0.65	1	0.65	0.65	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.11	0.11	1	0.11	0.11	10.00	
Nitrite (as N) dissolved (mg/L)	1	0.01	0.01	1	0.01	0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	1	0.0002	0.0002	0.0500	
Uranium (mg/L)	1	0.0005	0.0005	1	0.0005	0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	11.9	11.9	1	11.9	11.9	100.0	<50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	90.0 (20.0)	

2.2.14 North Jasper Place Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	2	118.5	117.0 - 120.0	2	118.5	117.0 - 120.0		
Aluminum (mg/L)	2	0.132	0.095 - 0.168	2	0.132	0.095 - 0.168	2.900 (0.100)	
Ammonia as NH3 (mg/L)	8	0.14	0.11 - 0.16	8	0.14	0.11 - 0.16		
Bromide Dissolved (mg/L)	2	<0.05	<0.05	2	<0.05	<0.05		
Calcium (mg/L)	2	46.3	45.9 - 46.6	2	46.3	45.9 - 46.6		
Calcium Hardness (mg/L CaCO3)	2	115.5	115.0 - 116.0	2	115.5	115.0 - 116.0		
Chloride Dissolved (mg/L)	2	5.68	5.65 - 5.70	2	5.68	5.65 - 5.70	(250.00)	
Cobalt (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002		
Copper (mg/L)	2	<0.002	<0.002	2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	2	0.005	<0.005	2	0.005	<0.005 - 0.005	(0.300)	
Lithium (mg/L)	2	0.0030	0.0029 - 0.0030	2	0.0030	0.0029 - 0.0030		
Magnesium (mg/L)	2	14.8	14.7 - 14.9	2	14.8	14.7 - 14.9		
Manganese (mg/L)	2	<0.002	<0.002	2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	2	0.0006	0.0006	2	0.0006	0.0006		
Nickel (mg/L)	2	<0.0005	<0.0005	2	<0.0005	<0.0005		
Phosphorus (mg/L)	2	1.00	0.96 - 1.04	2	1.00	0.96 - 1.04		
Potassium (mg/L)	2	0.7	0.7	2	0.7	0.7		
Silicon (mg/L)	2	1.91	1.90 - 1.92	2	1.91	1.90 - 1.92		
Silver (mg/L)	2	<0.00002	<0.00002	2	<0.00002	<0.00002		
Sodium (mg/L)	2	6.7	6.6 - 6.7	2	6.7	6.6 - 6.7	(200.0)	
Strontium (mg/L)	2	0.474	0.467 - 0.480	2	0.474	0.467 - 0.480	7.000	
Sulphate Dissolved (mg/L)	2	61.6	61.5 - 61.7	2	61.6	61.5 - 61.7	(500.0)	
Thallium (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002		
Tin (mg/L)	2	<0.0005	<0.0005	2	<0.0005	<0.0005		
Titanium (mg/L)	2	<0.0005	<0.0005	2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	2	176.5	175.0 - 178.0	2	176.5	175.0 - 178.0		
Vanadium (mg/L)	2	<0.0005	<0.0005	2	<0.0005	<0.0005		
Zinc (mg/L)	2	<0.005	<0.005	2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	2	<0.001	<0.001	2	<0.001	<0.001		

2.2.14 North Jasper Place Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	0.8	0.8	1	0.8	0.8		
Bromoform (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Chloroform (µg/L)	1	10.7	10.7	1	10.7	10.7		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	1.0	1.0	1	1.0	1.0		
Total Volatile Organics (Non THM) (µg/L)	1	1.9	1.9	1	1.9	1.9		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		

2.2.15 Ormsby Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)								
Conductivity (µS/cm)								
pH								
Turbidity (NTU)	16	0.09	0.08 - 0.11	4	0.09	0.08 - 0.11	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)								
Arsenic (mg/L)								
Barium (mg/L)								
Beryllium (mg/L)								
Boron (mg/L)								
Bromate Dissolved (mg/L)								
Cadmium (mg/L)								
Chlorate dissolved (mg/L)								
Chlorine total (mg/L)	4	2.09	2.05 - 2.11	4	2.09	2.05 - 2.11		1.00 - 2.40
Chlorite Dissolved (mg/L)								
Chromium (mg/L)								
Fluoride (mg/L)								
Lead (mg/L)								
Mercury (mg/L)								
Nitrate (as N) dissolved (mg/L)								
Nitrite (as N) dissolved (mg/L)								
Selenium (mg/L)								
Uranium (mg/L)								
Primary Organics								
Benzene (µg/L)								
Carbon Tetrachloride (µg/L)								
Chlorobenzene (µg/L)								
Dichlorobenzene (1,2) (µg/L)								
Dichlorobenzene (1,4) (µg/L)								
Dichloroethane (1,2) (µg/L)								
Dichloroethylene (1,1) (µg/L)								
Ethylbenzene (µg/L)								
Methylene Chloride (Dichloromethane) (µg/L)								
Tetrachloroethylene (µg/L)								
Toluene (µg/L)								
Trichloroethylene (µg/L)								
Trihalomethanes (µg/L)								
Vinyl Chloride (µg/L)								
Xylenes total (µg/L)								

2.2.15 Ormsby Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)								
Aluminum (mg/L)								
Ammonia as NH3 (mg/L)	4	0.13	0.12 - 0.13	4	0.13	0.12 - 0.13		
Bromide Dissolved (mg/L)								
Calcium (mg/L)								
Calcium Hardness (mg/L CaCO3)								
Chloride Dissolved (mg/L)								
Cobalt (mg/L)								
Copper (mg/L)								
Iron (mg/L)								
Lithium (mg/L)								
Magnesium (mg/L)								
Manganese (mg/L)								
Molybdenum (mg/L)								
Nickel (mg/L)								
Phosphorus (mg/L)								
Potassium (mg/L)								
Silicon (mg/L)								
Silver (mg/L)								
Sodium (mg/L)								
Strontium (mg/L)								
Sulphate Dissolved (mg/L)								
Thallium (mg/L)								
Tin (mg/L)								
Titanium (mg/L)								
Total Hardness (mg/L CaCO3)								
Vanadium (mg/L)								
Zinc (mg/L)								
Zirconium (mg/L)								

2.2.15 Ormsby Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)								
Bromoform (µg/L)								
Chloroform (µg/L)								
Dibromochloromethane (µg/L)								
Dichlorobenzene (1,3) (µg/L)								
Dichloroethylene cis (1,2) (µg/L)								
Dichloroethylene trans (1,2) (µg/L)								
Dichloropropane (1,2) (µg/L)								
Methyl Isobutyl Ketone (MIBK) (µg/L)								
Methyl t-Butyl Ether (MTBE) (µg/L)								
Styrene (µg/L)								
Tetrachloroethane (1,1,2,2) (µg/L)								
Total Organic Carbon (mg/L)								
Total Volatile Organics (Non THM) (µg/L)								
Trichlorobenzene (1,2,4) (µg/L)								
Trichloroethane (1,1,1) (µg/L)								
Xylene (1,2) (µg/L)								
Xylene (1,4) (µg/L)								

2.2.16 Papaschase Reservoir 1

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)								
Conductivity (µS/cm)								
pH								
Turbidity (NTU)	16	0.10	0.09 - 0.11	4	0.10	0.09 - 0.11	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)								
Arsenic (mg/L)								
Barium (mg/L)								
Beryllium (mg/L)								
Boron (mg/L)								
Bromate Dissolved (mg/L)								
Cadmium (mg/L)								
Chlorate dissolved (mg/L)								
Chlorine total (mg/L)	4	1.85	1.82 - 1.88	4	1.85	1.82 - 1.88		1.00 - 2.40
Chlorite Dissolved (mg/L)								
Chromium (mg/L)								
Fluoride (mg/L)								
Lead (mg/L)								
Mercury (mg/L)								
Nitrate (as N) dissolved (mg/L)								
Nitrite (as N) dissolved (mg/L)								
Selenium (mg/L)								
Uranium (mg/L)								
Primary Organics								
Benzene (µg/L)								
Carbon Tetrachloride (µg/L)								
Chlorobenzene (µg/L)								
Dichlorobenzene (1,2) (µg/L)								
Dichlorobenzene (1,4) (µg/L)								
Dichloroethane (1,2) (µg/L)								
Dichloroethylene (1,1) (µg/L)								
Ethylbenzene (µg/L)								
Methylene Chloride (Dichloromethane) (µg/L)								
Tetrachloroethylene (µg/L)								
Toluene (µg/L)								
Trichloroethylene (µg/L)								
Trihalomethanes (µg/L)								
Vinyl Chloride (µg/L)								
Xylenes total (µg/L)								

2.2.16 Papaschase Reservoir 1

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)								
Aluminum (mg/L)								
Ammonia as NH3 (mg/L)	3	0.16	0.15 - 0.16	3	0.16	0.15 - 0.16		
Bromide Dissolved (mg/L)								
Calcium (mg/L)								
Calcium Hardness (mg/L CaCO3)								
Chloride Dissolved (mg/L)								
Cobalt (mg/L)								
Copper (mg/L)								
Iron (mg/L)								
Lithium (mg/L)								
Magnesium (mg/L)								
Manganese (mg/L)								
Molybdenum (mg/L)								
Nickel (mg/L)								
Phosphorus (mg/L)								
Potassium (mg/L)								
Silicon (mg/L)								
Silver (mg/L)								
Sodium (mg/L)								
Strontium (mg/L)								
Sulphate Dissolved (mg/L)								
Thallium (mg/L)								
Tin (mg/L)								
Titanium (mg/L)								
Total Hardness (mg/L CaCO3)								
Vanadium (mg/L)								
Zinc (mg/L)								
Zirconium (mg/L)								

2.2.16 Papaschase Reservoir 1

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)								
Bromoform (µg/L)								
Chloroform (µg/L)								
Dibromochloromethane (µg/L)								
Dichlorobenzene (1,3) (µg/L)								
Dichloroethylene cis (1,2) (µg/L)								
Dichloroethylene trans (1,2) (µg/L)								
Dichloropropane (1,2) (µg/L)								
Methyl Isobutyl Ketone (MIBK) (µg/L)								
Methyl t-Butyl Ether (MTBE) (µg/L)								
Styrene (µg/L)								
Tetrachloroethane (1,1,2,2) (µg/L)								
Total Organic Carbon (mg/L)								
Total Volatile Organics (Non THM) (µg/L)								
Trichlorobenzene (1,2,4) (µg/L)								
Trichloroethane (1,1,1) (µg/L)								
Xylene (1,2) (µg/L)								
Xylene (1,4) (µg/L)								

2.2.17 Papaschase Reservoir 2

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	0.8	0.8	1	0.8	0.8	(15.0)	<10.0
Conductivity (µS/cm)	1	371.0	371.0	1	371.0	371.0		
pH	1	8	8	1	8	8		7 - 8
Turbidity (NTU)	16	0.09	0.08 - 0.10	4	0.09	0.08 - 0.10	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.057	0.057	1	0.057	0.057	2.000	
Beryllium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Boron (mg/L)	1	0.008	0.008	1	0.008	0.008	5.000	
Bromate Dissolved (mg/L)	1	<0.003	<0.003	1	<0.003	<0.003	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002	0.00700	
Chlorate dissolved (mg/L)	1	0.1	0.1	1	0.1	0.1	1.0	
Chlorine total (mg/L)	4	2.01	1.99 - 2.05	4	2.01	1.99 - 2.05		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.2	<0.2	1	<0.2	<0.2	1.0	
Chromium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.72	0.72	1	0.72	0.72	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.10	0.10	1	0.10	0.10	10.00	
Nitrite (as N) dissolved (mg/L)	1	0.01	0.01	1	0.01	0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	1	0.0003	0.0003	0.0500	
Uranium (mg/L)	1	0.0005	0.0005	1	0.0005	0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	12.5	12.5	1	12.5	12.5	100.0	<50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	90.0 (20.0)	

2.2.17 Papaschase Reservoir 2

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	118.0	118.0	1	118.0	118.0		
Aluminum (mg/L)	1	0.083	0.083	1	0.083	0.083	2.900 (0.100)	
Ammonia as NH3 (mg/L)	4	0.13	0.10 - 0.14	4	0.13	0.10 - 0.14		
Bromide Dissolved (mg/L)	1	<0.05	<0.05	1	<0.05	<0.05		
Calcium (mg/L)	1	46.3	46.3	1	46.3	46.3		
Calcium Hardness (mg/L CaCO3)	1	116.0	116.0	1	116.0	116.0		
Chloride Dissolved (mg/L)	1	4.96	4.96	1	4.96	4.96	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(0.300)	
Lithium (mg/L)	1	0.0030	0.0030	1	0.0030	0.0030		
Magnesium (mg/L)	1	14.9	14.9	1	14.9	14.9		
Manganese (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0006	0.0006	1	0.0006	0.0006		
Nickel (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Phosphorus (mg/L)	1	0.94	0.94	1	0.94	0.94		
Potassium (mg/L)	1	0.7	0.7	1	0.7	0.7		
Silicon (mg/L)	1	1.89	1.89	1	1.89	1.89		
Silver (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002		
Sodium (mg/L)	1	6.3	6.3	1	6.3	6.3	(200.0)	
Strontium (mg/L)	1	0.483	0.483	1	0.483	0.483	7.000	
Sulphate Dissolved (mg/L)	1	60.1	60.1	1	60.1	60.1	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	177.0	177.0	1	177.0	177.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	1	<0.001	<0.001		

2.2.17 Papaschase Reservoir 2

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	0.9	0.9	1	0.9	0.9		
Bromoform (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Chloroform (µg/L)	1	11.2	11.2	1	11.2	11.2		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	0.9	0.9	1	0.9	0.9		
Total Volatile Organics (Non THM) (µg/L)	1	2.0	2.0	1	2.0	2.0		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		

2.2.18 Rosslyn Reservoir 1

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)								
Conductivity (µS/cm)								
pH								
Turbidity (NTU)	16	0.09	0.08 - 0.10	4	0.09	0.08 - 0.10	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)								
Arsenic (mg/L)								
Barium (mg/L)								
Beryllium (mg/L)								
Boron (mg/L)								
Bromate Dissolved (mg/L)								
Cadmium (mg/L)								
Chlorate dissolved (mg/L)								
Chlorine total (mg/L)	4	1.90	1.82 - 1.95	4	1.90	1.82 - 1.95		1.00 - 2.40
Chlorite Dissolved (mg/L)								
Chromium (mg/L)								
Fluoride (mg/L)								
Lead (mg/L)								
Mercury (mg/L)								
Nitrate (as N) dissolved (mg/L)								
Nitrite (as N) dissolved (mg/L)								
Selenium (mg/L)								
Uranium (mg/L)								
Primary Organics								
Benzene (µg/L)								
Carbon Tetrachloride (µg/L)								
Chlorobenzene (µg/L)								
Dichlorobenzene (1,2) (µg/L)								
Dichlorobenzene (1,4) (µg/L)								
Dichloroethane (1,2) (µg/L)								
Dichloroethylene (1,1) (µg/L)								
Ethylbenzene (µg/L)								
Methylene Chloride (Dichloromethane) (µg/L)								
Tetrachloroethylene (µg/L)								
Toluene (µg/L)								
Trichloroethylene (µg/L)								
Trihalomethanes (µg/L)								
Vinyl Chloride (µg/L)								
Xylenes total (µg/L)								

2.2.18 Rosslyn Reservoir 1

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)								
Aluminum (mg/L)								
Ammonia as NH3 (mg/L)	4	0.16	0.15 - 0.16	4	0.16	0.15 - 0.16		
Bromide Dissolved (mg/L)								
Calcium (mg/L)								
Calcium Hardness (mg/L CaCO3)								
Chloride Dissolved (mg/L)								
Cobalt (mg/L)								
Copper (mg/L)								
Iron (mg/L)								
Lithium (mg/L)								
Magnesium (mg/L)								
Manganese (mg/L)								
Molybdenum (mg/L)								
Nickel (mg/L)								
Phosphorus (mg/L)								
Potassium (mg/L)								
Silicon (mg/L)								
Silver (mg/L)								
Sodium (mg/L)								
Strontium (mg/L)								
Sulphate Dissolved (mg/L)								
Thallium (mg/L)								
Tin (mg/L)								
Titanium (mg/L)								
Total Hardness (mg/L CaCO3)								
Vanadium (mg/L)								
Zinc (mg/L)								
Zirconium (mg/L)								

2.2.18 Rosslyn Reservoir 1

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)								
Bromoform (µg/L)								
Chloroform (µg/L)								
Dibromochloromethane (µg/L)								
Dichlorobenzene (1,3) (µg/L)								
Dichloroethylene cis (1,2) (µg/L)								
Dichloroethylene trans (1,2) (µg/L)								
Dichloropropane (1,2) (µg/L)								
Methyl Isobutyl Ketone (MIBK) (µg/L)								
Methyl t-Butyl Ether (MTBE) (µg/L)								
Styrene (µg/L)								
Tetrachloroethane (1,1,2,2) (µg/L)								
Total Organic Carbon (mg/L)								
Total Volatile Organics (Non THM) (µg/L)								
Trichlorobenzene (1,2,4) (µg/L)								
Trichloroethane (1,1,1) (µg/L)								
Xylene (1,2) (µg/L)								
Xylene (1,4) (µg/L)								

2.2.19 Rosslyn Reservoir 2

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	0.7	0.7	1	0.7	0.7	(15.0)	<10.0
Conductivity (µS/cm)	1	385.0	385.0	1	385.0	385.0		
pH	1	8	8	1	8	8		7 - 8
Turbidity (NTU)	16	0.10	0.09 - 0.11	4	0.10	0.09 - 0.11	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.058	0.058	1	0.058	0.058	2.000	
Beryllium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Boron (mg/L)	1	0.008	0.008	1	0.008	0.008	5.000	
Bromate Dissolved (mg/L)	1	<0.003	<0.003	1	<0.003	<0.003	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002	0.00700	
Chlorate dissolved (mg/L)	1	0.1	0.1	1	0.1	0.1	1.0	
Chlorine total (mg/L)	4	1.79	1.68 - 1.84	4	1.79	1.68 - 1.84		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.2	<0.2	1	<0.2	<0.2	1.0	
Chromium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.64	0.64	1	0.64	0.64	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.10	0.10	1	0.10	0.10	10.00	
Nitrite (as N) dissolved (mg/L)	1	0.01	0.01	1	0.01	0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	1	0.0003	0.0003	0.0500	
Uranium (mg/L)	1	0.0005	0.0005	1	0.0005	0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	13.3	13.3	1	13.3	13.3	100.0	<50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	90.0 (20.0)	

2.2.19 Rosslyn Reservoir 2

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	121.0	121.0	1	121.0	121.0		
Aluminum (mg/L)	1	0.074	0.074	1	0.074	0.074	2.900 (0.100)	
Ammonia as NH3 (mg/L)	4	0.17	0.16 - 0.18	4	0.17	0.16 - 0.18		
Bromide Dissolved (mg/L)	1	<0.05	<0.05	1	<0.05	<0.05		
Calcium (mg/L)	1	47.5	47.5	1	47.5	47.5		
Calcium Hardness (mg/L CaCO3)	1	118.0	118.0	1	118.0	118.0		
Chloride Dissolved (mg/L)	1	5.44	5.44	1	5.44	5.44	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(0.300)	
Lithium (mg/L)	1	0.0031	0.0031	1	0.0031	0.0031		
Magnesium (mg/L)	1	14.9	14.9	1	14.9	14.9		
Manganese (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0006	0.0006	1	0.0006	0.0006		
Nickel (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Phosphorus (mg/L)	1	0.95	0.95	1	0.95	0.95		
Potassium (mg/L)	1	0.7	0.7	1	0.7	0.7		
Silicon (mg/L)	1	1.91	1.91	1	1.91	1.91		
Silver (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002		
Sodium (mg/L)	1	6.7	6.7	1	6.7	6.7	(200.0)	
Strontium (mg/L)	1	0.478	0.478	1	0.478	0.478	7.000	
Sulphate Dissolved (mg/L)	1	61.3	61.3	1	61.3	61.3	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	180.0	180.0	1	180.0	180.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	1	<0.001	<0.001		

2.2.19 Rosslyn Reservoir 2

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	1.2	1.2	1	1.2	1.2		
Bromoform (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Chloroform (µg/L)	1	12.1	12.1	1	12.1	12.1		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	1.0	1.0	1	1.0	1.0		
Total Volatile Organics (Non THM) (µg/L)	1	2.4	2.4	1	2.4	2.4		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		

2.2.20 Thorncliff Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	0.6	0.6	1	0.6	0.6	(15.0)	<10.0
Conductivity (µS/cm)	1	377.0	377.0	1	377.0	377.0		
pH	1	8	8	1	8	8		7 - 8
Turbidity (NTU)	16	0.09	0.07 - 0.10	4	0.09	0.07 - 0.10	(3.00)	<0.10
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.057	0.057	1	0.057	0.057	2.000	
Beryllium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Boron (mg/L)	1	0.008	0.008	1	0.008	0.008	5.000	
Bromate Dissolved (mg/L)	1	<0.003	<0.003	1	<0.003	<0.003	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002	0.00700	
Chlorate dissolved (mg/L)	1	<0.1	<0.1	1	<0.1	<0.1	1.0	
Chlorine total (mg/L)	4	1.91	1.86 - 1.94	4	1.91	1.86 - 1.94		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.2	<0.2	1	<0.2	<0.2	1.0	
Chromium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.64	0.64	1	0.64	0.64	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.11	0.11	1	0.11	0.11	10.00	
Nitrite (as N) dissolved (mg/L)	1	<0.01	<0.01	1	<0.01	<0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	1	0.0002	0.0002	0.0500	
Uranium (mg/L)	1	0.0005	0.0005	1	0.0005	0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	12.2	12.2	1	12.2	12.2	100.0	<50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0	90.0 (20.0)	

2.2.20 Thorncliff Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	118.0	118.0	1	118.0	118.0		
Aluminum (mg/L)	1	0.095	0.095	1	0.095	0.095	2.900 (0.100)	
Ammonia as NH3 (mg/L)	4	0.14	0.13 - 0.14	4	0.14	0.13 - 0.14		
Bromide Dissolved (mg/L)	1	<0.05	<0.05	1	<0.05	<0.05		
Calcium (mg/L)	1	46.5	46.5	1	46.5	46.5		
Calcium Hardness (mg/L CaCO3)	1	116.0	116.0	1	116.0	116.0		
Chloride Dissolved (mg/L)	1	5.65	5.65	1	5.65	5.65	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(0.300)	
Lithium (mg/L)	1	0.0029	0.0029	1	0.0029	0.0029		
Magnesium (mg/L)	1	14.8	14.8	1	14.8	14.8		
Manganese (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0006	0.0006	1	0.0006	0.0006		
Nickel (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Phosphorus (mg/L)	1	0.94	0.94	1	0.94	0.94		
Potassium (mg/L)	1	0.7	0.7	1	0.7	0.7		
Silicon (mg/L)	1	1.87	1.87	1	1.87	1.87		
Silver (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002		
Sodium (mg/L)	1	6.6	6.6	1	6.6	6.6	(200.0)	
Strontium (mg/L)	1	0.475	0.475	1	0.475	0.475	7.000	
Sulphate Dissolved (mg/L)	1	61.6	61.6	1	61.6	61.6	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	177.0	177.0	1	177.0	177.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	1	<0.001	<0.001		

2.2.20 Thorncliff Reservoir

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	0.7	0.7	1	0.7	0.7		
Bromoform (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Chloroform (µg/L)	1	11.1	11.1	1	11.1	11.1		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	1	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	1.0	1.0	1	1.0	1.0		
Total Volatile Organics (Non THM) (µg/L)	1	2.0	2.0	1	2.0	2.0		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Microbiologicals						
Coliforms total (MPN/100 mL)	36	412.9	28.5 - 7308.0	36	412.9	28.5 - 7308.0
Coliforms total (PA/100mL)	1	+VE	+VE	1	+VE	+VE
Cryptosporidium (oocysts/100L)	2	17.0	1.6 - 32.3	2	<32.29	<1.64 - 32.3
E. coli (MPN/100 mL)	36	107.2	1.0 - 3328.0	36	107.2	1.0 - 3328.0
E. coli (PA/100mL)	1	+VE	+VE	1	+VE	+VE
Giardia (cysts/100L)	1	1.6	1.6	1	1.6	1.6
Giardia (cysts/100L)	1	32.29	32.29	1	32.29	32.29
Physical						
Colour (TCU)	62	3.0	2.4 - 4.3	62	3.0	2.4 - 4.3
Conductivity (µS/cm)	8	356.3	345.0 - 364.0	8	356.3	345.0 - 364.0
pH	2	8	8	2	8	8
Total Dissolved Solids (mg/L)	2	200.50	198.00 - 203.00	2	200.50	198.00 - 203.00
Total Suspended Solids (mg/L)	2	<2.5	<2.5	2	<2.5	<2.5
Turbidity (NTU)	248	1.77	1.12 - 3.61	62	1.77	1.12 - 3.61

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Primary Organics						
Benzene (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Carbon Tetrachloride (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Chlorobenzene (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Dichlorobenzene (1,2) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Dichlorobenzene (1,4) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Dichloroethane (1,2) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Dichloroethylene (1,1) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Ethylbenzene (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Methylene Chloride (Dichloromethane) (µg/L)	62	0.5	<0.5 - 1.0	62	<1.00	<0.5 - <1.00
Tetrachloroethylene (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Toluene (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Trichloroethylene (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Trihalomethanes (µg/L)	60	<1.0	<1.0	60	<1.0	<1.0
Trihalomethanes (THMs), Total (µg/L)	2	<1.0	<1.0	2	<1.0	<1.0
Vinyl Chloride (µg/L)	62	0.97	<0.50 - 1.00	62	<1.0	<0.50 - <1.0
Xylenes total (µg/L)	62	0.97	<0.50 - 1.00	62	<1.0	<0.50 - <1.0

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Primary Inorganics						
Antimony (mg/L)	2	<0.0005	<0.0005	2	<0.0005	<0.0005
Antimony dissolved (mg/L)	2	<0.0005	<0.0005	2	<0.0005	<0.0005
Arsenic (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Arsenic dissolved (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Barium (mg/L)	2	0.057	0.056 - 0.058	2	0.057	0.056 - 0.058
Barium dissolved (mg/L)	2	0.055	0.055	2	0.055	0.055
Boron (mg/L)	2	0.008	0.008	2	0.008	0.008
Boron dissolved (mg/L)	2	0.010	0.009 - 0.010	2	0.010	0.009 - 0.010
Bromate Dissolved (mg/L)	8	0.005	<0.003 - 0.005	8	<0.005	<0.003 - <0.005
Cadmium (mg/L)	2	<0.00002	<0.00002	2	<0.00002	<0.00002
Cadmium Dissolved (mg/L)	2	<0.00002	<0.00002	2	<0.00002	<0.00002
Chlorate dissolved (mg/L)	8	0.03	<0.01 - 0.10	8	<0.1	<0.01 - <0.1
Chlorine total (mg/L)	2	<0.03	<0.03	2	<0.03	<0.03
Chlorite Dissolved (mg/L)	8	0.054	<0.005 - 0.200	8	<0.2	<0.005 - <0.2
Chromium (mg/L)	2	0.0002	<0.0002	2	0.0002	<0.0002 - 0.0002
Chromium dissolved (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Fluoride (mg/L)	8	0.10	0.09 - 0.10	8	0.10	0.09 - 0.10
Lead (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Lead dissolved (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Mercury (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Mercury dissolved (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Nitrate (as N) dissolved (mg/L)	6	0.09	0.08 - 0.10	6	0.09	0.08 - 0.10
Nitrite (as N) dissolved (mg/L)	6	<0.01	<0.01	6	<0.01	<0.01
Selenium (mg/L)	2	0.0002	0.0002	2	0.0002	0.0002
Selenium dissolved (mg/L)	2	0.0002	0.0002	2	0.0002	0.0002
Uranium (mg/L)	2	0.0006	0.0005 - 0.0006	2	0.0006	0.0005 - 0.0006
Uranium dissolved (mg/L)	2	0.0006	0.0005 - 0.0006	2	0.0006	0.0005 - 0.0006

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Secondary Organics						
Bromodichloromethane (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Bromoform (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Chloroform (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Dibromochloromethane (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Dichlorobenzene (1,3) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Dichloroethylene cis (1,2) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Dichloroethylene trans (1,2) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Dichloropropane (1,2) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Methyl Isobutyl Ketone (µg/L)	4	<20	<20	4	<20	<20
Methyl Isobutyl Ketone (MIBK) (µg/L)	58	<1.0	<1.0	58	<1.0	<1.0
Methyl t-Butyl Ether (MTBE) (µg/L)	58	<0.5	<0.5	58	<0.5	<0.5
Methyl-t-Butyl Ether (MTBE) (µg/L)	4	<0.50	<0.50	4	<0.50	<0.50
Styrene (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Tetrachloroethane (1,1,2,2) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Total Organic Carbon (mg/L)	8	1.0	0.9 - 1.2	8	1.0	0.9 - 1.2
Total Volatile Organics (Non THM) (µg/L)	58	1.5	<1.0 - 2.9	58	1.5	<1.0 - 2.9
Trichlorobenzene (1,2,4) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Trichloroethane (1,1,1) (µg/L)	62	<0.50	<0.5	62	<0.50	<0.5 - <0.50
Xylene (1,2) (µg/L)	62	0.49	<0.30 - 0.50	62	<0.5	<0.30 - <0.5
Xylene (1,4) (µg/L)	62	0.49	<0.40 - 0.50	62	<0.5	<0.40 - <0.5

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

January 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Secondary Inorganics						
Alkalinity phenolphthalein (mg CaCO3/L)	2	<3	<3	2	<3	<3
Alkalinity total (mg CaCO3/L)	8	122.0	115.0 - 125.0	8	122.0	115.0 - 125.0
Aluminum (mg/L)	2	0.120	0.084 - 0.156	2	0.120	0.084 - 0.156
Ammonia as NH3 (mg/L)	30	0.05	<0.05 - 0.07	30	0.05	<0.05 - 0.07
Beryllium (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Bromide Dissolved (mg/L)	8	0.04	<0.03 - 0.05	8	<0.05	<0.03 - <0.05
Calcium (mg/L)	2	46.3	46.0 - 46.6	2	46.3	46.0 - 46.6
Calcium Hardness (mg/L CaCO3)	8	116.9	115.0 - 119.0	8	116.9	115.0 - 119.0
Chloride Dissolved (mg/L)	8	0.76	0.50 - 1.31	8	0.76	0.50 - 1.31
Chlorine free (mg/L)	2	<0.07	<0.07	2	<0.07	<0.07
Cobalt (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Copper (mg/L)	2	0.004	<0.002 - 0.006	2	0.004	<0.002 - 0.006
Iron (mg/L)	2	0.103	0.066 - 0.139	2	0.103	0.066 - 0.139
Lithium (mg/L)	2	0.0031	0.0030 - 0.0031	2	0.0031	0.0030 - 0.0031
Magnesium (mg/L)	2	14.3	14.2 - 14.3	2	14.3	14.2 - 14.3
Manganese (mg/L)	2	0.003	<0.002 - 0.004	2	0.003	<0.002 - 0.004
Molybdenum (mg/L)	2	0.0005	0.0005	2	0.0005	0.0005
Nickel (mg/L)	2	<0.0005	<0.0005	2	<0.0005	<0.0005
Nitrogen Total Kjeldahl (TKN) (mg/L N)	2	<0.1	<0.1	2	<0.1	<0.1
Phosphate Ortho (as P) (mg/L as P)	2	<0.02	<0.02	2	<0.02	<0.02
Phosphorus (mg/L)	2	<0.02	<0.02	2	<0.02	<0.02
Potassium (mg/L)	2	0.6	0.6	2	0.6	0.6
Silicon (mg/L)	2	1.93	1.88 - 1.97	2	1.93	1.88 - 1.97
Silver (mg/L)	2	<0.00002	<0.00002	2	<0.00002	<0.00002
Sodium (mg/L)	2	3.1	2.8 - 3.4	2	3.1	2.8 - 3.4
Strontium (mg/L)	2	0.467	0.464 - 0.470	2	0.467	0.464 - 0.470
Sulphate Dissolved (mg/L)	8	58.5	56.4 - 60.5	8	58.5	56.4 - 60.5
Thallium (mg/L)	2	<0.0002	<0.0002	2	<0.0002	<0.0002
Tin (mg/L)	2	<0.0005	<0.0005	2	<0.0005	<0.0005
Titanium (mg/L)	2	0.0027	0.0017 - 0.0036	2	0.0027	0.0017 - 0.0036
Total Hardness (mg/L CaCO3)	8	177.3	168.0 - 185.0	8	177.3	168.0 - 185.0
Zinc (mg/L)	2	0.006	<0.005 - 0.006	2	0.006	<0.005 - 0.006
Zirconium (mg/L)	2	<0.001	<0.001	2	<0.001	<0.001