EDMONTON WATERWORKS MONTHLY REPORT

April 2025

PROVIDING MORE

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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 for a minimum of one day ahead of the actual bypass. All other bypasses are considered unplanned.

In April, Rossdale Plant had 1 planned bypass and no shutdowns.

Date	Type	Bypass Description
Apr 2	Planned	2.7-hour bypass due to capital project work

In April, E.L. Smith Plant had 1 planned shutdown and 2 bypasses.

Date	Type	Bypass Description
Apr 8	Planned	0.9-hour plant bypass to complete maintenance work
Apr 23	Planned	12.9-hour shutdown due to capital and maintenance work
Apr 30	Unplanned	0.58- hour plant bypass due to caustic pump failure

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

Chemical Dosing Highlights

In April, 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 – April 2025

EPCOR Incident Number	Description	Date of Incident	AEPA Reference Number
ENV-20250402-841173-v1	About 471 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.	April 2, 2025	439169
ENV-20250405-352913-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.	April 5, 2025	439261
ENV-20250407-346263-v1	About 131 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.	April 7, 2025	439325
ENV-20250410-716725-v1	About 88 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.	April 10, 2025	439451
ENV-20250413-121062-v1	About 212 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.	April 13, 2025	439568

ENV-20250419-560604-v1	About 129 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.	April 19, 2025	439772
ENV-20250422-244135-v1	About 42 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.	April 22, 2025	439855

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
Operator Foreman	WT III
Water Operator	WT III
Water Operator	WT III
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	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)

April 2025

Day	Rossdale			E.L. Smith	Plants Combined Total
	Plant 1	Plant 2	Plant Total	Plant Total	
1	60	91	151	261	411
2	61	89	150	261	411
3	75	95	170	246	416
4	75	95	170	241	411
5	68	102	170	241	411
6	65	105	170	241	411
7	68	108	176	248	423
8	70	110	180	247	427
9	70	110	180	251	431
10	70	110	180	253	433
11	65	105	170	271	441
12	60	100	160	250	410
13	60	100	160	241	401
14	60	100	160	241	401
15	60	100	160	242	402
16	66	106	172	268	440
17	65	105	170	260	429
18	60	100	160	250	410
19	60	100	160	251	411
20	67	107	173	264	438
21	66	106	172	261	433
22	60	100	160	270	430
23	67	107	174	141	314
24	85	90	175	260	435
25	85	106	191	265	456
26	85	115	200	280	480
27	80	110	191	280	470
28	75	105	180	257	437
29	65	102	167	250	417
30	63	103	166	265	431
Monthly Total	2,036	3,081	5,117	7,554	12,671
Monthly Min	60	89	150	141	
Monthly Max	85	115	200	280	
Monthly Avg	68	103	171	252	422

NOTES: ' -- ' indicates plant offline

1.2.2 Treated Water Production (ML)

April 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	16	205	137	194	279	232	369	70.8
2	26	206	124	162	279	231	354	70.5
3	90	207	154	198	287	223	377	68.6
4	87	210	156	198	266	218	374	70.3
5	133	208	156	202	292	217	373	69.4
6	12	207	155	202	216	219	374	68.7
7	134	210	164	204	282	222	386	66.7
8	69	208	164	0.0	278	206	369	68.3
9	80	209	165	200	214	211	376	68.0
10	101	210	166	201	271	219	385	66.7
11	97	209	158	198	285	240	398	70.7
12	82	202	144	204	289	228	372	73.8
13	84	208	145	189	214	216	360	71.6
14	84	208	147	196	277	217	364	68.7
15	75	207	148	202	273	217	366	66.7
16	83	209	160	208	292	239	400	65.6
17	74	207	155	203	287	234	389	73.4
18	78	192	147	200	278	221	368	72.5
19	89	201	147	203	279	227	373	73.0
20	81	208	159	203	292	235	394	73.1
21	88	206	158	200	279	230	388	80.3
22	65	208	144	203	299	243	387	78.9
23	95	212	157	0.0	273	99	255	78.4
24	75	211	157	202	298	237	394	65.6
25	83	208	172	203	296	235	408	65.1
26	141	209	183	201	303	253	436	68.8
27	143	207	174	199	293	250	424	74.4
28	58	210	163	200	282	228	391	76.7
29	89	211	151	201	274	213	364	76.5
30	71	207	154	203	275	224	378	69.4
Monthly Tota			4,664			6,683	11,347	
Monthly Min	12			0.0				
Monthly Max		212			303			
Monthly Avg			155			223	378	

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

April 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	6.1	9.7	7.5	7.9	8.0	8.0	14.3	17.2	15.6		4.8	8.1	6.4	7.9	8.0	8.0	13.3	15.0	14.0	
2	5.3	9.7	7.0	8.0	8.0	8.0	12.3	14.7	13.9		4.8	9.0	6.2	7.9	8.0	8.0	11.5	13.9	12.4	
3	5.4	9.4	6.5	8.0	8.0	8.0	10.4	13.3	12.1		5.5	9.0	6.4	7.9	8.0	8.0	8.7	11.5	10.1	
4	6.0	9.4	7.4	8.0	8.1	8.0	8.7	10.4	9.5		4.7	6.4	5.4	7.9	8.0	8.0	7.2	8.7	7.6	
5	6.2	15	8.9	8.1	8.1	8.1	6.7	8.7	7.8		5.2	12	9.7	8.0	8.1	8.0	5.6	7.2	6.5	
6	8.8	18	14	8.1	8.1	8.1	6.0	9.6	7.4		8.4	12	9.7	8.0	8.1	8.0	5.6	8.1	6.3	
7	15	29	18	8.1	8.1	8.1	6.2	13.5	9.3		12	30	18	8.0	8.1	8.0	8.1	15.0	11.0	
8	27	60	39	8.0	8.1	8.1	13.5	21.3	17.1		29	55	45	8.0	8.1	8.0	15.0	26.1	18.7	
9	40	50	45	8.0	8.0	8.0	21.3	36.2	30.5		37	50	45	7.9	8.0	7.9	26.1	38.2	34.3	
10	40	50	45	7.9	8.0	7.9	35.0	40.2	36.7		40	55	45	7.9	7.9	7.9	37.5	40.9	39.4	
11	28	50	40	7.9	8.0	7.9	27.7	38.9	36.2		30	55	38	7.9	8.0	8.0	27.9	38.2	32.6	
12	24	36	31	7.9	8.0	8.0	21.5	27.7	24.8		23	50	33	8.0	8.0	8.0	21.6	27.9	24.0	
13	21	33	26	8.0	8.1	8.0	17.3	21.5	19.7		23	45	29	8.0	8.1	8.0	18.2	21.6	20.0	
14	19	29	22	8.0	8.1	8.0	16.3	18.8	17.5		21	45	29	8.0	8.1	8.1	15.3	18.2	16.8	
15	21	34	30	8.0	8.1	8.0	13.2	16.3	14.7		25	110	40	8.0	8.0	8.0	12.7	16.2	14.5	
16	26	65	45	8.1	8.1	8.1	10.6	13.2	12.3		25	120	50	8.0	8.2	8.1	9.8	16.8	11.9	
17	27	40	32	8.1	8.1	8.1	8.3	10.6	9.2		32	75	45	8.1	8.2	8.1	8.7	10.9	9.7	
18	34	39	37	8.1	8.1	8.1	7.2	8.9	7.7		35	70	50	8.1	8.1	8.1	8.0	8.8	8.4	
19	34	110	70	8.1	8.1	8.1	7.1	7.5	7.4		35	170	90	8.1	8.1	8.1	7.3	8.4	7.9	
20	45	95	60	8.0	8.1	8.1	6.1	7.3	6.8		80	95	85	8.1	8.1	8.1	5.9	7.7	6.9	
21	45	80	60	8.0	8.1	8.1	5.4	6.1	5.8		95	190	110	8.1	8.1	8.1	5.6	7.5	6.0	
22	60	230	100	8.1	8.1	8.1	5.4	6.5	5.8		95	300	190	8.1	8.1	8.1	5.4	8.1	6.4	
23	120	230	150	8.1	8.1	8.1	5.7	7.0	6.2		110	650	180	8.1	8.1	8.1	5.9	16.5	7.8	
24	55	450	210	8.1	8.2	8.1	6.1	12.1	7.6		70	500	150	8.1	8.2	8.2	6.3	13.0	8.1	
25	55	100	75	8.1	8.2	8.2	6.3	8.0	7.2		50	95	75	8.2	8.2	8.2	6.6	8.5	7.4	
26	36	65	50	8.2	8.2	8.2	7.1	9.4	7.7		22	90	45	8.2	8.3	8.2	7.4	9.1	8.4	
27	15	36	21	8.2	8.3	8.2	7.7	9.4	8.4		17	25	21	8.3	8.3	8.3	7.5	8.5	8.1	
28	15	37	24	8.3	8.3	8.3	6.2	8.3	7.1		17	50	35	8.3	8.3	8.3	7.5	8.4	7.9	
29	25	140	50	8.2	8.3	8.2	7.1	8.0	7.6		34	90	60	8.3	8.3	8.3	8.1	8.6	8.4	
30	27	90	60	8.2	8.3	8.2	7.8	8.9	8.4		29	90	45	8.2	8.3	8.3	8.5	9.5	9.2	
Monthly Min/Max/Avg	5.3	450	45	7.9	8.3	8.1	5.4	40.2	12.9		4.7	650	55	7.9	8.3	8.1	5.4	40.9	13.0	

NOTES: ' -- ' indicates plant offline

1.2.4 Treated Water Quality Entering the Distribution System

April 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	0.06	0.08	0.06	1.96	2.06	2.00	7.7	7.8	7.7	0.70	0.71	0.70	166	0.5	0.05	0.05	0.05	1.83	1.91	1.87	7.6	7.6	7.6	0.63	0.64	0.64	170	0.3
2	0.06	0.08	0.06	2.01	2.16	2.07	7.7	7.7	7.7	0.67	0.70	0.69	163	0.8	0.05	0.06	0.05	1.83	1.89	1.87	7.6	7.7	7.6	0.64	0.66	0.65	165	0.4
3	0.06	0.08	0.06	1.96	2.16	2.07	7.7	7.7	7.7	0.68	0.68	0.68	169	1.0	0.05	0.06	0.05	1.83	1.93	1.88	7.6	7.7	7.6	0.66	0.66	0.66	169	0.6
4	0.06	0.07	0.06	2.01	2.11	2.07	7.7	7.7	7.7	0.68	0.69	0.68	170	0.8	0.05	0.06	0.06	1.83	1.88	1.85	7.6	7.6	7.6	0.66	0.67	0.66	170	0.5
5	0.06	0.07	0.06	2.06	2.21	2.12	7.7	7.8	7.7	0.67	0.69	0.68	170	0.7	0.06	0.06	0.06	1.83	1.88	1.87	7.6	7.7	7.6	0.67	0.68	0.68	173	0.3
6	0.06	0.07	0.06	2.01	2.21	2.10	7.7	7.8	7.7	0.67	0.69	0.68	172	0.7	0.06	0.06	0.06	1.81	1.92	1.86	7.6	7.7	7.6	0.68	0.69	0.69	173	0.4
7	0.06	0.07	0.06	1.91	2.16	2.06	7.8	7.8	7.8	0.66	0.69	0.67	171	0.5	0.06	0.06	0.06	1.88	1.93	1.90	7.6	7.6	7.6	0.67	0.68	0.68	170	0.5
8	0.06	0.09	0.07	1.96	2.16	2.03	7.7	7.8	7.7	0.67	0.69	0.69	169	0.8	0.06	0.07	0.07	1.88	1.93	1.90	7.6	7.6	7.6	0.67	0.68	0.67	170	0.8
9	0.07	0.08	0.07	1.96	2.16	2.08	7.7	7.8	7.7	0.66	0.70	0.68	158	0.6	0.06	0.07	0.06	1.83	1.93	1.88	7.6	7.6	7.6	0.66	0.67	0.66	154	0.7
10	0.06	0.09	0.06	2.11	2.21	2.16	7.7	7.8	7.7	0.64	0.66	0.65	146	0.6	0.06	0.07	0.06	1.88	1.98	1.91	7.6	7.7	7.6	0.64	0.66	0.66	141	0.5
11	0.06	0.07	0.06	2.01	2.16	2.12	7.7	7.8	7.7	0.64	0.65	0.64	131	0.6	0.06	0.06	0.06	1.83	1.91	1.86	7.7	7.7	7.7	0.65	0.68	0.67	136	0.4
12	0.06	0.08	0.06	2.01	2.16	2.09	7.7	7.8	7.8	0.63	0.65	0.64	138	0.4	0.06	0.06	0.06	1.84	1.93	1.89	7.7	7.7	7.7	0.67	0.69	0.68	138	0.4
13	0.06	0.08	0.06	2.06	2.21	2.10	7.8	7.9	7.8	0.64	0.66	0.65	140	0.3	0.06	0.06	0.06	1.85	1.91	1.88	7.7	7.7	7.7	0.68	0.69	0.68	142	0.6
14	0.06	0.07	0.06	2.01	2.16	2.08	7.8	7.9	7.8	0.65	0.66	0.65	146	0.5	0.06	0.06	0.06	1.76	1.92	1.88	7.6	7.7	7.7	0.68	0.70	0.69	146	0.3
15	0.06	0.07	0.06	1.96	2.16	2.07	7.8	7.9	7.8	0.65	0.70	0.68	144	0.7	0.06	0.06	0.06	1.86	1.93	1.89	7.7	7.7	7.7	0.69	0.70	0.70	146	0.5
16	0.06	0.08	0.06	2.06	2.21	2.16	7.8	7.8	7.8	0.69	0.71	0.70	146	0.6	0.06	0.06	0.06	1.90	2.00	1.96	7.7	7.7	7.7	0.69	0.71	0.70	154	0.5
17	0.06	0.09	0.06	2.06	2.21	2.14	7.8	7.8	7.8	0.70	0.71	0.70	158	0.8	0.06	0.06	0.06	1.88	1.98	1.93	7.7	7.7	7.7	0.70	0.71	0.71	158	0.5
18	0.06	0.08	0.06	2.11	2.26	2.15	7.8	7.8	7.8	0.69	0.71	0.70	158	0.6	0.06	0.06	0.06	1.88	1.96	1.92	7.7	7.7	7.7	0.71	0.71	0.71	158	0.6
19	0.06	0.08	0.06	1.86	2.21	2.01	7.8	7.9	7.8	0.69	0.71	0.70	158	0.7	0.06	0.06	0.06	1.93	2.03	1.98	7.7	7.7	7.7	0.71	0.71	0.71	155	0.6
20	0.06	0.09	0.06	1.96	2.06	2.01	7.8	7.9	7.8	0.70	0.71	0.71	154	0.6	0.06	0.06	0.06	1.93	2.01	1.97	7.7	7.7	7.7	0.70	0.71	0.71	157	0.6
21	0.06	0.09	0.06	1.91	2.06	1.98	7.8	7.9	7.8	0.71	0.71	0.71	157	0.5	0.05	0.06	0.06	1.93	2.03	1.98	7.7	7.7	7.7	0.70	0.71	0.71	150	0.5
22	0.06	0.08	0.06	1.86	2.16	2.00	7.7	7.9	7.8	0.70	0.71	0.71	153	0.6	0.05	0.06	0.06	1.88	2.00	1.94	7.6	7.7	7.7	0.70	0.71	0.71	156	0.9
23	0.06	0.07	0.06	2.06	2.16	2.12	7.7	7.8	7.8	0.69	0.70	0.69	155	0.3	0.06	0.09	0.06	1.80	2.11	1.95	7.6	7.8	7.7	0.70	0.72	0.71	160	0.5
24	0.06	0.08	0.06	2.06	2.21	2.15	7.7	7.8	7.8	0.68	0.70	0.69	168	0.4	0.05	0.06	0.06	1.89	1.98	1.92	7.6	7.7	7.7	0.68	0.71	0.70	172	0.6
25	0.04	0.09	0.06	1.96	2.16	2.06	7.8	7.8	7.8	0.69	0.73	0.72	173	0.5	0.06	0.07	0.06	1.89	1.97	1.93	7.7	7.7	7.7	0.71	0.73	0.72	170	0.6
26	0.03	0.06	0.04	1.96	2.16	2.10	7.7	7.8	7.8	0.71	0.73	0.72	172	0.8	0.06	0.07	0.06	1.82	1.97	1.88	7.6	7.7	7.7	0.71	0.72	0.72	174	0.8
27	0.04	0.06	0.04	1.96	2.16	2.04	7.7	7.8	7.7	0.71	0.73	0.72	177	0.6	0.06	0.07	0.06	1.82	1.88	1.84	7.7	7.7	7.7	0.71	0.73	0.72	178	0.8
28	0.04	0.05	0.04	1.96	2.06	1.99	7.8	7.8	7.8	0.73	0.74	0.74	178	0.5	0.06	0.07	0.07	1.83	1.91	1.86	7.7	7.7	7.7	0.70	0.72	0.71	177	0.8
29	0.04	0.05	0.05	1.96	2.11	2.01	7.8	7.9	7.8	0.73	0.74	0.73	176	0.4	0.06	0.07	0.07	1.83	1.92	1.88	7.7	7.7	7.7	0.69	0.70	0.70	172	0.9
30	0.04	0.05	0.04	1.91	2.06	1.98	7.7	7.8	7.7	0.72	0.74	0.73	173	0.6	0.07	0.08	0.07	1.83	1.93	1.88	7.5	7.7	7.6	0.66	0.70	0.68	168	0.7
Monthly Min/Max/ Avg	0.03	0.09	0.06	1.86	2.26	2.07	7.7	7.9	7.8	0.63	0.74	0.69	160	0.6	0.05	0.09	0.06	1.76	2.11	1.90	7.5	7.8	7.7	0.63	0.73	0.69	161	0.6

NOTES: ' -- ' indicates plant offline

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

April 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	4	1	1	8	1	2	8	5	1	14	2	--	--	--	1	3	2	6	36	15	1	2	1	1	2	1
2	1	23	4	1	20	1	1	5	3	1	3	1	1	23	3	1	22	1	2	11	5	1	2	1	1	17	2
3	1	2	1	1	21	1	1	30	12	1	2	1	1	6	2	1	1	3	2	7	4	1	25	2	1	2	1
4	1	1	1	1	2	1	1	19	3	1	1	1	1	1	1	1	3	1	4	25	9	1	1	1	1	1	1
5	1	20	5	1	22	5	1	2	1	1	13	2	--	--	--	1	1	1	1	6	3	1	5	1	--	--	--
6	1	2	1	2	12	4	1	3	1	1	2	1	1	4	3	1	1	1	1	3	1	1	5	1	1	11	2
7	1	6	1	1	5	3	--	--	--	1	3	1	1	5	3	4	15	6	1	4	2	4	25	6	1	5	3
8	1	27	2	2	12	5	6	39	11	1	16	8	2	18	6	4	12	7	10	19	14	4	12	7	2	8	4
9	4	10	6	1	7	2	3	9	6	3	26	6	6	13	8	1	9	4	5	14	9	2	8	5	1	5	3
10	1	6	3	1	13	2	1	6	3	1	6	3	2	8	4	1	4	1	1	8	4	1	23	3	1	6	3
11	1	3	1	1	3	1	1	3	2	1	5	1	1	4	2	1	20	2	1	3	2	2	12	7	1	3	1
12	1	2	1	1	2	1	1	34	3	1	31	2	1	2	1	1	2	1	1	2	2	1	35	5	1	2	1
13	1	17	3	1	1	1	1	2	1	1	3	1	--	--	--	1	4	1	1	25	4	2	13	5	1	22	2
14	1	6	1	--	--	--	1	2	1	1	3	1	1	36	18	1	19	2	1	4	2	--	--	--	1	6	1
15	1	3	1	1	8	2	--	--	--	1	2	1	5	26	8	1	2	1	1	4	2	4	27	7	1	2	1
16	1	2	1	1	3	2	2	13	4	2	9	4	2	9	5	1	2	1	4	28	8	2	7	3	1	22	2
17	--	--	--	1	2	1	1	4	2	1	8	3	3	24	5	1	1	1	2	7	5	1	3	2	2	12	4
18	2	21	4	2	11	5	1	3	2	1	6	2	2	6	4	3	12	6	3	5	6	1	3	2	2	6	3
19	2	8	3	2	5	3	1	20	4	1	3	2	1	5	3	2	5	4	8	35	15	3	24	5	1	11	2
20	2	5	3	3	7	4	4	11	7	4	20	6	2	5	3	2	17	4	--	--	--	3	9	6	1	35	9
21	1	28	7	1	4	3	3	12	5	3	20	5	8	32	12	1	4	2	--	--	--	2	6	4	3	10	5
22	3	8	5	--	--	--	1	5	3	1	6	3	3	12	7	3	26	6	8	33	13	2	4	3	1	6	3
23	1	6	3	3	26	5	--	--	--	1	23	5	1	6	3	1	6	3	5	14	9	3	27	7	1	6	2
24	1	3	2	1	6	3	2	16	5	1	7	3	1	3	2	1	3	1	2	8	5	2	6	4	3	27	5
25	10	21	14	2	8	4	4	11	7	2	10	6	8	29	11	1	23	8	3	6	4	2	10	6	3	16	10
26	1	22	8	4	19	7	3	8	5	4	23	8	4	11	7	3	9	6	15	24	19	3	8	5	3	17	8
27	3	24	6	3	8	5	2	5	4	4	13	8	2	9	4	2	6	4	6	28	10	1	26	6	4	19	14
28	4	9	6	4	8	6	--	--	--	5	14	9	3	30	14	2	5	4	7	15	10	5	12	8	9	21	12
29	4	17	9	3	6	5	4	18	10	4	20	7	5	17	12	--	--	--	4	13	9	2	10	6	4	13	8
30	4	18	6	--	--	--	3	8	5	6	26	11	4	11	6	5	30	12	3	7	5	2	29	8	3	7	5
Monthly Min/Max/Avg	1	28	4	1	26	3	1	39	4	1	31	4	1	36	6	1	30	3	1	36	7	1	35	4	1	35	4

NOTE: ' -- ' indicates filter offline

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

April 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	27	1	1	29	1	1	29	1	1	30	1	1	3	1	1	36	2	3	37	8	1	1	1	1	25	3
2	1	29	1	1	28	2	1	3	1	1	31	1	1	30	2	1	39	2	2	5	3	1	27	4	1	2	1
3	1	28	3	1	1	1	1	30	2	1	6	1	1	5	1	1	42	1	4	39	9	1	2	1	1	26	4
4	1	14	1	1	29	2	1	37	5	1	31	5	1	36	3	1	19	2	3	36	5	1	27	3	1	1	1
5	1	33	3	1	1	1	1	8	1	1	3	1	1	33	1	1	43	5	7	35	13	2	5	3	3	30	6
6	1	2	1	1	33	4	1	33	5	1	30	5	1	17	3	1	12	2	5	12	8	2	31	6	1	8	3
7	1	31	4	1	1	1	1	5	1	1	2	1	1	5	1	1	35	2	5	34	12	2	8	5	3	31	7
8	1	31	1	1	17	4	1	36	8	1	32	6	1	32	4	1	19	3	6	11	8	2	18	3	3	12	3
9	1	28	4	1	2	1	1	12	3	1	3	1	1	13	1	1	43	1	4	44	14	4	24	8	2	36	9
10	1	31	3	1	23	3	1	27	3	1	30	4	1	27	4	1	20	2	4	28	10	1	31	6	2	27	6
11	1	29	3	1	30	3	1	28	3	1	30	3	1	27	3	1	37	3	3	8	5	1	8	2	1	6	2
12	1	2	1	1	4	1	1	4	1	1	6	1	1	5	1	1	2	1	4	30	8	1	1	1	2	24	5
13	1	29	5	1	29	3	1	40	6	1	34	4	1	27	5	1	40	6	3	6	4	1	30	5	1	4	1
14	1	34	2	1	14	5	1	7	2	1	28	3	1	17	1	1	12	1	6	27	10	1	3	2	1	31	8
15	1	6	1	1	4	2	1	7	1	1	9	1	10	36	16	9	44	19	5	10	7	5	27	12	2	8	5
16	6	29	12	1	33	8	5	45	10	1	35	11	2	13	7	1	12	4	5	34	11	1	8	4	1	19	6
17	1	8	4	2	17	8	1	19	4	2	31	6	1	9	2	1	41	6	4	33	11	1	19	6	1	9	4
18	1	37	7	1	4	2	1	35	11	1	36	3	5	39	12	1	15	5	4	31	7	1	7	3	2	27	7
19	1	18	5	2	19	5	1	12	4	2	20	5	1	8	2	1	24	4	4	27	10	2	24	5	1	30	6
20	1	28	3	1	19	2	1	33	4	1	25	2	1	25	4	1	17	2	3	27	10	1	31	6	1	27	3
21	1	3	1	1	5	1	1	16	2	1	7	1	1	25	2	1	26	2	3	37	8	1	34	3	1	13	3
22	1	23	3	1	21	3	1	22	4	1	21	3	1	22	3	1	25	3	4	11	6	1	31	4	1	24	3
23	1	29	6	1	27	5	2	9	4	1	25	5	1	9	3	1	5	2	5	34	15	3	40	10	5	32	15
24	1	3	1	1	3	1	2	39	5	1	6	2	3	15	4	1	24	2	3	38	17	1	7	4	1	7	2
25	4	25	7	1	21	7	2	14	3	1	27	6	2	23	3	1	21	8	9	18	12	2	31	14	4	31	10
26	1	24	7	1	9	4	4	34	8	2	17	5	2	28	7	2	19	4	--	--	--	2	10	5	3	32	9
27	2	13	7	1	27	9	2	36	5	2	35	7	2	27	7	1	24	6	8	34	18	3	37	11	2	28	7
28	2	28	13	1	15	7	3	33	12	2	15	8	2	17	9	1	32	11	6	35	13	3	6	4	2	19	10
29	8	18	12	1	26	17	2	38	16	2	32	18	2	32	16	1	6	3	9	24	16	11	30	17	17	38	23
30	1	40	15	1	24	2	1	41	3	1	24	2	1	22	9	4	25	11	14	37	23	2	34	10	1	31	9
Monthly Min/Max/Avg	1	40	5	1	33	4	1	45	5	1	36	4	1	39	5	1	44	4	2	44	10	1	40	6	1	38	6

NOTES: ' -- ' indicates filter offline

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

April 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	7	1	1	27	2	1	10	1	1	28	2	1	2	1	1	8	1	1	29	2	1	5	1	1	29	3
2	1	41	2	1	8	1	1	45	4	1	5	1	1	29	3	1	27	2	1	15	1	1	28	1	1	5	1
3	1	4	2	1	30	4	1	17	1	1	7	1	1	2	1	1	9	1	1	24	2	1	5	1	1	26	2
4	1	1	1	1	2	2	2	30	6	2	30	4	1	28	5	1	38	2	1	7	2	1	3	1	1	7	2
5	2	29	5	1	32	4	1	4	2	1	7	2	2	5	3	2	11	3	1	7	2	2	21	4	1	29	4
6	1	5	3	1	6	3	4	31	7	3	25	6	2	16	7	1	8	3	3	13	6	2	5	3	2	9	5
7	3	14	5	1	32	6	2	30	5	2	10	4	2	7	5	2	12	5	1	38	4	2	11	5	2	7	3
8	2	5	3	3	11	4	3	8	6	9	21	13	2	5	3	2	11	4	1	5	2	1	8	3	6	20	8
9	1	32	9	1	37	8	1	20	3	2	13	6	3	24	7	1	9	2	--	--	--	3	13	6	1	10	4
10	1	8	2	1	25	5	1	20	4	2	13	4	2	14	5	1	8	3	1	9	3	1	8	3	1	14	4
11	1	23	4	1	10	2	1	26	5	1	21	3	1	5	2	1	13	2	1	10	2	1	3	1	1	8	1
12	1	2	1	1	33	3	1	25	5	1	10	2	1	20	2	1	41	2	1	11	3	1	10	3	1	22	4
13	3	28	6	1	4	2	1	4	2	1	21	3	1	9	4	1	7	1	--	--	--	1	8	1	1	10	2
14	2	5	3	1	28	8	3	25	6	2	6	4	1	3	2	3	13	6	5	14	8	1	12	7	1	28	2
15	7	20	11	2	10	6	2	31	5	2	8	3	5	18	10	2	12	4	2	35	5	1	13	4	4	16	8
16	1	10	5	1	31	7	1	20	6	3	24	7	3	15	4	2	15	6	1	12	3	1	14	6	1	6	3
17	1	17	5	1	29	3	1	25	6	1	30	5	2	24	6	1	9	3	2	14	5	1	6	3	2	20	6
18	1	7	4	1	15	5	1	27	7	2	11	5	1	19	5	3	14	6	1	17	5	1	15	6	1	9	3
19	1	15	5	1	28	4	2	37	6	1	25	6	1	12	5	1	13	4	1	9	3	1	14	3	2	26	5
20	1	28	6	1	29	6	1	29	5	2	26	5	2	21	7	1	8	4	1	16	6	1	12	4	1	29	5
21	1	22	3	1	29	3	1	22	3	1	22	3	1	14	3	1	12	2	1	12	2	1	13	2	1	17	2
22	1	26	3	1	28	3	1	27	4	1	6	3	1	19	5	1	11	4	1	30	3	1	12	4	1	7	2
23	2	22	9	1	33	13	1	4	3	2	29	10	4	35	9	2	22	6	1	18	7	2	9	3	4	33	13
24	1	32	6	1	31	8	2	29	5	1	30	5	1	28	5	1	15	4	1	23	10	2	21	6	1	10	3
25	4	15	9	4	33	9	2	30	13	5	21	9	6	20	11	2	20	8	4	13	6	3	19	7	6	40	11
26	4	29	9	2	14	6	5	28	11	4	27	10	3	25	10	3	11	6	3	45	8	1	32	9	3	8	5
27	1	7	4	2	30	11	3	32	10	2	9	5	1	13	7	2	22	10	2	25	10	2	21	7	4	30	11
28	4	33	15	3	38	14	2	15	8	5	33	16	6	31	17	3	13	7	2	11	6	2	21	13	3	31	8
29	4	37	17	5	11	7	10	34	17	5	41	20	5	9	7	10	26	15	--	--	--	5	19	9	8	41	13
30	1	28	9	2	30	10	8	32	16	1	30	13	3	32	11	1	43	10	1	26	9	5	35	12	4	33	14
Monthly Min/Max/Avg	1	41	6	1	38	6	1	45	6	1	41	6	1	35	6	1	43	5	1	45	5	1	35	5	1	41	5

NOTES: ' -- ' indicates filter offline

1.2.8 Rossdale Filters 1 - 9 Turbidity (NTU)

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

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

NOTES: ' -- ' indicates filter offline

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

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

NOTES: ' -- ' indicates filter offline

1.2.11 Combined Filter Effluent Water Quality

April 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	18	4	0.03	0.10	0.03	1	5	2	0.02	0.02	0.02
2	1	4	2	0.03	0.06	0.03	1	4	2	0.02	0.02	0.02
3	1	10	1	0.03	0.05	0.03	1	5	2	0.02	0.02	0.02
4	1	4	1	0.03	0.05	0.03	1	5	3	0.02	0.02	0.02
5	1	5	2	0.03	0.04	0.03	2	7	3	0.02	0.03	0.02
6	1	3	2	0.03	0.06	0.03	3	7	4	0.02	0.03	0.02
7	1	5	3	0.03	0.06	0.03	3	7	4	0.02	0.03	0.03
8	3	13	6	0.03	0.09	0.05	4	7	5	0.02	0.03	0.03
9	4	9	5	0.03	0.09	0.04	3	9	5	0.02	0.03	0.03
10	2	5	3	0.03	0.04	0.03	2	9	4	0.02	0.04	0.03
11	2	4	2	0.03	0.04	0.03	1	5	3	0.02	0.03	0.02
12	1	7	2	0.03	0.05	0.03	2	5	2	0.02	0.03	0.02
13	1	6	2	0.03	0.06	0.03	2	6	3	0.02	0.02	0.02
14	1	13	3	0.03	0.05	0.03	3	7	4	0.02	0.03	0.02
15	2	6	3	0.03	0.05	0.03	3	8	5	0.02	0.03	0.03
16	2	6	3	0.03	0.05	0.03	5	9	7	0.02	0.03	0.03
17	2	6	3	0.03	0.05	0.03	4	7	5	0.02	0.03	0.02
18	2	11	3	0.03	0.04	0.03	4	9	5	0.02	0.03	0.02
19	2	8	4	0.03	0.05	0.03	3	9	5	0.02	0.03	0.02
20	4	12	5	0.03	0.05	0.03	3	8	5	0.02	0.03	0.02
21	4	8	6	0.03	0.04	0.03	1	5	3	0.02	0.02	0.02
22	3	8	5	0.03	0.05	0.03	2	6	4	0.02	0.02	0.02
23	3	8	5	0.03	0.07	0.05	1	15	5	0.01	0.04	0.01
24	2	6	3	0.02	0.06	0.03	2	9	5	0.02	0.03	0.02
25	3	14	7	0.03	0.05	0.03	6	12	9	0.02	0.03	0.03
26	5	9	7	0.03	0.05	0.03	6	10	7	0.02	0.03	0.03
27	4	9	6	0.03	0.07	0.04	6	11	8	0.02	0.03	0.03
28	5	12	8	0.03	0.06	0.03	8	15	11	0.02	0.05	0.03
29	5	13	8	0.03	0.06	0.03	8	20	14	0.02	0.04	0.03
30	4	10	7	0.03	0.06	0.04	1	18	10	0.02	0.04	0.03
Monthly Min/Max/Avg	1	18	4	0.02	0.10	0.03	1	20	5	0.01	0.05	0.02

NOTES: ' -- ' indicates plant offline

1.2.12 Rossdale UV Disinfection - Filters 1 - 3

April 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	36.9	42.0	38.8	19.8	23.4	14.3	45.2	50.3	47.6	21.2	24.4	22.5	35.0	37.3	35.9	20.1	24.8	22.5	94.7	95.8	95.1
2	35.1	35.9	35.6	22.8	27.4	3.0	46.0	58.6	47.7	16.8	22.6	15.6	35.0	40.7	35.9	17.6	22.1	20.9	94.5	95.2	94.8
3	35.0	36.0	35.6	25.5	29.1	27.1	37.1	43.8	38.9	24.1	28.4	16.8	35.8	85.1	40.7	17.6	21.3	0.6	94.9	95.2	94.9
4	35.0	36.0	35.6	23.3	27.0	25.0	38.2	43.6	40.6	24.1	28.7	26.7	34.6	36.5	35.6	21.0	29.8	26.7	93.7	95.3	94.6
5	35.2	40.3	35.8	19.4	27.7	17.0	42.9	47.1	45.8	22.1	24.5	18.0	34.8	36.7	35.7	22.6	25.3	24.1	93.7	95.8	94.8
6	35.1	36.2	35.7	25.7	30.1	27.6	36.3	49.1	38.6	24.2	33.7	5.0	35.9	41.4	38.7	11.3	23.8	10.5	95.7	96.0	95.9
7	35.0	36.8	35.8	21.7	26.0	24.1	35.3	43.1	38.1	25.2	33.2	29.2	--	--	--	--	--	--	94.1	95.7	94.9
8	35.3	36.6	35.7	18.6	23.1	14.9	36.9	41.3	38.6	21.5	27.5	24.9	34.4	45.2	35.9	17.2	29.0	20.8	93.2	94.7	94.3
9	34.8	36.2	35.6	20.0	24.7	9.3	40.7	52.9	46.5	16.0	21.9	19.0	34.3	36.8	35.6	21.0	28.4	24.7	93.2	95.3	93.9
10	35.1	36.8	35.6	23.2	27.9	26.2	44.2	52.3	49.3	11.0	24.1	12.7	34.8	43.1	38.5	17.9	21.6	19.4	93.2	95.2	94.6
11	35.5	43.3	38.4	21.1	23.5	22.3	45.9	54.7	49.1	22.2	23.9	23.1	41.2	42.6	41.9	11.7	18.7	3.8	95.2	95.6	95.4
12	37.1	61.7	41.7	12.0	22.3	11.6	42.2	57.6	49.6	22.2	26.0	24.5	34.9	52.1	36.4	17.4	26.1	21.2	95.1	96.5	95.9
13	35.6	39.7	37.6	23.6	27.3	11.5	52.8	56.8	54.9	18.7	24.3	11.8	35.8	39.3	37.4	22.3	24.9	23.6	95.9	96.5	96.1
14	35.1	36.1	35.7	24.7	28.1	26.1	--	--	--	--	--	--	35.0	39.3	36.4	21.7	26.5	16.5	95.3	95.9	95.7
15	35.2	37.7	36.2	21.7	25.4	23.0	39.3	54.0	41.3	20.3	27.9	24.9	--	--	--	--	--	--	95.1	95.3	95.2
16	35.1	39.5	36.5	19.0	22.1	15.0	37.2	43.6	39.4	23.6	27.6	26.0	34.0	36.8	35.6	21.6	29.6	25.9	94.1	95.3	94.9
17	--	--	--	--	--	--	41.3	45.7	43.1	21.7	23.8	12.2	34.8	36.4	35.6	21.8	26.6	24.0	94.4	94.7	94.5
18	34.9	36.2	35.6	24.0	31.3	26.2	50.9	53.8	52.7	19.8	20.7	2.5	35.0	43.4	37.1	16.8	22.5	20.4	94.7	95.3	94.9
19	35.0	39.8	37.1	20.1	25.1	22.3	39.5	53.6	44.9	19.9	27.7	24.3	41.4	74.6	43.4	11.1	18.0	2.8	95.0	95.4	95.2
20	35.5	45.5	39.8	18.0	22.8	20.3	38.1	48.9	43.0	22.6	28.9	25.8	34.4	43.2	36.8	17.1	28.0	23.9	94.3	95.6	95.1
21	35.1	90.5	38.5	16.6	27.6	14.9	47.8	65.4	52.6	15.8	23.5	12.5	34.8	39.9	36.6	21.9	27.6	24.7	94.7	96.7	95.9
22	35.0	36.1	35.6	25.3	30.5	28.0	--	--	--	--	--	--	35.7	58.9	41.5	14.4	23.6	14.9	95.7	96.2	95.8
23	35.1	42.7	38.6	21.4	28.2	23.9	43.2	51.7	46.8	23.5	27.9	23.1	--	--	--	--	--	--	95.4	96.2	95.9
24	41.7	46.2	43.6	18.3	21.5	10.8	46.5	52.5	49.8	22.6	26.2	24.4	37.6	57.1	42.3	17.5	25.9	20.1	95.5	96.0	95.7
25	34.8	35.9	35.6	24.7	28.9	2.6	39.7	49.9	44.7	13.0	25.0	21.4	35.0	38.2	36.0	23.2	27.5	25.2	94.5	95.8	94.9
26	34.9	36.1	35.6	25.6	28.7	27.7	35.3	40.8	35.8	24.7	30.3	22.8	34.9	36.4	35.7	20.2	25.8	23.1	94.0	94.5	94.4
27	34.9	36.0	35.6	22.7	28.8	25.7	35.3	36.6	35.7	24.3	30.4	27.4	35.3	40.2	35.7	18.9	22.1	4.6	93.1	94.8	93.6
28	34.9	36.2	35.6	18.0	23.2	20.6	36.2	46.5	41.1	19.2	24.7	22.0	--	--	--	--	--	--	93.6	94.0	93.8
29	35.1	36.6	35.6	17.6	25.4	12.0	46.2	48.1	48.4	18.6	19.2	6.3	35.0	39.9	35.6	18.0	27.6	24.2	93.9	94.1	94.0
30	34.5	36.1	35.6	23.3	27.4	25.1	--	--	--	--	--	--	34.8	36.3	35.6	22.2	24.5	23.1	93.2	94.4	94.0
Monthly Total						557.9						525.1						492.2			
Monthly Min/Max/ Avg	34.5	90.5	36.8	12.0	31.3		35.3	65.4	44.6	11.0	33.7		34.0	85.1	37.4	11.1	29.8		93.1	96.7	95.0

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

April 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	35.2	43.2	36.5	21.5	25.6	7.9	--	--	--	--	--	--	35.3	37.1	35.7	24.3	28.8	25.4	94.7	95.8	95.1
2	35.1	40.8	36.3	21.1	24.5	23.5	35.0	98.5	36.0	22.7	26.5	17.5	35.3	37.9	35.9	22.3	25.0	23.8	94.5	95.2	94.8
3	35.1	42.1	38.7	20.1	24.3	22.1	35.3	41.5	37.8	21.6	24.8	23.2	36.0	40.1	37.4	20.7	23.4	4.5	94.9	95.2	94.9
4	41.1	43.0	42.7	12.7	21.1	0.8	41.1	44.0	42.7	13.0	21.8	8.8	34.3	36.0	35.6	25.2	31.5	17.2	93.7	95.3	94.6
5	35.0	40.3	35.9	22.1	30.0	17.2	--	--	--	--	--	--	35.4	37.7	35.8	26.6	31.0	28.7	93.7	95.8	94.8
6	35.6	43.2	39.2	22.4	28.5	25.6	36.4	42.5	38.9	23.0	28.9	24.7	37.3	49.4	41.6	19.3	26.8	20.4	95.7	96.0	95.9
7	36.8	46.3	41.0	19.1	22.8	21.4	36.3	45.2	40.6	19.1	24.0	22.1	35.3	41.2	35.9	20.7	29.5	8.7	94.1	95.7	94.9
8	35.1	51.0	37.5	15.4	25.9	10.5	42.7	49.8	46.1	13.7	19.4	15.6	35.3	36.2	35.6	26.3	29.9	27.7	93.2	94.7	94.3
9	34.8	36.6	35.7	22.7	28.0	25.4	35.0	36.5	35.7	21.3	22.5	4.8	35.2	39.7	36.0	18.7	26.7	22.6	93.2	95.3	93.9
10	35.1	48.5	41.3	18.7	23.1	20.9	35.4	42.2	38.8	21.0	23.7	22.7	39.3	57.3	48.9	14.9	18.7	15.1	93.2	95.2	94.6
11	35.3	52.1	47.8	16.9	19.6	9.3	40.9	53.3	46.3	19.3	22.4	20.6	36.7	44.1	41.3	20.3	24.7	17.8	95.2	95.6	95.4
12	41.6	49.5	45.3	21.1	22.0	9.7	45.8	58.0	50.4	18.8	23.8	4.4	35.4	46.1	38.4	23.0	28.8	26.8	95.1	96.5	95.9
13	39.9	51.8	43.4	20.6	25.2	23.7	--	--	--	--	--	--	35.4	42.2	39.2	24.5	29.8	26.3	95.9	96.5	96.1
14	34.9	44.7	39.5	21.1	27.3	24.2	45.2	49.7	47.5	19.1	19.4	5.2	34.9	37.4	36.0	25.8	30.2	26.1	95.3	95.9	95.7
15	35.1	43.5	36.0	19.7	25.9	3.1	35.3	46.6	37.8	19.2	25.8	24.1	34.4	36.7	35.7	23.8	28.4	25.5	95.1	95.3	95.2
16	35.1	49.5	36.0	17.8	26.4	15.0	35.7	42.2	38.2	18.1	25.3	21.8	36.1	42.0	37.9	18.2	24.0	21.0	94.1	95.3	94.9
17	34.9	37.0	35.7	21.8	25.0	24.1	35.1	48.4	35.9	15.7	25.7	21.5	41.1	55.0	41.8	12.6	18.3	1.1	94.4	94.7	94.5
18	35.1	46.9	39.7	18.3	24.4	21.2	35.3	46.1	38.8	19.1	25.6	22.3	35.3	42.1	35.8	19.9	34.2	10.7	94.7	95.3	94.9
19	45.0	81.5	49.9	15.0	18.6	8.9	44.5	64.2	54.1	13.4	19.4	16.1	35.1	36.4	35.7	23.8	29.0	25.5	95.0	95.4	95.2
20	35.1	49.1	39.5	17.6	28.6	21.3	60.4	74.4	63.3	12.7	13.7	2.2	35.4	44.9	38.5	19.7	26.1	22.9	94.3	95.6	95.1
21	35.0	45.2	38.9	22.9	28.6	25.5	36.3	48.3	41.1	19.0	25.6	23.9	43.6	70.1	48.6	16.1	20.2	10.5	94.7	96.7	95.9
22	40.1	56.3	48.4	17.1	24.2	19.9	39.0	50.7	44.5	19.8	25.7	22.3	35.3	43.2	35.7	21.3	35.1	29.9	95.7	96.2	95.8
23	35.2	59.7	47.4	11.3	29.4	21.5	48.8	68.6	58.7	14.6	20.5	16.7	35.4	41.6	37.4	23.7	32.3	27.1	95.4	96.2	95.9
24	36.7	45.1	42.6	21.6	27.8	22.8	66.2	76.7	67.6	12.8	14.8	1.9	41.3	50.7	46.7	18.1	23.8	20.2	95.5	96.0	95.7
25	34.9	41.4	37.4	21.3	24.0	22.4	34.3	47.4	37.0	19.2	26.9	23.1	34.3	50.9	36.8	17.8	30.0	18.9	94.5	95.8	94.9
26	34.9	52.1	36.0	13.3	30.4	12.5	34.9	38.9	36.1	20.5	25.3	23.1	35.2	36.4	35.6	25.0	28.3	27.2	94.0	94.5	94.4
27	34.8	36.1	35.5	24.8	30.4	27.4	35.2	43.7	39.0	16.2	22.3	19.0	35.3	36.5	35.6	20.5	27.9	24.0	93.1	94.8	93.6
28	34.8	36.8	35.7	20.0	25.7	22.7	35.1	46.1	38.1	15.6	27.5	16.3	35.3	39.7	36.9	17.7	21.0	10.5	93.6	94.0	93.8
29	35.5	42.9	38.7	16.1	20.2	9.8	35.0	36.2	35.6	24.3	27.7	25.4	--	--	--	--	--	--	93.9	94.1	94.0
30	35.0	37.2	35.7	21.5	22.9	6.2	35.2	38.7	36.3	19.3	24.7	21.1	34.8	35.9	35.6	21.3	33.9	28.7	93.2	94.4	94.0
Monthly Total						526.4						470.4						594.9			
Monthly Min/Max/ Avg	34.8	81.5	39.8	11.3	30.4		34.3	98.5	43.1	12.7	28.9		34.3	70.1	38.2	12.6	35.1		93.1	96.7	95.0

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

April 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	35.2	36.4	35.7	24.1	29.7	21.0	35.3	41.2	37.7	21.6	26.0	23.8	36.7	40.5	37.9	21.9	24.9	4.6	94.7	95.8	95.1
2	35.0	36.1	35.7	23.5	26.2	25.3	38.5	100.9	39.3	21.4	22.3	4.0	34.3	43.6	38.8	20.9	30.0	6.2	94.5	95.2	94.8
3	35.3	100.7	35.8	24.9	26.0	9.9	35.2	36.2	35.6	25.4	33.2	26.6	35.0	36.2	35.6	27.0	30.6	28.7	94.9	95.2	94.9
4	35.2	36.0	35.6	24.6	32.6	4.8	35.0	36.2	35.6	25.2	31.3	28.0	35.1	36.2	35.6	24.8	29.1	23.8	93.7	95.3	94.6
5	35.2	36.9	35.6	29.7	32.5	31.2	35.3	41.7	37.5	23.6	26.1	24.9	--	--	--	--	--	--	93.7	95.8	94.8
6	35.3	39.9	37.0	23.9	30.1	26.8	41.0	51.2	42.7	20.4	24.8	2.7	35.0	48.2	37.5	20.5	33.4	17.8	95.7	96.0	95.9
7	35.4	45.7	37.6	18.4	24.1	16.0	35.2	45.2	35.8	20.2	28.9	15.6	35.1	36.1	35.6	26.0	31.7	29.2	94.1	95.7	94.9
8	35.4	37.2	35.9	19.6	20.1	1.3	35.1	36.1	35.6	26.5	30.5	28.6	35.1	36.2	35.6	21.2	27.9	25.1	93.2	94.7	94.3
9	33.9	36.3	35.6	19.8	28.8	26.6	35.2	38.1	35.8	20.6	27.6	24.0	35.4	47.5	37.6	13.6	21.8	13.0	93.2	95.3	93.9
10	34.8	37.2	35.9	23.9	27.7	25.7	37.7	54.7	43.1	16.3	20.9	12.3	37.5	45.0	42.4	19.9	20.7	16.5	93.2	95.2	94.6
11	35.4	47.8	42.4	19.9	24.6	21.8	37.7	48.0	43.6	19.5	24.7	21.7	37.7	47.3	42.0	19.7	24.1	22.2	95.2	95.6	95.4
12	42.5	45.5	43.2	22.3	23.5	1.5	35.2	51.1	39.9	21.3	28.8	26.5	35.3	49.4	39.5	21.5	29.4	26.3	95.1	96.5	95.9
13	35.6	51.8	37.2	19.7	29.1	25.0	35.3	42.3	39.1	26.0	33.7	5.7	35.1	52.9	37.6	20.6	29.8	25.2	95.9	96.5	96.1
14	35.3	37.6	35.9	24.8	28.7	26.7	--	--	--	--	--	--	35.2	37.3	35.8	25.8	29.5	27.5	95.3	95.9	95.7
15	35.4	45.1	36.8	19.4	26.1	15.6	35.2	47.4	36.1	20.2	30.4	10.8	35.2	38.1	36.5	23.2	27.0	24.5	95.1	95.3	95.2
16	35.0	36.0	35.6	24.3	29.2	9.0	35.1	36.2	35.6	25.4	30.1	27.8	37.2	50.3	38.4	16.1	23.7	3.2	94.1	95.3	94.9
17	34.2	36.1	35.6	25.5	28.8	27.0	34.9	36.4	35.7	22.8	25.8	24.8	35.0	39.1	36.0	20.7	31.1	25.7	94.4	94.7	94.5
18	35.2	77.2	35.9	20.9	28.5	18.2	35.2	36.0	36.6	23.0	24.6	1.2	35.0	38.6	35.7	22.5	31.2	28.2	94.7	95.3	94.9
19	36.1	111.6	36.8	19.7	24.4	10.7	35.2	43.7	38.3	20.1	30.0	20.2	36.8	46.3	42.0	18.5	23.4	20.6	95.0	95.4	95.2
20	--	--	--	--	--	--	35.0	38.0	35.8	24.9	31.3	28.5	35.1	51.7	36.4	15.4	33.3	20.9	94.3	95.6	95.1
21	--	--	--	--	--	--	36.9	48.2	41.5	22.1	25.1	23.6	35.0	40.0	37.1	23.0	31.1	27.5	94.7	96.7	95.9
22	45.0	48.8	46.6	19.7	20.7	5.4	41.8	54.3	44.1	17.7	23.4	2.9	35.7	43.4	39.4	22.5	27.1	24.6	95.7	96.2	95.8
23	35.3	47.2	37.4	20.4	29.9	26.7	39.5	42.3	41.0	24.3	25.1	7.5	42.0	53.8	47.9	18.1	23.5	14.2	95.4	96.2	95.9
24	38.1	41.3	39.8	23.1	25.9	24.2	35.4	42.2	39.3	24.1	28.3	25.3	35.0	40.3	37.4	23.6	29.3	12.8	95.5	96.0	95.7
25	35.5	45.9	37.3	18.8	24.2	12.5	34.6	41.1	36.7	21.3	29.5	26.1	34.9	39.0	36.1	23.3	30.6	25.9	94.5	95.8	94.9
26	35.4	51.4	37.7	15.9	24.0	0.1	35.1	36.1	35.6	25.8	29.4	21.5	35.0	36.1	35.6	26.2	30.8	28.7	94.0	94.5	94.4
27	35.1	37.9	35.6	20.4	25.4	8.7	35.2	36.1	35.6	30.6	34.9	26.4	35.1	40.0	35.6	18.5	28.5	15.2	93.1	94.8	93.6
28	35.2	36.0	35.6	23.3	27.9	25.3	35.0	36.1	35.6	27.2	32.3	29.7	34.9	36.3	35.6	25.2	29.7	21.3	93.6	94.0	93.8
29	35.0	36.0	35.6	25.9	29.7	26.8	35.1	36.1	35.6	22.9	27.4	24.8	35.0	36.1	35.6	26.6	29.1	27.8	93.9	94.1	94.0
30	35.1	37.6	35.6	19.7	26.5	13.9	34.9	37.6	35.7	20.6	31.0	14.7	35.0	36.0	35.6	22.5	27.7	25.0	93.2	94.4	94.0
Monthly Total						487.6						560.4						612.3			
Monthly Min/Max/ Avg	33.9	111.6	37.2	15.9	32.6		34.6	100.9	37.9	16.3	34.9		34.3	53.8	37.7	13.6	33.4		93.1	96.7	95.0

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

April 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	--	--	--	--	--	--	67.5	76.1	71.9	70.1	83.7	77.8	74.6	84.2	79.0	73.1	86.5	81.0	47.1	47.5	47.2	72.1	82.2	78.4	96.7	97.3	97.0
2	--	--	--	--	--	--	63.7	73.0	68.3	70.0	84.4	77.8	70.9	82.3	75.4	73.6	87.8	80.8	47.1	47.5	47.2	72.9	83.0	78.5	96.6	97.0	96.9
3	--	--	--	--	--	--	63.4	74.1	68.5	64.6	82.7	74.3	70.6	82.7	75.6	67.8	86.7	77.4	47.1	47.6	47.3	67.7	82.1	74.9	96.6	96.7	96.6
4	--	--	--	--	--	--	64.1	72.8	68.1	64.5	78.4	73.0	71.1	80.9	75.4	68.0	80.7	75.7	47.1	48.1	47.3	69.1	77.6	73.7	96.3	96.7	96.5
5	--	--	--	--	--	--	64.1	73.4	67.5	64.5	79.9	72.3	71.3	80.6	74.7	67.8	82.5	75.3	47.1	48.3	47.3	66.7	77.9	73.0	96.4	96.7	96.4
6	--	--	--	--	--	--	62.0	70.5	65.5	64.9	78.2	72.9	69.9	78.5	72.5	67.6	81.2	75.5	47.1	47.5	47.2	67.1	76.7	73.6	96.4	97.0	96.7
7	--	--	--	--	--	--	61.3	70.3	65.4	65.5	81.0	73.7	67.7	77.0	72.3	67.8	83.6	76.8	47.0	49.2	47.3	67.9	78.6	74.4	96.0	96.6	96.3
8	--	--	--	--	--	--	60.0	153.2	65.3	54.8	80.9	70.8	67.5	175.6	72.5	57.9	82.5	73.3	47.1	106.7	47.3	59.6	79.7	71.5	96.0	96.4	96.2
9	--	--	--	--	--	--	54.5	70.5	59.5	53.6	80.7	71.2	60.4	77.8	65.7	56.3	83.6	74.1	47.0	51.3	47.7	55.7	79.7	71.9	95.3	96.0	95.6
10	48.2	98.9	56.6	75.5	91.1	44.8	60.8	72.4	71.3	59.2	79.3	32.0	67.3	80.5	77.9	56.4	86.4	76.0	47.1	55.3	48.5	55.1	81.4	73.4	95.4	96.6	96.1
11	47.5	57.9	52.4	77.4	92.9	86.1	--	--	--	--	--	--	68.4	81.3	74.6	73.4	88.7	81.4	47.0	47.4	47.2	72.7	82.0	78.7	96.3	97.0	96.5
12	51.2	60.3	54.7	68.2	93.2	80.5	--	--	--	--	--	--	72.5	84.1	79.6	65.6	87.6	76.7	47.1	51.2	47.7	64.4	82.6	73.8	96.7	97.1	96.9
13	48.9	55.7	51.6	67.8	83.0	77.2	--	--	--	--	--	--	78.1	86.5	81.3	65.0	78.2	73.0	47.1	50.4	48.0	64.3	74.6	70.7	96.6	96.8	96.7
14	47.1	57.7	50.5	61.9	83.6	76.3	--	--	--	--	--	--	66.5	81.9	74.8	63.0	81.3	74.2	47.1	51.1	48.0	63.3	74.6	70.2	96.2	96.6	96.4
15	42.6	86.9	56.6	61.3	89.1	74.8	--	--	--	--	--	--	58.0	79.3	70.0	61.2	87.0	74.0	46.9	54.0	48.2	57.0	79.9	68.6	95.6	96.3	96.2
16	63.9	79.8	70.7	71.3	91.3	83.6	--	--	--	--	--	--	52.7	66.3	58.3	71.7	90.1	82.7	46.3	48.2	47.2	66.2	82.1	76.5	95.3	95.8	95.5
17	63.6	76.0	68.9	71.3	91.5	82.4	--	--	--	--	--	--	52.8	63.4	57.2	70.5	89.1	81.1	46.4	49.5	47.2	66.6	81.8	75.1	95.1	95.5	95.4
18	66.9	80.9	72.3	68.4	85.7	78.2	--	--	--	--	--	--	56.0	66.8	60.4	69.2	84.8	77.5	46.5	48.0	47.2	65.2	77.5	71.4	95.1	95.9	95.5
19	60.7	82.2	73.1	70.4	86.0	80.0	--	--	--	--	--	--	49.5	69.1	61.3	69.8	84.3	78.9	44.2	49.2	47.2	65.5	77.4	73.2	95.4	95.8	95.6
20	66.3	86.1	73.0	65.5	93.0	83.4	--	--	--	--	--	--	55.3	71.7	61.1	65.2	92.0	82.4	46.3	49.2	47.2	62.3	83.3	76.6	95.7	96.2	95.9
21	69.6	89.8	78.9	71.5	92.1	82.9	--	--	--	--	--	--	58.7	77.2	66.6	71.2	90.7	81.9	46.1	48.0	47.2	67.1	82.1	75.8	96.0	96.7	96.3
22	62.1	84.8	75.1	70.9	99.5	86.2	--	--	--	--	--	--	49.8	71.0	63.3	70.8	97.4	85.1	44.7	49.2	47.2	65.3	89.1	78.7	96.2	96.6	96.3
23	70.0	98.0	84.0	59.8	98.0	78.5	--	--	--	--	--	--	70.0	82.0	59.0	59.0	95.6	77.0	47.0	58.0	52.5	54.0	88.1	71.0	96.1	96.3	96.2
24	68.9	91.2	78.2	73.1	89.7	83.2	--	--	--	--	--	--	57.4	75.6	64.9	72.1	88.6	81.9	46.2	48.1	47.2	68.1	80.4	76.2	95.5	96.3	96.0
25	56.6	77.9	65.8	72.1	95.7	83.6	--	--	--	--	--	--	46.1	62.6	53.6	71.9	93.8	81.9	46.4	47.8	47.2	68.6	86.0	76.4	94.5	95.5	95.2
26	43.3	66.6	54.7	77.2	96.9	89.5	--	--	--	--	--	--	43.9	88.4	74.1	76.9	94.0	88.0	45.8	48.5	47.2	72.3	86.6	81.9	94.0	94.5	94.3
27	46.9	60.6	52.0	75.8	96.1	88.9	--	--	--	--	--	--	71.1	90.3	77.8	75.2	93.9	87.2	46.4	47.9	47.2	71.3	86.7	81.2	93.6	94.0	93.7
28	50.0	164.1	57.6	66.4	91.7	74.4	49.7	151.4	75.7	68.5	85.1	15.5	47.2	276.2	65.5	66.0	90.7	74.2	44.6	48.0	47.2	29.2	83.8	71.1	93.8	94.4	94.0
29	52.7	75.1	59.2	57.4	84.6	76.2	--	--	--	--	--	--	44.3	64.3	50.2	57.0	83.4	75.1	44.7	48.6	47.2	53.5	76.8	69.5	93.8	94.4	94.0
30	45.4	113.1	55.6	40.0	96.8	81.5	43.3	105.4	75.5	27.6	85.0	33.9	44.1	99.6	68.2	39.4	100.2	82.5	45.7	73.3	47.3	53.0	79.4	39.3	93.6	94.1	93.9
Monthly Total						1,672.1						745.2						2,362.7						2,199.2			
Monthly Min/Max/ Avg	42.6	164.1	63.9	40.0	99.5		43.3	153.2	68.5	27.6	85.1		43.9	276.2	68.8	39.4	100.2		44.2	106.7	47.6	29.2	89.1		93.6	97.3	95.8

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

April 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	8.0	8.3	8.1	14	15	14	7.0	7.0	7.0	7.2	7.2	7.2	7.6	9.1	8.2	7.0	7.0	7.0
2	8.0	8.3	8.2	14	15	14	7.0	7.0	7.0	7.2	7.2	7.2	7.4	9.0	8.2	7.0	7.0	7.0
3	8.0	8.2	8.0	13	14	13	7.0	7.0	7.0	7.2	7.2	7.2	7.7	9.1	8.5	7.0	7.0	7.0
4	8.0	8.1	8.1	13	14	13	7.0	7.0	7.0	7.2	7.2	7.2	7.6	8.7	8.4	7.0	7.0	7.0
5	7.9	8.1	8.0	13	14	13	7.0	7.0	7.0	7.2	7.2	7.2	7.4	9.2	8.3	7.0	7.0	7.0
6	7.9	8.0	7.9	12	13	13	7.0	7.0	7.0	7.2	7.2	7.2	7.5	9.0	8.1	7.0	7.0	7.0
7	7.9	8.0	7.9	12	14	13	7.0	7.0	7.0	7.2	7.2	7.2	7.5	9.0	8.1	7.0	7.0	7.0
8	7.8	8.0	7.9	13	14	13	7.0	7.0	7.0	7.2	7.2	7.2	7.2	8.5	7.8	7.0	7.0	7.0
9	7.9	8.2	8.0	13	15	14	7.0	7.0	7.0	7.2	7.3	7.2	7.4	10	8.3	7.0	7.0	7.0
10	8.1	8.3	8.2	13	14	14	7.0	7.0	7.0	7.2	7.3	7.2	8.5	10	9.3	7.0	7.0	7.0
11	8.2	8.4	8.3	14	16	15	7.0	7.0	7.0	7.1	7.2	7.2	7.0	9.6	8.3	7.0	7.0	7.0
12	8.2	8.5	8.4	14	16	15	7.0	7.0	7.0	7.2	7.2	7.2	7.6	9.3	8.4	7.0	7.0	7.0
13	8.2	8.4	8.3	14	15	14	7.0	7.0	7.0	7.2	7.2	7.2	7.3	9.3	8.0	7.0	7.0	7.0
14	8.1	8.3	8.2	13	15	14	7.0	7.0	7.0	7.2	7.2	7.2	7.8	9.1	8.3	7.0	7.0	7.0
15	8.1	8.3	8.2	14	14	14	7.0	7.0	7.0	7.2	7.2	7.2	7.2	9.5	8.4	7.0	7.0	7.0
16	7.9	8.2	8.0	13	14	14	7.0	7.0	7.0	7.2	7.2	7.2	7.9	8.7	8.4	7.0	7.0	7.0
17	7.9	8.2	8.1	14	15	14	7.0	7.0	7.0	7.2	7.2	7.2	7.1	9.4	8.4	7.0	7.0	7.0
18	8.1	8.2	8.1	13	15	14	7.0	7.0	7.0	7.2	7.2	7.2	7.9	9.3	8.5	7.0	7.0	7.0
19	8.0	8.1	8.1	14	15	14	7.0	7.0	7.0	7.2	7.2	7.2	7.6	9.8	8.8	7.0	7.0	7.0
20	7.9	8.1	8.0	13	15	14	7.0	7.0	7.0	7.2	7.2	7.2	7.8	8.9	8.4	7.0	7.0	7.0
21	7.9	8.1	8.0	13	15	14	7.0	7.0	7.0	7.2	7.2	7.2	7.6	9.4	8.4	7.0	7.0	7.0
22	7.9	8.1	8.0	12	14	13	7.0	7.0	7.0	7.2	7.2	7.2	6.9	8.8	7.8	7.0	7.0	7.0
23	7.9	8.1	8.0	13	14	14	7.0	7.0	7.0	7.1	7.2	7.2	7.4	9.5	8.2	7.0	7.0	7.0
24	8.1	8.4	8.3	14	15	14	7.0	7.0	7.0	7.2	7.3	7.2	7.9	12	9.3	7.0	7.0	7.0
25	8.3	8.5	8.4	15	18	17	7.0	7.0	7.0	7.2	7.3	7.2	9.4	12	10	7.0	7.0	7.0
26	8.4	8.6	8.5	17	18	18	7.0	7.0	7.0	7.2	7.3	7.3	10	13	11	7.0	7.0	7.0
27	8.6	8.9	8.8	18	20	19	7.0	7.0	7.0	7.2	7.3	7.3	9.3	14	12	7.0	7.0	7.0
28	8.9	9.1	9.0	20	23	21	7.0	7.0	7.0	7.2	7.3	7.3	11	14	13	7.0	7.0	7.0
29	9.0	9.2	9.1	20	22	22	7.0	7.0	7.0	7.3	7.4	7.3	13	15	14	7.0	7.0	7.0
30	9.0	9.2	9.1	19	22	21	7.0	7.0	7.0	7.0	7.4	7.3	12	14	13	7.0	7.0	7.0
Monthly Min/Max/Avg	7.8	9.2	8.2	12	23	15	7.0	7.0	7.0	7.0	7.4	7.2	6.9	15	9.1	7.0	7.0	7.0

NOTES: ' -- ' indicates plant offline

1.2.17 Liquid Alum Chemical Consumption

April 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	47.0	46.8	56.0	5,818	8,742	14,561	30,093
2	49.2	49.3	50.9	6,153	9,085	15,238	27,362
3	43.8	43.8	44.7	6,777	8,584	15,361	22,699
4	38.4	38.4	34.1	5,936	7,519	13,455	16,962
5	36.6	36.6	30.5	5,134	7,707	12,840	15,119
6	31.1	31.1	30.2	4,168	6,729	10,897	15,000
7	31.2	31.2	43.5	4,366	6,936	11,302	22,184
8	43.1	43.1	58.9	6,226	9,777	16,004	30,008
9	64.1	64.1	82.5	9,249	14,530	23,779	42,673
10	85.8	86.1	111	12,385	19,521	31,906	57,971
11	90.0	90.0	95.5	12,061	19,489	31,550	53,324
12	76.8	76.8	77.8	9,497	15,835	25,333	40,015
13	63.9	63.9	67.4	7,903	13,173	21,076	33,469
14	54.6	54.6	60.2	6,759	11,267	18,026	29,877
15	50.0	50.0	56.1	6,181	10,303	16,484	28,018
16	45.5	45.6	54.5	6,211	9,970	16,182	30,074
17	37.2	37.1	45.1	4,967	8,019	12,986	24,177
18	34.4	34.4	40.4	4,257	7,095	11,352	20,832
19	33.5	33.5	49.6	4,167	6,911	11,078	25,642
20	32.1	32.1	44.7	4,411	7,060	11,471	24,360
21	29.7	29.8	54.8	4,040	6,496	10,536	29,467
22	40.7	40.7	58.7	5,034	8,385	13,419	32,691
23	52.3	52.5	69.4	7,255	11,521	18,776	20,106
24	56.6	56.6	56.4	9,921	10,508	20,430	30,164
25	30.9	31.0	38.5	5,412	6,773	12,184	21,026
26	35.0	35.0	38.6	6,136	8,308	14,443	22,290
27	34.3	34.2	35.6	5,678	7,792	13,470	20,519
28	29.7	29.7	38.1	4,591	6,437	11,028	20,200
29	33.6	33.8	39.2	4,501	7,074	11,575	20,216
30	34.3	34.3	43.5	4,455	7,278	11,734	23,713
Monthly Total				189,651	288,827	478,478	830,251
Monthly Avg	45.5	45.5	53.5	6,322	9,628	15,949	27,675

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 Chemical Consumption

April 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	0.27	0.27	0.20	16	25	41	51
2	0.30	0.30	0.19	18	27	45	49
3	0.26	0.26	0.19	20	25	45	46
4	0.25	0.25	0.19	19	24	42	45
5	0.25	0.25	0.19	17	26	43	45
6	0.25	0.25	0.19	16	26	43	45
7	0.25	0.25	0.19	17	27	44	46
8	0.26	0.26	0.19	18	29	47	46
9	0.30	0.30	0.23	21	33	54	58
10	0.30	0.30	0.25	21	33	55	63
11	0.40	0.40	0.24	26	42	68	64
12	0.37	0.37	0.20	22	37	59	51
13	0.32	0.32	0.19	19	32	51	45
14	0.30	0.30	0.19	18	30	48	45
15	0.30	0.30	0.21	18	30	48	50
16	0.30	0.30	0.22	20	32	52	59
17	0.30	0.30	0.18	19	31	51	46
18	0.30	0.30	0.15	18	30	48	37
19	0.30	0.30	0.18	18	30	48	45
20	0.30	0.30	0.19	20	32	52	51
21	0.30	0.30	0.22	20	32	52	58
22	0.34	0.34	0.18	20	34	54	49
23	0.35	0.35	0.20	24	37	61	29
24	0.35	0.35	0.18	30	32	61	47
25	0.32	0.32	0.17	27	33	60	45
26	0.30	0.30	0.18	26	35	60	51
27	0.30	0.30	0.15	24	33	57	41
28	0.30	0.30	0.15	23	32	54	39
29	0.31	0.31	0.17	20	31	51	43
30	0.25	0.25	0.18	16	26	42	48
Monthly Total				611	924	1,535	1,438
Monthly Avg	0.30	0.30	0.19	20	31	51	48

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 Praestol DW 27AG is **1.00 mg/L**

1.2.19 Carbon Chemical Consumption

April 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	5.12	4.51	--	307	409	716	--
2	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--
6	--	--	1.31	--	--	--	315
7	6.90	6.38	12.9	468	689	1,157	3,184
8	20.0	21.2	19.5	1,401	2,333	3,734	4,829
9	29.8	30.1	29.3	2,087	3,312	5,399	7,349
10	40.2	39.9	39.1	2,814	4,388	7,202	9,896
11	39.8	40.8	36.8	2,587	4,288	6,875	9,976
12	29.5	29.4	26.6	1,771	2,937	4,709	6,650
13	19.2	18.3	15.1	1,153	1,832	2,984	3,625
14	10.4	10.6	9.80	623	1,060	1,682	2,362
15	9.35	9.25	5.93	561	924	1,485	1,435
16	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--
Monthly Total				13,773	22,171	35,943	49,622
Monthly Avg	21.0	21.0	19.6	1,377	2,217	3,594	4,962

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

April 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	2.73	2.67	20,508	30,232	52,528	3.29	112,691
2	2.72	2.62	20,606	29,276	52,642	3.21	109,912
3	2.58	2.54	24,175	30,189	56,524	3.01	97,603
4	2.53	2.50	23,719	29,687	56,050	2.90	92,053
5	2.64	2.49	22,393	31,808	56,865	2.85	90,409
6	2.57	2.45	20,845	32,155	55,012	2.85	90,244
7	2.57	2.53	21,835	34,090	58,366	2.99	97,408
8	2.69	2.69	23,531	36,978	63,734	3.44	111,772
9	2.99	2.98	26,193	40,945	72,017	4.00	132,090
10	3.01	3.01	26,351	41,380	70,138	4.03	134,350
11	2.92	2.94	23,753	38,622	65,085	3.90	138,834
12	2.75	2.75	20,621	34,366	56,891	3.46	113,521
13	2.54	2.54	19,046	31,747	52,703	3.19	101,200
14	2.64	2.64	19,831	33,051	55,019	3.16	100,050
15	2.72	2.70	20,417	33,749	56,407	3.12	99,506
16	2.64	2.62	21,850	34,710	58,890	3.02	106,167
17	2.50	2.50	20,246	32,727	54,973	3.00	102,521
18	2.50	2.50	18,712	31,185	51,557	2.98	98,025
19	2.31	2.30	17,412	28,777	48,325	2.92	96,332
20	2.35	2.29	19,580	30,577	50,858	2.86	99,472
21	2.32	2.24	19,129	29,688	50,686	2.89	99,293
22	2.36	2.33	17,681	29,153	49,880	2.75	97,765
23	2.33	2.30	19,552	30,594	53,391	2.83	52,277
24	2.34	2.32	24,834	26,110	53,525	2.85	97,230
25	2.54	2.45	26,958	32,470	63,540	3.07	106,758
26	2.56	2.54	27,210	36,497	68,119	3.13	115,309
27	2.55	2.55	25,612	35,210	64,167	3.23	118,635
28	2.55	2.54	23,907	33,327	60,313	3.27	110,362
29	2.60	2.57	21,136	32,656	57,359	3.29	108,391
30	2.75	2.72	21,657	34,988	61,184	3.29	114,613
Monthly Total			659,302	986,944	1,726,748		3,144,792
Monthly Avg	2.59	2.56	21,977	32,898	57,558	3.16	104,826

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

April 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.15	0.10	21	25
2	0.15	0.08	20	21
3	0.15	0.10	23	24
4	0.14	0.13	23	31
5	0.14	0.12	23	29
6	0.14	0.12	23	29
7	0.14	0.12	23	31
8	0.16	0.14	27	35
9	0.24	0.16	41	39
10	0.24	0.16	41	41
11	0.24	0.16	39	42
12	0.24	0.15	37	37
13	0.24	0.15	37	36
14	0.24	0.14	37	35
15	0.24	0.14	37	34
16	0.24	0.16	40	42
17	0.24	0.19	39	49
18	0.24	0.19	36	47
19	0.24	0.20	37	50
20	0.24	0.18	40	49
21	0.24	0.16	39	42
22	0.24	0.16	36	43
23	0.24	0.19	39	26
24	0.24	0.16	39	41
25	0.25	0.15	44	40
26	0.25	0.17	46	49
27	0.25	0.20	44	56
28	0.26	0.23	44	58
29	0.31	0.22	49	55
30	0.34	0.20	53	52
Monthly Total			1,077	1,186
Monthly Avg	0.22	0.16	36	40

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

April 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.57	--	426	--
2	0.52	--	385	--
3	0.53	--	446	--
4	0.57	--	486	--
5	0.57	--	483	--
6	0.57	--	483	--
7	0.57	--	499	--
8	0.57	--	509	--
9	0.57	--	508	--
10	0.57	--	514	--
11	0.57	--	488	--
12	0.57	--	457	--
13	0.57	--	459	--
14	0.57	--	457	--
15	0.57	--	454	--
16	0.57	--	494	--
17	0.57	--	482	--
18	0.57	--	453	--
19	0.57	--	454	--
20	0.57	--	497	--
21	0.57	--	489	--
22	0.57	--	443	--
23	0.57	--	482	--
24	0.57	--	488	--
25	0.57	--	534	--
26	0.57	--	560	--
27	0.57	--	535	--
28	0.57	--	505	--
29	0.57	--	471	--
30	0.57	--	474	--
Monthly Total			14,416	--
Monthly Avg	0.57	--	481	--

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

April 2025

Day	Dosage (mg/L)	Consumption (kg)
	E.L. Smith	E.L. Smith
1	0.55	1,337
2	0.55	1,335
3	0.55	1,276
4	0.55	1,252
5	0.55	1,242
6	0.55	1,251
7	0.56	1,279
8	0.56	1,236
9	0.56	1,246
10	0.56	1,296
11	0.56	1,412
12	0.56	1,325
13	0.56	1,266
14	0.56	1,266
15	0.56	1,245
16	0.56	1,392
17	0.56	1,369
18	0.56	1,303
19	0.56	1,332
20	0.56	1,391
21	0.56	1,383
22	0.56	1,434
23	0.55	669
24	0.56	1,384
25	0.56	1,388
26	0.56	1,488
27	0.56	1,477
28	0.56	1,350
29	0.56	1,266
30	0.56	1,360
Monthly Total		39,251
Monthly Avg	0.56	1,308

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

April 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	8.32	14.4	2,028	6,842
2	9.19	13.5	2,231	6,375
3	9.06	11.1	2,574	5,024
4	7.39	7.85	2,129	3,492
5	6.68	6.35	1,835	2,801
6	6.16	5.19	1,726	2,305
7	5.25	7.00	1,525	3,149
8	6.41	11.2	1,912	4,836
9	12.4	17.7	3,741	7,671
10	17.8	26.7	5,516	12,067
11	21.0	25.9	6,292	12,757
12	20.2	20.8	5,498	9,611
13	17.0	17.7	4,616	7,825
14	14.0	15.6	3,776	6,891
15	11.3	13.9	3,041	6,050
16	10.1	13.9	2,963	6,740
17	7.93	10.7	2,232	5,114
18	6.18	9.15	1,663	4,153
19	6.10	10.1	1,645	4,703
20	5.00	9.98	1,492	4,835
21	4.67	12.5	1,370	6,019
22	4.77	12.0	1,238	6,020
23	8.53	13.8	2,333	3,294
24	9.95	14.2	2,875	6,842
25	4.46	6.35	1,434	3,070
26	3.89	5.98	1,307	3,103
27	4.37	5.30	1,384	2,729
28	3.67	5.38	1,107	2,531
29	3.06	6.74	848	2,977
30	3.26	7.09	905	3,363
Monthly Total			73,236	163,189
Monthly Avg	8.60	11.9	2,441	5,440

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
April 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.68	0.58	443	634
2	0.68	0.59	436	643
3	0.68	0.59	498	615
4	0.68	0.59	505	602
5	0.68	0.60	502	604
6	0.68	0.60	502	612
7	0.68	0.60	520	620
8	0.70	0.60	544	594
9	0.70	0.60	544	599
10	0.71	0.60	558	626
11	0.71	0.64	530	722
12	0.71	0.64	496	680
13	0.71	0.64	497	649
14	0.71	0.64	496	649
15	0.71	0.64	493	639
16	0.71	0.64	534	713
17	0.69	0.64	508	702
18	0.69	0.64	478	668
19	0.69	0.64	479	683
20	0.69	0.64	525	712
21	0.69	0.64	516	708
22	0.69	0.64	468	734
23	0.69	0.63	508	341
24	0.70	0.64	519	709
25	0.69	0.64	566	709
26	0.69	0.63	591	750
27	0.69	0.63	565	744
28	0.69	0.63	533	681
29	0.69	0.63	497	639
30	0.69	0.63	500	686
Monthly Total			15,353	19,669
Monthly Avg	0.69	0.62	512	656

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

April 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	15.0	18.4	517	1,614	13	33
2	18.9	16.1	1,293	1,458	26	35
3	19.2	17.3	775	1,274	15	28
4	20.9	15.9	774	1,119	14	27
5	14.8	14.0	518	1,041	13	29
6	20.6	13.7	775	1,014	14	26
7	12.9	12.2	384	971	11	30
8	18.3	25.0	774	2,558	16	45
9	16.9	19.9	646	2,473	15	43
10	21.1	19.9	776	1,956	14	37
11	17.0	19.8	516	1,801	12	34
12	16.1	23.0	646	1,520	15	26
13	19.6	20.1	774	1,422	15	28
14	15.6	18.7	518	1,386	13	28
15	21.3	17.6	646	1,314	12	28
16	17.3	15.8	517	1,416	11	34
17	20.6	20.6	775	1,623	14	30
18	15.1	21.4	517	2,341	13	34
19	20.3	29.0	715	2,221	13	28
20	16.3	25.4	574	2,114	14	34
21	21.3	23.1	774	2,077	14	34
22	12.8	24.0	516	2,039	15	32
23	14.5	30.3	642	2,688	17	43
24	11.1	25.9	516	2,706	18	26
25	16.2	28.5	778	2,440	18	33
26	11.4	19.0	517	1,536	17	30
27	12.1	18.5	516	1,596	16	34
28	14.9	16.4	648	1,442	17	33
29	20.0	18.6	776	2,002	15	40
30	20.3	31.5	646	3,530	12	43
Monthly Total			19,762	54,693	446	986
Monthly Avg	17.1	20.6	659	1,823	15	33

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

April 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)		309	0.0	94	36	13	452	58.20			387.57		
Solids (kg)	TSS	834,181	0	7,305			841,486						
	Aluminium	20,967	0	2,528			23,495						
# of Bypasses						1		Min	Max	Avg	Min	Max	Avg
pH								6.5	7.6	7.2	6.9	7.8	7.5
Total Chlorine (mg/L)								0.00	0.00	0.00	0.00	0.00	0.00
Sulfite (mg/L)								1.10	20.0	12.9	2.50	20.0	7.03

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

April 2025

		Clarifier Blowdown	Clarifier Washdown *	Backwash Water	Filter To Waste	Bypass	LLP Flush	HLP Cooling	Total	De-chlorinated Waste flow to		
Volume (ML)		222	0.0	285	288	47	1.1	19	861	986		
Solids (kg)	TSS	934,766	0	32,010					966,776			
	Aluminium	36,123	0	11,080					47,203			
# of Bypasses						3				Min	Max	Avg
pH										5.59	8.90	6.60
Total Chlorine (mg/L)										0.00	0.00	0.00
Sulphite (mg/L)										0.10	20.0	13.6

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

April 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
FEBRUARY	3,349	132	139	6,985	267	270	10,334	398	382	1,137	2,226	3,363
MARCH	4,366	169	213	7,128	266	264	11,493	427	381	1,542	2,459	4,001
APRIL	4,663	183	185	6,683	253	245	11,346	436	408	1,504	2,550	4,054

2025 - HIGH 5-DAY DEMAND

	PLANTS PROD (ML/d)	RES. GAIN / LOSS (%)	RES. GAIN / LOSS (ML)	TOTAL DEMAND (ML)
24-Apr-2025	394	-0.6	-3.9	398
25-Apr-2025	407	1.0	6.1	401
26-Apr-2025	436	4.5	28.4	408
27-Apr-2025	424	5.5	34.7	389
28-Apr-2025	391	3.5	21.8	369
			AVERAGE:	393

Year to Date Data	2025	2024	% CHANGE
TOTAL PRODUCTION TO DATE (ML)	44,577	44,110	1.1
AVG. DAILY DEMAND TO DATE (ML)	371	364	2.1
PEAK DAILY DEMAND TO DATE (ML)	408	389	4.8
PEAK HOURLY DEMAND TO DATE (ML)	523	503	4.1
HIGH 5-DAY AVERAGE TO DATE (ML)	393	383	2.5

Peak daily demand of 408 ML/d occurred on April 26, 2025

Peak hourly demand of 523 ML/d occurred on April 26, 2025 at 10:00

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

April 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	1.44	1.69	1.48	1.57	1.64	1.61	1.51	1.63	1.58	1.78	1.87	1.81	1.76	1.82	1.78	1.14	1.40	1.22
2	1.41	1.78	1.48	1.54	1.66	1.59	1.51	1.71	1.58	1.77	1.88	1.80	1.69	1.85	1.77	1.10	1.28	1.15
3	1.45	1.73	1.48	1.53	1.64	1.59	1.52	1.68	1.60	1.77	1.84	1.79	1.71	1.83	1.77	1.05	1.18	1.11
4	1.47	1.47	1.47	1.50	1.62	1.58	1.51	1.65	1.57	1.77	1.85	1.80	1.65	2.02	1.82	1.05	1.15	1.09
5	1.47	1.79	1.49	1.50	1.62	1.59	1.54	1.66	1.60	1.77	1.87	1.81	1.68	1.91	1.81	1.04	1.10	1.07
6	1.41	1.53	1.44	1.47	1.67	1.59	1.56	1.68	1.62	1.79	1.88	1.83	1.78	1.90	1.80	1.03	1.07	1.05
7	1.43	1.75	1.46	1.55	1.68	1.58	1.53	1.71	1.63	1.79	1.88	1.84	1.80	1.83	1.82	1.01	1.11	1.04
8	1.42	1.79	1.47	1.53	1.69	1.60	1.57	1.70	1.63	1.79	1.87	1.83	1.73	1.88	1.82	0.93	1.22	1.04
9	1.47	1.72	1.58	1.55	1.67	1.59	1.58	1.70	1.63	1.78	1.87	1.83	1.67	1.91	1.80	1.07	1.19	1.10
10	1.44	1.76	1.46	1.53	1.63	1.57	1.60	1.67	1.64	1.76	1.88	1.82	1.78	1.81	1.80	1.06	1.16	1.09
11	1.42	1.72	1.46	1.50	1.66	1.59	1.59	1.67	1.63	1.74	1.87	1.80	1.74	1.84	1.78	1.05	1.13	1.08
12	1.43	1.70	1.47	1.56	1.66	1.60	1.57	1.65	1.61	1.72	1.84	1.78	1.71	1.80	1.77	1.02	1.08	1.04
13	1.46	1.79	1.49	1.52	1.62	1.58	1.57	1.63	1.60	1.73	1.84	1.78	1.76	1.79	1.77	0.99	1.04	1.02
14	1.48	1.48	1.48	1.52	1.65	1.58	1.56	1.64	1.60	1.72	1.85	1.79	1.72	1.82	1.77	0.97	1.07	1.00
15	1.46	1.77	1.49	1.51	1.65	1.59	1.57	1.88	1.61	1.73	1.90	1.80	1.66	1.89	1.77	0.96	1.86	1.41
16	1.49	1.80	1.52	1.52	1.65	1.60	1.57	1.63	1.61	1.76	1.86	1.81	1.75	1.81	1.78	1.77	1.86	1.81
17	1.54	1.82	1.55	1.54	1.71	1.61	1.59	1.65	1.63	1.76	1.89	1.82	1.65	1.87	1.79	1.75	2.19	1.98
18	1.79	1.80	1.79	1.47	1.68	1.60	1.56	1.65	1.62	1.80	1.87	1.82	1.72	1.83	1.79	2.09	2.18	2.13
19	1.53	1.82	1.54	1.55	1.67	1.61	1.56	1.65	1.62	1.77	1.87	1.83	1.63	1.90	1.81	2.03	2.12	2.07
20	1.56	1.76	1.56	1.49	1.71	1.62	1.58	1.64	1.62	1.78	1.90	1.84	1.79	1.86	1.82	1.95	2.05	2.00
21	1.56	1.69	1.57	1.57	1.71	1.62	1.56	1.65	1.62	1.80	1.89	1.84	1.80	1.85	1.83	1.84	1.99	1.91
22	1.53	1.76	1.56	1.59	1.65	1.62	1.56	1.65	1.60	1.82	1.92	1.85	1.75	1.87	1.82	1.78	2.15	1.98
23	1.50	1.62	1.52	1.48	1.72	1.61	1.54	1.60	1.58	1.76	1.87	1.82	1.79	1.84	1.81	2.02	2.15	2.07
24	1.51	1.71	1.52	1.49	1.72	1.63	1.56	1.62	1.59	1.78	1.89	1.84	1.78	1.88	1.80	1.94	2.09	2.02
25	1.51	1.81	1.52	1.61	1.82	1.67	1.54	1.65	1.60	1.81	1.92	1.87	1.74	1.91	1.84	1.91	2.05	1.97
26	1.55	1.87	1.56	1.66	1.74	1.69	1.58	1.68	1.64	1.85	1.95	1.90	1.76	1.89	1.87	1.86	1.98	1.90
27	1.56	1.83	1.59	1.61	1.69	1.65	1.62	1.69	1.67	1.81	1.94	1.86	1.73	1.89	1.82	1.79	1.90	1.83
28	1.50	1.83	1.57	1.52	1.67	1.61	1.60	1.68	1.65	1.77	1.89	1.82	1.73	1.85	1.79	1.71	1.94	1.77
29	1.57	1.80	1.59	1.47	1.65	1.59	1.60	1.66	1.63	1.77	1.90	1.82	1.69	1.89	1.78	1.66	2.13	1.91
30	1.55	1.79	1.57	1.49	1.61	1.56	1.54	1.63	1.61	1.77	1.88	1.81	1.58	1.79	1.77	1.99	2.15	2.05
Monthly Min/Max/Avg	1.41	1.87	1.52	1.47	1.82	1.60	1.51	1.88	1.61	1.72	1.95	1.82	1.58	2.02	1.80	0.93	2.19	1.53

NOTES: '--' Indication Analyzer Offline

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

April 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	1.62	1.62	1.62	1.46	1.82	1.65	1.46	1.78	1.50	1.49	1.61	1.57	1.61	1.82	1.64	1.53	1.56	1.55
2	1.62	1.64	1.63	1.30	1.80	1.64	1.45	1.76	1.49	1.48	1.63	1.56	1.60	1.80	1.62	1.53	1.77	1.63
3				1.45	1.78	1.68	1.46	1.73	1.53	1.53	1.58	1.56	1.63	1.84	1.63	1.57	1.66	1.61
4	1.61	1.62	1.62	1.49	1.81	1.66	1.45	1.72	1.47	1.54	1.83	1.57	1.61	1.82	1.62	1.52	1.62	1.59
5				1.41	1.80	1.67	1.41	1.75	1.46	1.51	1.66	1.59	1.59	1.84	1.60	1.55	1.60	1.57
6	1.67	1.69	1.68	1.43	1.87	1.68	1.40	1.79	1.45	1.53	1.61	1.59	1.57	1.87	1.59	1.56	1.60	1.57
7				1.53	1.93	1.69				1.56	1.60	1.58				1.56	1.61	1.58
8	1.66	1.68	1.67	1.48	1.84	1.69	1.47	1.80	1.49	1.57	1.60	1.58	1.59	1.87	1.61	1.58	1.62	1.61
9	1.66	1.67	1.67	1.48	1.85	1.68	1.42	1.77	1.46	1.58	1.60	1.58	1.44	1.83	1.55	1.57	1.61	1.60
10				1.43	1.82	1.69				1.49	1.63	1.57	1.49	1.84	1.53	1.31	1.59	1.57
11	1.60	1.65	1.64	1.49	1.84	1.68	1.41	1.74	1.45	1.49	1.60	1.57	1.54	1.77	1.55	1.20	1.58	1.56
12	1.59	1.66	1.61	1.54	1.85	1.67				1.39	1.75	1.46				1.08	1.57	1.51
13	--	--	--	1.46	1.77	1.68	1.33	1.75	1.45	--	--	--	1.54	1.81	1.55	1.02	1.54	1.50
14	1.57	1.63	1.59	1.32	1.86	1.68	1.42	1.69	1.46	--	--	--	1.51	1.82	1.53	1.44	1.53	1.50
15	--	--	--	1.41	1.85	1.69	1.29	1.73	1.41	1.57	1.73	1.66	1.52	1.83	1.55	1.18	1.55	1.52
16	1.63	1.63	1.63	1.57	1.76	1.68	--	--	--	1.59	1.65	1.60	1.85	1.86	1.85	1.09	1.54	1.51
17	--	--	--	1.59	1.86	1.70	1.43	1.78	1.47	1.58	1.90	1.61	1.53	1.84	1.61	1.37	1.55	1.52
18	1.64	1.66	1.65	1.61	1.86	1.70	1.43	1.76	1.46	1.58	1.62	1.59	1.57	1.84	1.59	1.34	1.54	1.51
19	--	--	--	1.69	1.80	1.74	1.35	1.79	1.46	1.58	1.93	1.59	1.54	1.91	1.61	1.41	1.52	1.50
20	1.61	1.65	1.63	1.59	1.78	1.72	1.46	1.82	1.48	1.56	1.84	1.59	1.49	1.89	1.62	1.31	1.55	1.49
21	--	--	--	1.59	1.82	1.69	1.47	1.78	1.50	1.55	1.80	1.59	1.63	1.90	1.64	1.27	1.54	1.49
22	1.64	1.64	1.64	1.58	1.73	1.68	1.46	1.73	1.50	1.54	1.84	1.59	1.60	1.85	1.64	1.26	1.53	1.47
23	1.65	1.65	1.65	1.58	1.76	1.69	1.46	1.76	1.49	1.55	1.61	1.58	1.61	1.83	1.63	1.39	1.53	1.47
24	--	--	--	1.54	1.77	1.71	1.47	1.73	1.51	1.57	1.59	1.58	1.59	1.83	1.60	1.31	1.49	1.46
25	1.62	1.65	1.64	1.50	1.77	1.72	1.46	1.93	1.52	1.56	1.86	1.59	1.62	1.97	1.63	1.44	1.50	1.48
26	1.63	1.67	1.65	1.63	1.83	1.72	--	--	--	1.57	1.59	1.58	--	--	--	1.45	1.54	1.50
27	1.69	1.69	1.69	1.52	1.83	1.74	1.51	1.72	1.53	1.58	1.90	1.60	--	--	--	1.42	1.53	1.49
28	1.66	1.68	1.67	1.54	1.84	1.71	1.49	1.74	1.53	1.56	1.62	1.59	1.60	1.89	1.63	1.40	1.48	1.45
29	1.66	1.66	1.66	1.57	1.82	1.69	1.41	1.73	1.49	1.56	1.60	1.57	1.57	1.89	1.60	1.21	1.47	1.44
30	--	--	--	1.44	1.82	1.66	1.46	1.73	1.50	1.55	1.58	1.55	1.53	1.84	1.55	1.09	1.48	1.44
Monthly Min/Max/Avg	1.57	1.69	1.64	1.30	1.93	1.69	1.29	1.93	1.48	1.39	1.93	1.58	1.44	1.97	1.61	1.02	1.77	1.52

NOTES: '--' Indication Analyzer Offline

1.2.31 Phosphoric Acid Chemical Consumption

April 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.90	0.90	533	894
2	0.90	0.74	450	718
3	0.90	0.90	592	864
4	0.90	0.90	587	829
5	0.90	0.90	668	856
6	0.90	0.90	518	794
7	0.90	0.88	675	904
8	0.90	0.90	612	774
9	0.90	0.83	550	721
10	0.90	0.90	633	810
11	0.90	0.90	630	867
12	0.90	0.90	549	935
13	1.02	0.90	622	777
14	1.01	0.90	644	802
15	0.90	0.90	569	828
16	0.90	0.90	603	954
17	0.90	0.90	599	871
18	0.90	0.90	536	829
19	0.90	0.90	547	840
20	0.90	0.90	600	882
21	0.90	0.90	619	852
22	0.90	0.90	593	932
23	0.90	0.89	592	394
24	0.90	0.90	557	898
25	0.90	0.90	640	890
26	0.90	0.90	722	944
27	0.90	0.90	694	917
28	0.90	0.90	573	884
29	0.90	0.90	577	849
30	0.90	0.90	549	826
Monthly Total			17,831	25,136
Monthly Avg	0.91	0.89	594	838

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

April 2025

Date and Time Reported	Location of Mainbreak	Repaired (Time)	Size	Type**
2025-04-02 5:49	12503-121 AVENUE NW	2025-04-04 18:00	450	CI
2025-04-02 10:35	10363-104 STREET NW	2025-04-02 11:54	150	CI
2025-04-04 13:38	12846-132 STREET NW	2025-04-04 21:35	250	CI
2025-04-05 6:30	8311-160 STREET NW	2025-04-05 20:38	150	CI
2025-04-07 13:35	1-WESTBROOK DRIVE NW	2025-04-08 12:36	250	CI
2025-04-08 10:29	14902-111 AVENUE NW	2025-04-08 20:22	300	CI
2025-04-08 15:19	13519-91 STREET NW	2025-04-09 15:15	200	CI
2025-04-10 7:16	7803-116 STREET NW	2025-04-10 15:22	150	CI
2025-04-10 10:42	7016-152B AVENUE NW	2025-04-10 20:30	200	AC
2025-04-11 7:30	10978-127 STREET NW	2025-04-11 18:02	150	CI
2025-04-13 2:23	8744-66 AVENUE NW	2025-04-13 12:03	200	CI
2025-04-13 12:20	10175-100 STREET NW	2025-04-13 13:27	300	CI
2025-04-13 15:33	10175-100 STREET NW	2025-04-14 14:34	300	CI
2025-04-14 2:12	12503-122 AVENUE NW	2025-04-14 12:15	150	CI
2025-04-14 5:34	11142-80 AVENUE NW	2025-04-14 14:40	150	CI
2025-04-14 13:27	10507-69 AVENUE NW	2025-04-14 21:55	150	CI
2025-04-17 7:39	8106-122 AVENUE NW		300	CI
2025-04-18 19:19	10642-104 STREET NW	2025-04-19 16:41	150	CI
2025-04-19 8:38	728-HENDRA CRESCENT NW	2025-04-19 19:18	250	AC
2025-04-22 12:18	11910-40 STREET NW	2025-04-22 21:28	150	CI
2025-04-25 12:59	8503-99 STREET NW	2025-04-25 15:30	150	CI
2025-04-30 14:50	11202-94 STREET NW	2025-04-30 18:30	150	CI
2025-04-30 23:16	10920-130 STREET NW	2025-05-01 13:15	150	CI

Month	Total Breaks By Month
Jan-25	26
Feb-25	91
Mar-25	32
Apr-25	23
May-25	
Jun-25	
Jul-25	
Aug-25	
Sep-25	
Oct-25	
Nov-25	
Dec-25	
YTD 2025	**172**

**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

April 2025

Parameter (Units)	#	Mean	Range	YTD #	YTD Mean	YTD Range
Alkalinity total (mg CaCO3/L)	60	104.5	81.0 - 119.0	239	117.0	81.0 - 139.0
Aluminum (mg/L)	2	0.021	0.021	8	0.054	0.021 - 0.087
Arsenic (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Bromate Dissolved (mg/L)	10	<0.005	<0.005	34	<0.005	<0.003 - <0.005
Bromodichloromethane (µg/L)	60	0.8	<0.5 - 1.4	240	0.8	<0.5 - 1.8
Cadmium (mg/L)	2	<0.00002	<0.00002	8	<0.00002	<0.00002
Calcium Hardness (mg/L CaCO3)	58	107.5	90.0 - 119.0	232	116.6	90.0 - 136.0
Chlorate Dissolved (mg/L)	10	0.19	0.08 - 0.31	34	0.17	<0.1 - 0.37
Chloride Dissolved (mg/L)	10	7.1	5.1 - 10.0	34	6.75	4.59 - 14.20
Chlorine total (mg/L)	60	2.09	1.90 - 2.19	240	2.08	1.89 - 2.19
Chlorite Dissolved (mg/L)	10	<0.005	<0.005	34	<0.2	<0.005 - <0.2
Chloroform (µg/L)	60	8.5	4.3 - 21.5	240	8.6	3.5 - 21.5
Chromium (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Colour (TCU)	60	0.8	<0.5 - 1.3	240	0.8	<0.5 - 1.7
Conductivity (µS/cm)	10	384.7	358.0 - 406.0	34	394.6	358.0 - 442.0
Copper (mg/L)	2	<0.002	<0.002	8	<0.002	<0.002
Cryptosporidium (oocysts/100L)	2	<0.1	<0.1	8	<0.1	<0.09 - <0.1
Fluoride (mg/L)	60	0.69	0.62 - 0.78	239	0.68	0.59 - 0.78
Giardia (cysts/100L)	2	<0.1	<0.1	8	<0.1	<0.09 - <0.1
Haloacetic acids total (HAA5) (µg/L)	2	10.5	9.7 - 11.3	8	12.7	7.8 - 21.8
Iron (mg/L)	2	<0.005	<0.005	8	<0.005	<0.005
Manganese (mg/L)	2	<0.002	<0.002	8	<0.002	<0.002
Mercury (µg/L)	2	<0.0050	<0.0050	4	<0.0050	<0.0050
Mercury (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Nitrate (as N) dissolved (mg/L)	10	0.09	0.02 - 0.15	32	0.10	0.02 - 0.18
Nitrite (as N) dissolved (mg/L)	10	0.01	<0.01	32	0.01	<0.01 - 0.01
Nitrosodimethylamine, N- [NDMA] (µg/L)	2	0.00124	<0.00108 - 0.00140	8	<0.0018	<0.0009 - <0.0018
pH	60	8	8	239	8	8
Potassium (mg/L)	2	1.9	1.8 - 1.9	8	1.1	0.6 - 1.9
Sodium (mg/L)	2	15.9	14.8 - 17.0	8	11.1	6.3 - 17.0
Sulphate Dissolved (mg/L)	10	74.2	65.3 - 83.9	34	70.9	59.3 - 83.9
Total Dissolved Solids (mg/L)	2	222.50	222.00 - 223.00	8	205.75	52.00 - 257.00
Total Hardness (mg/L CaCO3)	60	160.5	131.0 - 178.0	240	176.5	131.0 - 212.0
Total Organic Carbon (mg/L)	10	1.4	1.1 - 1.9	34	1.2	0.8 - 1.9
Trihalomethanes (µg/L)	60	9.3	5.2 - 22.9	240	9.6	4.3 - 22.9
Turbidity (NTU)	60	0.05	<0.04 - 0.09	240	0.05	<0.04 - 0.52
Uranium (mg/L)	2	<0.0005	<0.0005	8	0.0005	<0.0005 - 0.0006
Zinc (mg/L)	2	<0.005	<0.005	8	<0.005	<0.005

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
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

2.1.4 QUALITY ASSURANCE – April 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 March 2025. 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 concentration 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	1
Total Variances + Violations	0	1 + 0 = 1

Notes: 1) Variance statistics include any violations.

2) As of March 1st, 2025, both ELS and ROS WTP were converted to Conventional 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	7	20
Chlorine < 1 mg/L or > 2.4 mg/L	3	4
Single Positive Coliform	0	1
THMs > 50 µg/L	0	0
Pipe Lube, Odour, UV positive	1	1
Aluminium[2] > 0.20 (or 0.1) mg/L	1	3
Iron > 0.10 mg/L	1	4
Other	0	0
Total Variances + Violations	13 + 0 = 13	33 + 0 = 33

Notes: 1) Variance statistics include any violations.

2) As of March 1st, 2025 both ELS and ROS WTP were converted to Conventional Filtration mode. Aluminium limit changes from 0.1 mg/L to 0.2 mg/L (operational guideline), when in Direct Filtration.

2.2.1 BACTERIOLOGICAL DATA

Water Treatment Plants

April 2025

Location	#	Mean	Range	YTD #	YTD Mean	YTD Range
EL Smith Raw						
Cellular ATP (pg/mL)	1	158.5	158.5	2	90.0	21.5 - 158.5
Coliforms total (MPN/100 mL)	5	367.5	95.9 - 1024.0	21	466.4	21.3 - 4962.0
E. coli (MPN/100 mL)	5	5.2	2.0 - 20.0	21	5.9	1.0 - 82.0
Rossdale Raw						
Cellular ATP (pg/mL)	1	128.0	128.0	4	48.3	7.6 - 128.0
Coliforms total (MPN/100 mL)	30	381.4	46.4 - 974.0	120	520.9	22.8 - 7308.0
E. coli (MPN/100 mL)	30	13.6	1.0 - 82.0	120	50.2	1.0 - 3328.0
EL Smith Treated						
Cellular ATP (pg/mL)	30	0.2	<0.10 - 1.6	120	0.1	<0.10 - 1.6
Coliforms total (PA/100mL)	30	-VE	-VE	120	-VE	-VE
E. coli (PA/100mL)	30	-VE	-VE	120	-VE	-VE
Rossdale Treated						
Cellular ATP (pg/mL)	30	0.2	<0.10 - 1.2	120	0.1	<0.10 - 1.2
Coliforms total (PA/100mL)	30	-VE	-VE	120	-VE	-VE
E. coli (PA/100mL)	30	-VE	-VE	120	-VE	-VE
EL Smith Reservoir						
Cellular ATP (pg/mL)	30	0.2	<0.10 - 1.4	120	0.1	<0.10 - 1.4
Coliforms total (PA/100mL)	30	-VE	-VE	120	-VE	-VE
E. coli (PA/100mL)	30	-VE	-VE	120	-VE	-VE
Rossdale Reservoir						
Cellular ATP (pg/mL)	30	0.1	<0.10 - 0.3	120	0.1	<0.10 - 0.3
Coliforms total (PA/100mL)	30	-VE	-VE	120	-VE	-VE
E. coli (PA/100mL)	30	-VE	-VE	120	-VE	-VE

2.2.2 BACTERIOLOGICAL DATA

Distribution System

April 2025

Parameter (Units)	#	Mean	Range	YTD #	YTD Mean	YTD Range
Cellular ATP (pg/mL)	138	0.3	<0.10 - 10.0	479	0.2	<0.10 - 10.0
Chlorine total (mg/L)	230	1.89	0.19 - 2.14	844	1.91	0.19 - 2.34
Coliforms total (MPN/100 mL)	5	Not Detected	Not Detected	10	Not Detected	Not Detected
Coliforms total (PA/100mL)	225	-VE	-VE	834	-VE	+VE - -VE
E. coli (MPN/100 mL)	5	Not Detected	Not Detected	10	Not Detected	Not Detected
E. coli (PA/100mL)	225	-VE	-VE	834	-VE	-VE
Turbidity (NTU)	230	0.20	<0.04 - 3.65	844	0.16	<0.04 - 3.65

225

Count of Bacteriological Tests

107%

Percent of Target Sampling (210)

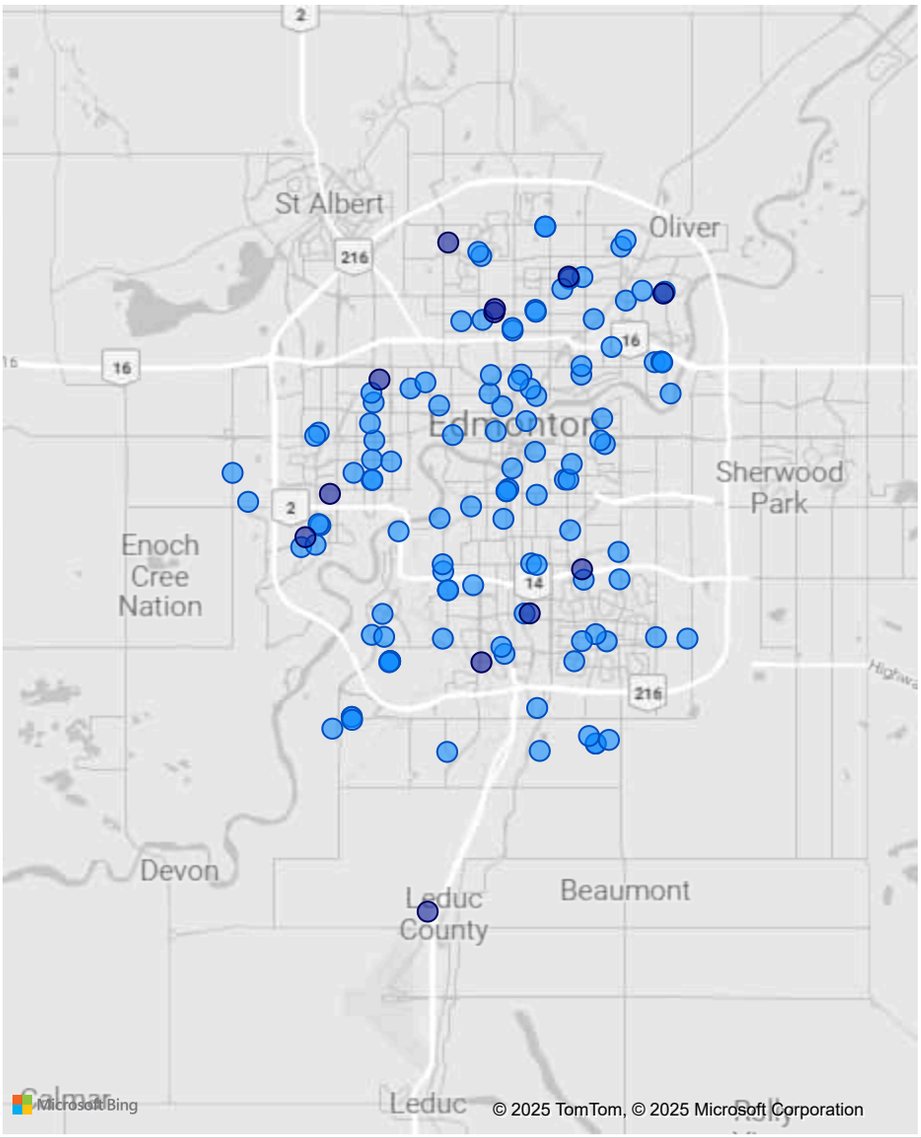
61%

Analyzed by AHS

39%

Analyzed by Epcor

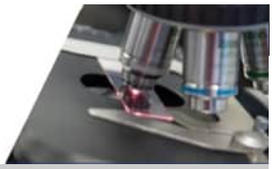
Sampling Type Distribution Water Outlying Field Reservoirs



2.2.3 SUMMARY OF GIARDIA AND CRYPTOSPORIDIUM

Water Treatment Plants

April 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
Mar 11	<2.78	11.1	<0.1	<0.1	<3.76	18.8	<0.09	<0.09
Apr 16	13.0	150.0	<0.1	<0.1	17.0	130.0	<0.1	<0.1
May 05	<7.9	16.0	<0.1	<0.1	<3.2	16.0	<0.1	<0.1

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

April 2025

Parameter (units)	#	Mean	Range	YTD #	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Microbiologicals								
Coliforms total (PA/100mL)	30	-VE	-VE	120	-VE	-VE	0.0	
Cryptosporidium (oocysts/100L)	1	<0.1	<0.1	4	<0.1	<0.09 - <0.1		
E. coli (PA/100mL)	30	-VE	-VE	120	-VE	-VE	0.0	
Giardia (cysts/100L)	1	<0.1	<0.1	4	<0.1	<0.09 - <0.1		
Physical								
Colour (TCU)	30	0.8	<0.5 - 1.3	120	0.9	<0.5 - 1.7	(15.0)	10.0
Conductivity (µS/cm)	5	381.2	358.0 - 399.0	17	395.6	358.0 - 442.0		
pH	30	8	8	119	8	8		7 - 8
Total Dissolved Solids (mg/L)	1	223.00	223.00	4	231.75	211.00 - 257.00	(500.00)	
Turbidity (NTU)	30	0.05	<0.04 - 0.07	120	0.05	<0.04 - 0.09	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.058	0.058	4	0.059	0.054 - 0.065	2.000	
Boron (mg/L)	1	0.019	0.019	4	0.013	0.008 - 0.019	5.000	
Bromate Dissolved (mg/L)	5	<0.005	<0.005	17	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	5	0.28	0.22 - 0.31	17	0.24	0.1 - 0.37	1.00	
Chlorine total (mg/L)	30	2.09	1.93 - 2.18	120	2.09	1.93 - 2.19		
Chlorite Dissolved (mg/L)	5	<0.005	<0.005	17	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0500	
Cyanide (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	0.2000	
Fluoride (mg/L)	30	0.71	0.65 - 0.76	119	0.70	0.64 - 0.76	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0050	
Mercury (µg/L)	1	<0.0050	<0.0050	2	<0.0050	<0.0050	1.0000	
Mercury (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.09	0.02 - 0.15	16	0.10	0.02 - 0.18	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	<0.01	16	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	4	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	4	0.0005	<0.0005 - 0.0006	0.0200	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
2,4-D (µg/L)	1	<0.050	<0.050	2	<0.250	<0.050 - <0.250	100.000	
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)	1	<0.050	<0.050	2	<0.250	<0.050 - <0.250	350.000	
Atrazine + metabolites (µg/L)	1	<0.10	<0.10	2	<0.10	<0.10	5.0	
Benzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0	
Benzo(a)pyrene (µg/L)	1	<0.005	<0.005	2	<0.005	<0.005	0.0400	
Bromoxynil (µg/L)	1	<0.050	<0.050	2	<0.250	<0.050 - <0.250	30.000	
Carbon Tetrachloride (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Chlorpyrifos (µg/L)	1	<0.10	<0.10	2	<0.10	<0.10	90.00	
Cyanazine (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100		
Diazinon (µg/L)	1	<0.0250	<0.0250	2	<0.0250	<0.0250		
Dicamba (µg/L)	1	<0.10	<0.10	2	<0.50	<0.10 - <0.50	110.00	
Dichlorobenzene (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0	
Dichloroethylene (1,1) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	14.0	
Dichlorophenol (2,4) (µg/L)	1	<0.20	<0.20	2	<0.20	<0.20		
Diclofop-methyl (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100		
Dimethoate (µg/L)	1	<0.050	<0.050	2	<0.050	<0.050	20.000	
Diquat (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	50.0	
Diuron (µg/L)	1	<0.050	<0.050	2	<0.050	<0.050		
Ethylbenzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	140.0 (1.6)	
Glyphosate (µg/L)	1	<1.00	<1.00	2	<1.00	<0.20 - <1.00	280.00	
Haloacetic acids total (HAA5) (µg/L)	1	11.3	11.3	4	14.0	11.1 - 21.8	80.0	40.0
Malathion (µg/L)	1	<0.0250	<0.0250	2	<0.0250	<0.0250	290.000	
Methylene Chloride (Dichloromethane) (µg/L)	30	<0.5	<0.5	120	<1.00	<0.5 - <1.00	50.0	
Metolachlor (µg/L)	1	<0.0250	<0.0250	2	<0.0250	<0.0250		
Metribuzin (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100	80.00	
Microcystin total (µg/L)	1	<0.15	<0.15	2	0.16	<0.15 - 0.16	1.50	
Nitrilotriacetic acid (NTA) (mg/L)	1	<0.4	<0.4	2	<0.4	<0.4	0.40	
Nitrosodimethylamine, N- [NDMA] (µg/L)	1	<0.0014	<0.0014	4	<0.0016	<0.0009 - <0.0016	0.04000	0.01000
Omethoate (as dimethoate) (µg/L)	1	<0.16	<0.16	2	<0.16	<0.16		
Pentachlorophenol (µg/L)	1	<0.50	<0.50	2	<0.50	<0.50	60.00 (30.00)	
Perfluorooctanesulfonic acid (PFOS) (ng/L)	1	<2.0	<2.0	2	<2.0	<2.0	2.0	
Perfluorooctanoic Acid (ng/L)	1	<2.0	<2.0	2	<2.0	<2.0	2.0	
Phorate (µg/L)	1	<0.250	<0.250	2	<0.250	<0.250		
Picloram (µg/L)	1	<0.10	<0.10	2	<0.50	<0.10 - <0.50		
Simazine (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100		
Terbufos (µg/L)	1	<0.50	<0.50	2	<0.50	<0.50		
Tetrachloroethylene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	10.0	
Tetrachlorophenol (2,3,4,6) (µg/L)	1	<0.50	<0.50	2	<0.50	<0.50		
Toluene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0	
Trichlorophenol (2,4,6) (µg/L)	1	<0.20	<0.20	2	<0.20	<0.20	5.00 (2.00)	
Trifluralin (µg/L)	1	<0.10	<0.10	2	<0.10	<0.10		
Trihalomethanes (µg/L)	30	10.8	6.8 - 22.9	120	10.9	4.3 - 22.9	100.0	50.0
Vinyl Chloride (µg/L)	30	<1.0	<1.0	120	<1.0	<0.50 - <1.0	2.00	
Xylenes total (µg/L)	30	<1.0	<1.0	120	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	30	104.3	81.0 - 119.0	119	116.9	81.0 - 139.0		
Aluminum (mg/L)	1	0.021	0.021	4	0.054	0.021 - 0.087	2.900 (0.100)	
Ammonia as NH3 (mg/L)	23	0.12	0.06 - 0.18	83	0.11	0.01 - 0.18		
Beryllium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	5	<0.03	<0.03	17	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	45.3	45.3	4	48.8	45.3 - 54.0		
Calcium Hardness (mg/L CaCO3)	30	107.6	90.0 - 119.0	120	116.9	90.0 - 136.0		
Chloride Dissolved (mg/L)	5	7.5	5.2 - 10.0	17	7.29	4.59 - 14.20	(250.00)	
Chlorine free (mg/L)	1	<0.07	<0.07	4	<0.07	<0.07		
Cobalt (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0035	0.0035	4	0.0035	0.0030 - 0.0037		
Magnesium (mg/L)	1	13.7	13.7	4	15.1	13.7 - 17.2		
Manganese (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0010	0.0010	4	0.0008	0.0006 - 0.0010		
Nickel (mg/L)	1	0.0005	0.0005	4	0.0005	<0.0005 - 0.0005		
Phosphate Ortho (as P) (mg/L as P)	1	<0.02	<0.02	4	<0.02	<0.02		
Phosphorus (mg/L)	1	<0.02	<0.02	4	<0.02	<0.02		
Potassium (mg/L)	1	1.9	1.9	4	1.1	0.6 - 1.9		
Silicon (mg/L)	1	2.04	2.04	4	2.11	1.92 - 2.44		
Silver (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002		
Sodium (mg/L)	1	14.8	14.8	4	11.4	6.8 - 16.1	(200.0)	
Strontium (mg/L)	1	0.456	0.456	4	0.468	0.456 - 0.480	7.000	
Sulphate Dissolved (mg/L)	5	71.0	65.3 - 75.6	17	69.8	59.3 - 82.1	(500.0)	
Sulphide (mg/L)	1	<0.0015	<0.0015	2	<0.0015	<0.0015	(0.0500)	
Thallium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	30	160.3	131.0 - 178.0	120	176.5	131.0 - 209.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Xylene (1,4) (µg/L)	30	<0.5	<0.5	120	<0.5	<0.40 - <0.5		
Xylene (1,2) (µg/L)	30	<0.5	<0.5	120	<0.5	<0.30 - <0.5		
Trichloroethane (1,1,1) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Trichlorobenzene (1,2,4) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Trichloroacetic acid (µg/L)	1	5.56	5.56	4	7.21	5.56 - 11.40		
Total Volatile Organics (Non THM) (µg/L)	30	1.0	<1.0 - 1.3	118	1.3	<1.0 - 2.9		
Total Organic Carbon (mg/L)	5	1.5	1.3 - 1.9	17	1.3	0.8 - 1.9		
Tetrachloroethane (1,1,2,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Styrene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Monochloroacetic acid (µg/L)	1	<1.00	<1.00	4	<1.00	<1.00		
Monobromoacetic acid (µg/L)	1	<1.00	<1.00	4	<1.00	<1.00		
Methyl t-Butyl Ether (MTBE) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	100.0 (15.0)	50.0
Methyl Isobutyl Ketone (MIBK) (µg/L)	30	<1.0	<1.0	120	<20	<1.0 - <20		
Dichloropropane (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloroacetic acid (µg/L)	1	5.74	5.74	4	6.75	4.94 - 10.40		
Dibromochloromethane (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dibromoacetic acid (µg/L)	1	<1.00	<1.00	4	<1.00	<1.00		
Chloroform (µg/L)	30	9.7	6.1 - 21.5	120	9.8	3.6 - 21.5	(40.0)	
Bromoform (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Bromodichloromethane (µg/L)	30	0.9	0.6 - 1.4	120	1.0	<0.5 - 1.8		
Bromochloroacetic acid (µg/L)	1	<1.00	<1.00	4	<1.00	<1.00		
Radionuclides								
Tritium (Bq/L)								
Strontium-90 (Bq/L)								
Radium-226 (Bq/L)								
Lead-210 (Bq/L)								
Iodine-131 (Bq/L)								
Gross Beta (Bq/L)								
Gross Alpha (Bq/L)								
Cesium-137 (Bq/L)								

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L Smith Water Treatment Plant

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Microbiologicals								
Coliforms total (PA/100mL)	30	-VE	-VE	120	-VE	-VE	0.0	
Cryptosporidium (oocysts/100L)	1	<0.1	<0.1	4	<0.1	<0.09 - <0.1		
E. coli (PA/100mL)	30	-VE	-VE	120	-VE	-VE	0.0	
Giardia (cysts/100L)	1	<0.1	<0.1	4	<0.1	<0.09 - <0.1		
Physical								
Colour (TCU)	30	0.7	<0.5 - 1.1	120	0.8	<0.5 - 1.7	(15.0)	10.0
Conductivity (µS/cm)	5	388.2	359.0 - 406.0	17	393.7	359.0 - 421.0		
pH	30	8	8	120	8	8		7 - 8
Total Dissolved Solids (mg/L)	1	222.00	222.00	4	179.75	52.00 - 245.00	(500.00)	
Turbidity (NTU)	30	0.05	<0.04 - 0.09	120	0.06	<0.04 - 0.52	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.058	0.058	4	0.059	0.053 - 0.066	2.000	
Boron (mg/L)	1	0.015	0.015	4	0.012	0.008 - 0.016	5.000	
Bromate Dissolved (mg/L)	5	<0.005	<0.005	17	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	5	0.11	0.08 - 0.15	17	0.10	<0.1 - 0.15	1.00	
Chlorine total (mg/L)	30	2.09	1.90 - 2.19	120	2.07	1.89 - 2.19		
Chlorite Dissolved (mg/L)	5	<0.005	<0.005	17	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0500	
Cyanide (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	0.2000	
Fluoride (mg/L)	30	0.66	0.62 - 0.78	120	0.65	0.59 - 0.78	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0050	
Mercury (µg/L)	1	<0.0050	<0.0050	2	<0.0050	<0.0050	1.0000	
Mercury (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.08	0.02 - 0.15	16	0.10	0.02 - 0.16	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	<0.01	16	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	4	0.0003	0.0002 - 0.0004	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	4	0.0005	<0.0005 - 0.0006	0.0200	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L. Smith Water Treatment Plant

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
2,4-D (µg/L)	1	<0.050	<0.050	2	<0.250	<0.050 - <0.250	100.000	
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)	1	<0.050	<0.050	2	<0.250	<0.050 - <0.250	350.000	
Atrazine + metabolites (µg/L)	1	<0.10	<0.10	2	<0.10	<0.10	5.0	
Benzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0	
Benzo(a)pyrene (µg/L)	1	<0.005	<0.005	2	<0.005	<0.005	0.0400	
Bromoxynil (µg/L)	1	<0.050	<0.050	2	<0.250	<0.050 - <0.250	30.000	
Carbon Tetrachloride (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Chlorpyrifos (µg/L)	1	<0.10	<0.10	2	<0.10	<0.10	90.00	
Cyanazine (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100		
Diazinon (µg/L)	1	<0.0250	<0.0250	2	<0.0250	<0.0250		
Dicamba (µg/L)	1	<0.10	<0.10	2	<0.50	<0.10 - <0.50	110.00	
Dichlorobenzene (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0	
Dichloroethylene (1,1) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	14.0	
Dichlorophenol (2,4) (µg/L)	1	<0.20	<0.20	2	<0.20	<0.20		
Diclofop-methyl (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100		
Dimethoate (µg/L)	1	<0.050	<0.050	2	<0.050	<0.050	20.000	
Diquat (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	50.0	
Diuron (µg/L)	1	<0.050	<0.050	2	<0.050	<0.050		
Ethylbenzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	140.0 (1.6)	
Glyphosate (µg/L)	1	<1.00	<1.00	2	<1.00	<0.20 - <1.00	280.00	
Haloacetic acids total (HAA5) (µg/L)	1	11.3	11.3	4	14.0	11.1 - 21.8	80.0	40.0
Malathion (µg/L)	1	<0.0250	<0.0250	2	<0.0250	<0.0250	290.000	
Methylene Chloride (Dichloromethane) (µg/L)	30	<0.5	<0.5	120	<1.00	<0.5 - <1.00	50.0	
Metolachlor (µg/L)	1	<0.0250	<0.0250	2	<0.0250	<0.0250		
Metribuzin (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100	80.00	
Microcystin total (µg/L)	1	<0.15	<0.15	2	0.16	<0.15 - 0.16	1.50	
Nitrilotriacetic acid (NTA) (mg/L)	1	<0.4	<0.4	2	<0.4	<0.4	0.40	
Nitrosodimethylamine, N- [NDMA] (µg/L)	1	<0.0014	<0.0014	4	<0.0016	<0.0009 - <0.0016	0.04000	0.01000
Omethoate (as dimethoate) (µg/L)	1	<0.16	<0.16	2	<0.16	<0.16		
Pentachlorophenol (µg/L)	1	<0.50	<0.50	2	<0.50	<0.50	60.00 (30.00)	
Perfluorooctanesulfonic acid (PFOS) (ng/L)	1	<2.0	<2.0	2	<2.0	<2.0	2.0	
Perfluorooctanoic Acid (ng/L)	1	<2.0	<2.0	2	<2.0	<2.0	2.0	
Phorate (µg/L)	1	<0.250	<0.250	2	<0.250	<0.250		
Picloram (µg/L)	1	<0.10	<0.10	2	<0.50	<0.10 - <0.50		
Simazine (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100		
Terbufos (µg/L)	1	<0.50	<0.50	2	<0.50	<0.50		
Tetrachloroethylene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	10.0	
Tetrachlorophenol (2,3,4,6) (µg/L)	1	<0.50	<0.50	2	<0.50	<0.50		
Toluene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0	
Trichlorophenol (2,4,6) (µg/L)	1	<0.20	<0.20	2	<0.20	<0.20	5.00 (2.00)	
Trifluralin (µg/L)	1	<0.10	<0.10	2	<0.10	<0.10		
Trihalomethanes (µg/L)	30	10.8	6.8 - 22.9	120	10.9	4.3 - 22.9	100.0	50.0
Vinyl Chloride (µg/L)	30	<1.0	<1.0	120	<1.0	<0.50 - <1.0	2.00	
Xylenes total (µg/L)	30	<1.0	<1.0	120	<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

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	30	104.6	90.0 - 117.0	120	117.0	90.0 - 138.0		
Aluminum (mg/L)	1	0.021	0.021	4	0.054	0.021 - 0.082	2.900 (0.100)	
Ammonia as NH3 (mg/L)	23	0.09	0.06 - 0.11	83	0.09	0.01 - 0.15		
Beryllium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	5	<0.03	<0.03	17	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	44.7	44.7	4	48.9	44.7 - 54.9		
Calcium Hardness (mg/L CaCO3)	30	107.8	92.0 - 118.0	120	116.6	92.0 - 137.0		
Chloride Dissolved (mg/L)	5	6.8	5.1 - 7.7	17	6.21	5.02 - 8.96	(250.00)	
Chlorine free (mg/L)	1	<0.07	<0.07	4	<0.07	<0.07		
Cobalt (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0029	0.0029	4	0.0033	0.0029 - 0.0037		
Magnesium (mg/L)	1	13.7	13.7	4	15.1	13.7 - 17.1		
Manganese (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0009	0.0009	4	0.0007	0.0005 - 0.0009		
Nickel (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	1	<0.02	<0.02	4	<0.02	<0.02		
Phosphorus (mg/L)	1	<0.02	<0.02	4	<0.02	<0.02		
Potassium (mg/L)	1	1.8	1.8	4	1.0	0.6 - 1.8		
Silicon (mg/L)	1	1.94	1.94	4	2.08	1.90 - 2.45		
Silver (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002		
Sodium (mg/L)	1	17.0	17.0	4	10.9	6.3 - 17.0	(200.0)	
Strontium (mg/L)	1	0.437	0.437	4	0.461	0.437 - 0.475	7.000	
Sulphate Dissolved (mg/L)	5	77.4	74.2 - 83.9	17	72.0	60.7 - 83.9	(500.0)	
Sulphide (mg/L)	1	<0.0015	<0.0015	2	<0.0015	<0.0015	(0.0500)	
Thallium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	30	160.7	136.0 - 178.0	120	176.5	136.0 - 212.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	4	<0.001	<0.001		

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L. Smith Water Treatment Plant

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Xylene (1,4) (µg/L)	30	<0.5	<0.5	120	<0.5	<0.40 - <0.5		
Xylene (1,2) (µg/L)	30	<0.5	<0.5	120	<0.5	<0.30 - <0.5		
Trichloroethane (1,1,1) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Trichlorobenzene (1,2,4) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Trichloroacetic acid (µg/L)	1	4.63	4.63	4	5.72	3.92 - 9.87		
Total Volatile Organics (Non THM) (µg/L)	30	1.1	<1.0 - 1.3	118	1.2	<1.0 - 3.2		
Total Organic Carbon (mg/L)	5	1.2	1.1 - 1.8	17	1.1	0.8 - 1.8		
Tetrachloroethane (1,1,2,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Styrene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Monochloroacetic acid (µg/L)	1	<1.00	<1.00	4	<1.00	<1.00		
Monobromoacetic acid (µg/L)	1	<1.00	<1.00	4	<1.00	<1.00		
Methyl t-Butyl Ether (MTBE) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	100.0 (15.0)	50.0
Methyl Isobutyl Ketone (MIBK) (µg/L)	30	<1.0	<1.0	120	<20	<1.0 - <20		
Dichloropropane (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloroacetic acid (µg/L)	1	5.05	5.05	4	5.82	3.91 - 9.18		
Dibromochloromethane (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dibromoacetic acid (µg/L)	1	<1.00	<1.00	4	<1.00	<1.00		
Chloroform (µg/L)	30	7.2	4.3 - 17.0	120	7.4	3.5 - 17.0	(40.0)	
Bromoform (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Bromodichloromethane (µg/L)	30	0.7	<0.5 - 1.3	120	0.7	<0.5 - 1.3		
Bromochloroacetic acid (µg/L)	1	<1.00	<1.00	4	<1.00	<1.00		
Radionuclides								
Tritium (Bq/L)								
Strontium-90 (Bq/L)								
Radium-226 (Bq/L)								
Lead-210 (Bq/L)								
Iodine-131 (Bq/L)								
Gross Beta (Bq/L)								
Gross Alpha (Bq/L)								
Cesium-137 (Bq/L)								

2.2.5 TREATED WATER ENTERING THE PLANT RESERVOIR

E.L. Smith and Rossdale Reservoirs

April 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)	30	97.0	94.0	120	97.6	93.0 - 97.6		
UV 254 % Transmittance (UV Abs/cm)	30	0.018	0.013 - 0.027	120	0.018	0.011 - 0.032		
EL Smith Treated								
Turbidity (NTU)	30	0.05	<0.04 - 0.09	120	0.05	<0.04 - 0.10	(3.00)	0.10
Rossdale Filter Effluent								
UV 254 % Transmittance (%T/cm)	30	96.3	94.0	120	97.2	92.3 - 97.2		
UV 254 % Transmittance (UV Abs/cm)	30	0.021	0.017 - 0.027	120	0.020	0.013 - 0.035		
Rossdale Treated								
Turbidity (NTU)	30	0.05	<0.04 - 0.07	120	0.05	<0.04 - 0.09	(3.00)	0.10
Primary Organics								
EL Smith Treated								
Benzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethylene (1,1) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	30	<0.5	<0.5	120	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)	30	6.3	3.5 - 14.2	120	6.7	3.3 - 16.6	100.0	50.0
Xylenes total (µg/L)	30	<1.0	<1.0	120	<1.0	<0.50 - <1.0	90.00 (20.00)	
Rossdale Treated								
Benzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethylene (1,1) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	30	<0.5	<0.5	120	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)	30	8.6	5.9 - 17.6	120	9.2	4.9 - 18.6	100.0	50.0
Xylenes total (µg/L)	30	<1.0	<1.0	120	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.5 TREATED WATER ENTERING THE PLANT RESERVOIR

E.L. Smith and Rossdale Reservoirs

April 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)	5	<0.005	<0.005	17	<0.005	<0.003 - <0.005	0.010	
Chlorate Dissolved (mg/L)	5	0.10	0.08 - 0.14	17	0.138	<0.1 - 0.14	1.00	
Chlorite Dissolved (mg/L)	5	<0.005	<0.005	17	<0.2	<0.005 - <0.2	1.000	
Nitrate (as N) dissolved (mg/L)	5	0.09	0.02 - 0.16	16	0.10	0.02 - 0.16	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	<0.01	16	0.01	<0.01 - 0.01	1.00	
Rossdale Treated								
Bromate Dissolved (mg/L)	5	<0.005	<0.005	17	<0.005	<0.003 - <0.005	0.010	
Chlorate Dissolved (mg/L)	5	0.31	0.23 - 0.41	17	0.25	0.1 - 0.41	1.00	
Chlorite Dissolved (mg/L)	5	<0.005	<0.005	17	<0.2	<0.005 - <0.2	1.000	
Nitrate (as N) dissolved (mg/L)	5	0.09	0.02 - 0.16	16	0.10	0.02 - 0.18	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	<0.01	16	0.01	<0.01 - 0.01	1.00	
Secondary Inorganics								
EL Smith Treated								
Ammonia as NH3 (mg/L)	23	0.09	<0.05 - 0.12	83	0.09	<0.05 - 0.14		
Bromide Dissolved (mg/L)	5	<0.03	<0.03	17	<0.05	<0.03 - <0.05		
Chloride Dissolved (mg/L)	5	6.8	5.0 - 8.3	17	6.18	4.84 - 8.93	(250.00)	
Sulphate Dissolved (mg/L)	5	77.4	73.0 - 83.5	17	72.2	60.5 - 83.5	(500.0)	
Rossdale Treated								
Ammonia as NH3 (mg/L)	23	0.12	<0.05 - 0.15	83	0.13	<0.05 - 1.00		
Bromide Dissolved (mg/L)	5	<0.03	<0.03	17	<0.05	<0.03 - <0.05		
Chloride Dissolved (mg/L)	5	8.3	5.8 - 12.8	17	8.39	4.55 - 16.30	(250.00)	
Sulphate Dissolved (mg/L)	5	70.5	65.0 - 75.1	17	69.8	59.2 - 81.7	(500.0)	

2.2.5 TREATED WATER ENTERING THE PLANT RESERVOIR

E.L. Smith and Rossdale Reservoirs

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
EL Smith Treated								
Bromodichloromethane (µg/L)	30	0.6	<0.5 - 0.8	120	0.6	<0.5 - 0.9		
Bromoform (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	30	5.8	3.0 - 13.4	120	6.0	2.5 - 16.0	(40.0)	
Dibromochloromethane (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Methyl Isobutyl Ketone (MIBK) (µg/L)	30	<1.0	<1.0	120	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	100.0 (15.0)	50.0
Styrene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Total Volatile Organics (Non THM) (µg/L)	30	1.1	<1.0 - 1.3	118	1.3	<1.0 - 3.0		
Trichlorobenzene (1,2,4) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)	30	<0.5	<0.5	120	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)	30	<0.5	<0.5	120	<0.5	<0.40 - <0.5		
Rossdale Treated								
Bromodichloromethane (µg/L)	30	0.8	0.6 - 1.1	120	0.8	<0.5 - 1.8		
Bromoform (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	30	7.8	5.1 - 16.6	120	8.2	3.5 - 17.9	(40.0)	
Dibromochloromethane (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Methyl Isobutyl Ketone (MIBK) (µg/L)	30	<1.0	<1.0	120	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50	100.0 (15.0)	50.0
Styrene (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Total Volatile Organics (Non THM) (µg/L)	30	1.1	<1.0 - 1.3	118	1.2	<1.0 - 2.5		
Trichlorobenzene (1,2,4) (µg/L)	30	<0.5	<0.5	120	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)	30	<0.5	<0.5	120	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)	30	<0.5	<0.5	120	<0.5	<0.40 - <0.5		

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Microbiologicals								
Coliforms total (MPN/100 mL)	5	Not Detected	Not Detected	10	Not Detected	Not Detected		
Coliforms total (PA/100mL)	160	-VE	-VE	615	-VE	+VE - -VE	0.0	
E. coli (MPN/100 mL)	5	Not Detected	Not Detected	10	Not Detected	Not Detected		
E. coli (PA/100mL)	160	-VE	-VE	615	-VE	-VE	0.0	
Physical								
Colour (TCU)	1	<0.5	<0.5	2	0.7	<0.5 - 0.8	(15.0)	10.0
pH	1	8	8	7	8	8		7 - 8
Total Dissolved Solids (mg/L)	1	209.00	209.00	2	217.50	209.00 - 226.00	(500.00)	
Turbidity (NTU)	165	0.24	<0.04 - 3.65	625	0.18	<0.04 - 3.65	(3.00)	1.00
UV Absorbance (UV Abs/cm)	1	0.022	0.022	2	0.025	0.022 - 0.027		
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	3	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	3	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.050	0.050	3	0.058	0.050 - 0.069	2.000	
Boron (mg/L)	1	0.009	0.009	3	0.009	0.008 - 0.011	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	5	<0.005	<0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	3	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.09	0.09	5	0.17	0.09 - 0.31	1.00	
Chlorine total (mg/L)	165	1.89	0.19 - 2.14	625	1.91	0.19 - 2.34		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	5	<0.005	<0.005	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	3	<0.0002	<0.0002	0.0500	
Cyanide (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	0.2000	
Fluoride (mg/L)	1	0.65	0.65	2	0.69	0.65 - 0.73	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	3	<0.0002	<0.0002	0.0050	
Mercury (µg/L)	1	<0.0050	<0.0050	2	<0.0050	<0.0050	1.0000	
Mercury (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.10	0.10	7	0.10	0.09 - 0.12	10.00	
Nitrite (as N) dissolved (mg/L)	1	<0.01	<0.01	7	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	3	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	3	0.0005	<0.0005 - 0.0006	0.0200	

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
2,4-D (µg/L)	1	<0.050	<0.050	2	<0.250	<0.050 - <0.250	100.000	
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)	1	<0.050	<0.050	2	<0.250	<0.050 - <0.250	350.000	
Atrazine + metabolites (µg/L)	1	<0.10	<0.10	2	<0.10	<0.10	5.0	
Benzene (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	5.0	
Benzo(a)pyrene (µg/L)	1	<0.005	<0.005	2	<0.005	<0.005	0.0400	
Bromoxynil (µg/L)	1	<0.050	<0.050	2	<0.250	<0.050 - <0.250	30.000	
Carbon Tetrachloride (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Chlorpyrifos (µg/L)	1	<0.10	<0.10	2	<0.10	<0.10	90.00	
Cyanazine (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100		
Diazinon (µg/L)	1	<0.0250	<0.0250	2	<0.0250	<0.0250		
Dicamba (µg/L)	1	<0.10	<0.10	2	<0.50	<0.10 - <0.50	110.00	
Dichlorobenzene (1,2) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	14.0	
Dichlorophenol (2,4) (µg/L)	1	<0.20	<0.20	2	<0.20	<0.20		
Diclofop-methyl (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100		
Dimethoate (µg/L)	1	<0.050	<0.050	2	<0.050	<0.050	20.000	
Diquat (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	50.0	
Diuron (µg/L)	1	<0.050	<0.050	2	<0.050	<0.050		
Ethylbenzene (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	140.0 (1.6)	
Glyphosate (µg/L)	1	<1.00	<1.00	2	<1.00	<0.20 - <1.00	280.00	
Haloacetic acids total (HAA5) (µg/L)	6	9.6	8.2 - 10.2	24	12.4	7.7 - 20.4	80.0	40.0
Malathion (µg/L)	1	<0.0250	<0.0250	2	<0.0250	<0.0250	290.000	
Methylene Chloride (Dichloromethane) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	50.0	
Metolachlor (µg/L)	1	<0.0250	<0.0250	2	<0.0250	<0.0250		
Metribuzin (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100	80.00	
Microcystin total (µg/L)	1	<0.15	<0.15	2	<0.15	<0.15	1.50	
Nitrilotriacetic acid (NTA) (mg/L)	1	<0.4	<0.4	2	<0.4	<0.4	0.40	
Nitrosodimethylamine, N- [NDMA] (µg/L)	3	0.00151	0.00112 - 0.00196	13	0.00196	<0.0009 - 0.00196	0.04000	0.01000
Omethoate (as dimethoate) (µg/L)	1	<0.16	<0.16	2	<0.16	<0.16		
Pentachlorophenol (µg/L)	1	<0.50	<0.50	2	<0.50	<0.50	60.00 (30.00)	
Perfluorooctanesulfonic acid (PFOS) (ng/L)	1	<2.0	<2.0	2	<2.0	<2.0	2.0	
Perfluorooctanoic Acid (ng/L)	1	<2.0	<2.0	2	<2.0	<2.0	2.0	
Phorate (µg/L)	1	<0.250	<0.250	2	<0.250	<0.250		
Picloram (µg/L)	1	<0.10	<0.10	2	<0.50	<0.10 - <0.50		
Simazine (µg/L)	1	<0.100	<0.100	2	<0.100	<0.100		
Terbufos (µg/L)	1	<0.50	<0.50	2	<0.50	<0.50		
Tetrachloroethylene (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	10.0	
Tetrachlorophenol (2,3,4,6) (µg/L)	1	<0.50	<0.50	2	<0.50	<0.50		
Toluene (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	5.0	
Trichlorophenol (2,4,6) (µg/L)	1	<0.20	<0.20	2	<0.20	<0.20	5.00 (2.00)	
Trifluralin (µg/L)	1	<0.10	<0.10	2	<0.10	<0.10		
Trihalomethanes (µg/L)	6	7.6	6.4 - 9.8	24	10.9	5.1 - 19.7	100.0	50.0
Vinyl Chloride (µg/L)	6	<1.0	<1.0	24	<1.0	<1.0	2.0	
Xylenes total (µg/L)	6	<1.0	<1.0	24	<1.0	<1.0	90.0 (20.0)	

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	109.0	109.0	2	116.5	109.0 - 124.0		
Aluminum (mg/L)	1	0.012	0.012	3	0.116	0.012 - 0.267	2.900 (0.100)	
Ammonia as NH3 (mg/L)	1	0.10	0.09 - 0.11	7	0.14	0.09 - 0.25		
Beryllium (mg/L)	1	<0.0002	<0.0002	3	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	5	<0.03	<0.03		
Calcium (mg/L)	1	47.7	47.7	3	50.7	47.7 - 54.7		
Chloride Dissolved (mg/L)	1	5.9	5.9	5	6.7	5.2 - 11.1	(250.0)	
Chlorine free (mg/L)	1	<0.07	<0.07	2	<0.07	<0.07		
Cobalt (mg/L)	1	<0.0002	<0.0002	3	<0.0002	<0.0002		
Copper (mg/L)	1	0.005	0.005	3	0.004	<0.002 - 0.005	2.000 (1.000)	
Iron (mg/L)	1	0.006	0.006	3	0.040	<0.005 - 0.110	(0.100)	
Lithium (mg/L)	1	0.0029	0.0029	3	0.0036	0.0029 - 0.0048		
Magnesium (mg/L)	1	14.2	14.2	3	15.3	14.2 - 16.0		
Manganese (mg/L)	1	<0.002	<0.002	3	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0006	0.0006	3	0.0007	0.0006 - 0.0007		
Nickel (mg/L)	1	<0.0005	<0.0005	3	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)				5	0.90	0.86 - 0.92		
Phosphorus (mg/L)	1	1.03	1.03	3	1.05	0.94 - 1.18		
Potassium (mg/L)	1	1.1	1.1	3	0.9	0.7 - 1.1		
Silicon (mg/L)	1	1.97	1.97	3	2.18	1.97 - 2.45		
Silver (mg/L)	1	<0.00002	<0.00002	3	<0.00002	<0.00002		
Sodium (mg/L)	1	11.2	11.2	3	13.0	7.0 - 20.8	(200.0)	
Strontium (mg/L)	1	0.465	0.465	3	0.476	0.465 - 0.484	7.000	
Sulphate Dissolved (mg/L)	1	75.3	75.3	5	68.9	63.1 - 75.3	(500.0)	
Sulphide (mg/L)	1	<0.0015	<0.0015	2	<0.0015	<0.0015	(0.0500)	
Thallium (mg/L)	1	<0.0002	<0.0002	3	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	3	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	3	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	174.0	174.0	2	176.5	174.0 - 179.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	3	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	3	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	3	<0.001	<0.001		

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

April 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	6	0.8	0.7 - 0.9	24	0.9	0.6 - 1.3		
Bromoform (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Chloroform (µg/L)	6	6.8	5.6 - 9.1	24	9.8	4.4 - 18.2		
Dibromoacetic acid (µg/L)	6	<1.00	<1.00	24	<1.00	<1.00		
Dibromochloromethane (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Dichloroacetic acid (µg/L)	6	5.09	4.15 - 5.43	24	6.28	3.92 - 10.10		
Dichlorobenzene (1,3) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Methoxychlor (µg/L)	1	<0.0080	<0.0080	2	<0.0080	<0.0080		
Methyl Isobutyl Ketone (MIBK) (µg/L)	6	<1.0	<1.0	24	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5	(15.0)	
Monobromoacetic acid (µg/L)	6	<1.00	<1.00	24	<1.00	<1.00		
Monochloroacetic acid (µg/L)	6	<1.00	<1.00	24	<1.00	<1.00		
Styrene (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	1.1	1.1	7	1.1	0.9 - 1.2		
Total Volatile Organics (Non THM) (µg/L)	6	1.2	<1.0 - 1.3	24	1.2	<1.0 - 2.3		
Trichloroacetic acid (µg/L)	6	4.54	4.02 - 4.91	24	6.10	3.81 - 10.70		
Trichlorobenzene (1,2,4) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Xylene (1,2) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		
Xylene (1,4) (µg/L)	6	<0.5	<0.5	24	<0.5	<0.5		

2.2.7 Additional Distribution System Samples Collected from Water Quality Complaint Investigations

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	13	0.8	<0.5 - 1.3	37	0.8	<0.5 - 1.9	(15.0)	10.0
pH	13	8	8	37	8	8		7 - 8
Turbidity (NTU)	13	0.27	0.05 - 1.65	37	0.27	0.04 - 2.76	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	13	0.0005	<0.0005	37	0.0005	<0.0005	0.0060	
Arsenic (mg/L)	13	0.0002	<0.0002	37	<0.0002	<0.0002	0.0100	
Barium (mg/L)	13	0.059	0.052 - 0.069	37	0.060	0.052 - 0.098	2.000	
Boron (mg/L)	13	0.019	0.009 - 0.035	37	0.017	0.008 - 0.042	5.000	
Cadmium (mg/L)	13	<0.00002	<0.00002	37	0.00002	<0.00002	0.00700	
Chromium (mg/L)	13	0.0002	<0.0002	37	<0.0002	<0.0002	0.0500	
Lead (mg/L)	13	0.0002	<0.0002	37	0.0002	<0.0002 - 0.0018	0.0050	
Mercury (mg/L)								
Selenium (mg/L)	13	0.0002	<0.0002 - 0.0003	37	0.0003	<0.0002 - 0.0004	0.0500	
Total Chlorine (mg/L)	13	1.86	1.45 - 2.14	37	1.87	1.45 - 2.14		1.00 - 2.40
Uranium (mg/L)	13	0.0005	<0.0005	37	0.0005	<0.0005 - 0.0006	0.0200	
Primary Organics								
1,1-Dichloroethylene (µg/L)				1	<0.50	<0.50		
1,2-Dichlorobenzene (µg/L)				1	<0.50	<0.50		
1,2-Dichloroethane (µg/L)				1	<0.50	<0.50		
1,4-Dichlorobenzene (µg/L)				1	<0.50	<0.50		
Benzene (µg/L)	13	<0.5	<0.5	37	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)	13	<0.5	<0.5	37	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	13	<0.5	<0.5	37	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5	14.0	
Dichloromethane (µg/L)				1	<1.00	<1.00		
Ethylbenzene (µg/L)	13	<0.5	<0.5	37	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (µg/L)	13	<0.5	<0.5	36	<1.0	<0.5 - <1.0	50.0	
Tetrachloroethylene (µg/L)	13	<0.5	<0.5	37	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)	13	<0.5	<0.5	37	<0.50	<0.5 - <0.50	60.0 (24.0)	
Total Xylenes (µg/L)	13	<1.0	<1.0	36	<1.0	<1.0	90.0 (20.0)	
Trichloroethylene (µg/L)	13	<0.5	<0.5	37	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)	13	10.6	6.5 - 18.4	36	10.8	5.4 - 21.2	100.0	50.0
Trihalomethanes (THMs), Total (µg/L)				1	17.3	17.3		
Vinyl Chloride (µg/L)	13	<1.0	<1.0	37	<1.0	<0.50 - <1.0	2.00	
Xylenes, Total (µg/L)				1	<0.50	<0.50		

2.2.7 Additional Distribution System Samples Collected from Water Quality Complaint Investigations

April 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		
1,1,2,2-Tetrachloroethane (µg/L)				1	<0.50	<0.50		
1,2,4-Trichlorobenzene (µg/L)				1	<0.50	<0.50		
1,2-Dichloroethylene, cis (µg/L)				1	<0.50	<0.50		
1,2-Dichloroethylene, trans (µg/L)				1	<0.50	<0.50		
1,2-Dichloropropane (µg/L)				1	<0.50	<0.50		
1,3-Dichlorobenzene (µg/L)				1	<0.50	<0.50		
Bromodichloromethane (µg/L)	13	1.0	<0.5 - 1.5	37	1.0	<0.5 - 1.5		
Bromoform (µg/L)	13	<0.5	<0.5	37	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	13	9.5	5.4 - 17.4	37	9.9	4.7 - 19.6		
Dibromochloromethane (µg/L)	13	<0.5	<0.5	37	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5		
Dichloroethylene, cis (1,2) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5		
Dichloroethylene, trans (1,2) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5		
m+p-Xylene (µg/L)				1	<0.40	<0.40		
Methyl Isobutyl Ketone (MIBK) (µg/L)				1	<20	<20		
Methyl t-Butyl Ether (MTBE) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5	(15.0)	
Methyl-tert-butyl ether (MTBE) (µg/L)				1	<0.50	<0.50		
MIBK (µg/L)	13	<1.0	<1.0	36	<1.0	<1.0		
o-Xylene (µg/L)				1	<0.30	<0.30		
Styrene (µg/L)	13	<0.5	<0.5	37	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5		
Total Volatile Organics (NonTHM) (µg/L)	13	1.1	<1.0 - 1.4	36	1.2	<1.0 - 3.1		
Trichlorobenzene (1,2,4) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5		
Xylene (1,2) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5		
Xylene (1,4) (µg/L)	13	<0.5	<0.5	36	<0.5	<0.5		

2.2.7 Additional Distribution System Samples Collected from Water Quality Complaint Investigations

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Aluminum (mg/L)	13	0.059	0.012 - 0.571	37	0.088	0.012 - 1.280	2.900 (0.100)	
Beryllium (mg/L)	13	0.0002	<0.0002	37	<0.0002	<0.0002		
Calcium (mg/L)	13	45.9	41.7 - 49.3	37	48.9	41.7 - 56.7		
Calcium Hardness Calculated (mg/L CaCO3)				1	126.0	126.0		
Cobalt (mg/L)	13	0.0002	<0.0002 - 0.0004	37	0.0002	<0.0002 - 0.0004		
Copper (mg/L)	13	0.003	<0.002 - 0.005	37	0.003	<0.002 - 0.006	2.000 (1.000)	
Free Chlorine (mg/L)				1	<0.07	<0.07		
Iron (mg/L)	13	0.023	<0.005 - 0.104	37	0.038	<0.005 - 0.547	(0.100)	
Lithium (mg/L)	13	0.0035	0.0025 - 0.0052	37	0.0036	0.0025 - 0.0052		
Magnesium (mg/L)	13	13.4	12.0 - 14.4	37	14.5	12.0 - 17.2		
Manganese (mg/L)	13	0.002	<0.002 - 0.004	37	0.002	<0.002 - 0.006	0.120 (0.020)	
Molybdenum (mg/L)	13	0.0008	0.0007 - 0.0010	37	0.0007	0.0005 - 0.0010		
Nickel (mg/L)	13	0.0006	<0.0005 - 0.0013	37	0.0005	<0.0005 - 0.0013		
Phosphorus (mg/L)	13	1.00	0.85 - 1.38	37	1.03	0.85 - 1.92		
Potassium (mg/L)	13	1.6	0.9 - 2.6	37	1.3	0.6 - 2.6		
Silicon (mg/L)	13	2.05	1.74 - 2.36	37	2.17	1.74 - 2.72		
Silver (mg/L)	13	<0.00002	<0.00002	37	0.00002	<0.00002		
Sodium (mg/L)	13	14.4	10.8 - 19.2	37	11.9	6.0 - 19.3	(200.0)	
Strontium (mg/L)	13	0.431	0.383 - 0.460	37	0.458	0.383 - 0.495	7.000	
Thallium (mg/L)	13	0.0002	<0.0002	37	<0.0002	<0.0002		
Tin (mg/L)	13	0.0005	<0.0005	37	0.0005	<0.0005		
Titanium (mg/L)	13	0.0005	<0.0005	37	0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	170.0	170.0	1	170.0	170.0		
Total Hardness Calculated (mg/L CaCO3)	12	169.5	154.0 - 183.0	35	182.0	154.0 - 211.0		
Vanadium (mg/L)	13	0.0005	<0.0005	37	0.0005	<0.0005		
Zinc (mg/L)	13	0.006	<0.005 - 0.013	37	0.005	<0.005 - 0.013	(5.000)	
Zirconium (mg/L)	13	0.001	<0.001	37	0.001	<0.001		

2.2.8 Castledowns Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	0.5	0.5	2	0.8	0.5 - 1.0	(15.0)	10.0
Conductivity (µS/cm)	1	403.0	403.0	2	405.5	403.0 - 408.0		
pH	1	8	8	2	8	8		7 - 8
Turbidity (NTU)	5	0.07	0.06 - 0.07	17	0.10	0.06 - 0.15	(3.00)	1.00
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	7.6	7.6	2	12.2	7.6 - 16.8	100.0	50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	90.0 (20.0)	
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.055	0.055	2	0.060	0.055 - 0.065	2.000	
Boron (mg/L)	1	0.017	0.017	2	0.013	0.009 - 0.017	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.10	0.10	2	0.11	0.10 - 0.11	1.00	
Chlorine total (mg/L)	5	1.81	1.75 - 1.87	17	1.92	1.75 - 2.10		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.64	0.64	2	0.65	0.64 - 0.65	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.13	0.13	2	0.12	0.12 - 0.13	10.00	
Nitrite (as N) dissolved (mg/L)	1	<0.01	<0.01	2	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	2	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	2	0.0006	<0.0005 - 0.0006	0.0200	

2.2.8 Castledowns Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	109.0	109.0	2	118.5	109.0 - 128.0		
Aluminum (mg/L)	1	0.016	0.016	2	0.047	0.016 - 0.077	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.13	0.12 - 0.15	17	0.13	0.09 - 0.15		
Beryllium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	2	<0.03	<0.03		
Calcium (mg/L)	1	46.8	46.8	2	50.4	46.8 - 54.0		
Calcium Hardness (mg/L CaCO3)	1	117.0	117.0	2	126.0	117.0 - 135.0		
Chloride Dissolved (mg/L)	1	7.3	7.3	2	6.5	5.8 - 7.3	(250.0)	
Cobalt (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0030	0.0030	2	0.0033	0.0030 - 0.0036		
Magnesium (mg/L)	1	14.1	14.1	2	15.4	14.1 - 16.7		
Manganese (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0008	0.0008	2	0.0008	0.0008		
Nickel (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.91	0.88 - 0.94	17	0.92	0.88 - 0.96		
Phosphorus (mg/L)	1	0.97	0.97	2	0.98	0.97 - 0.98		
Potassium (mg/L)	1	1.5	1.5	2	1.2	0.8 - 1.5		
Silicon (mg/L)	1	1.96	1.96	2	2.20	1.96 - 2.43		
Silver (mg/L)	1	<0.00002	<0.00002	2	<0.00002	<0.00002		
Sodium (mg/L)	1	14.2	14.2	2	11.0	7.7 - 14.2	(200.0)	
Strontium (mg/L)	1	0.458	0.458	2	0.462	0.458 - 0.466	7.000	
Sulphate Dissolved (mg/L)	1	79.5	79.5	2	77.1	74.7 - 79.5	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	175.0	175.0	2	189.5	175.0 - 204.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	2	<0.001	<0.001		

2.2.8 Castledowns Reservoir

April 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	2	0.9	0.8 - 1.0		
Bromoform (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Chloroform (µg/L)	1	6.8	6.8	2	11.3	6.8 - 15.7		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	1.0	1.0	2	1.3	1.0 - 1.5		
Total Volatile Organics (Non THM) (µg/L)	1	1.3	1.3	2	1.2	<1.0 - 1.3		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		

2.2.9 Clareview Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				2	0.9	0.8 - 0.9	(15.0)	10.0
Conductivity (µS/cm)				2	392.5	366.0 - 419.0		
pH				2	8	8		7 - 8
Turbidity (NTU)	5	0.13	0.10 - 0.17	17	0.11	0.08 - 0.17	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				2	<0.0002	<0.0002	0.0100	
Barium (mg/L)				2	0.058	0.055 - 0.060	2.000	
Boron (mg/L)				2	0.016	0.008 - 0.023	5.000	
Bromate Dissolved (mg/L)				2	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)				2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				2	0.16	0.1 - 0.23	1.00	
Chlorine total (mg/L)	5	1.91	1.88 - 1.92	17	1.94	1.88 - 2.05		1.00 - 2.40
Chlorite Dissolved (mg/L)				2	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)				2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				2	0.67	0.66 - 0.68	1.50	0.60 - 0.80
Lead (mg/L)				2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)				2	0.14	0.10 - 0.17	10.00	
Nitrite (as N) dissolved (mg/L)				2	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)				2	0.0002	0.0002	0.0500	
Uranium (mg/L)				2	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)				2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)				2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)				2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)				2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)				2	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				2	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)				2	<0.5	<0.5	10.0	
Toluene (µg/L)				2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)				2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)				2	12.5	11.3 - 13.6	100.0	50.0
Vinyl Chloride (µg/L)				2	<1.0	<1.0	2.0	
Xylenes total (µg/L)				2	<1.0	<1.0	90.0 (20.0)	

2.2.9 Clareview Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				2	116.0	109.0 - 123.0		
Aluminum (mg/L)				2	0.054	0.032 - 0.076	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.14	0.13 - 0.17	17	0.14	0.10 - 0.17		
Beryllium (mg/L)				2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				2	<0.05	<0.03 - <0.05		
Calcium (mg/L)				2	46.7	46.7		
Calcium Hardness (mg/L CaCO3)				2	117.0	117.0		
Chloride Dissolved (mg/L)				2	8.57	5.14 - 12.00	(250.00)	
Cobalt (mg/L)				2	<0.0002	<0.0002		
Copper (mg/L)				2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				2	0.013	0.010 - 0.016	(0.100)	
Lithium (mg/L)				2	0.0034	0.0030 - 0.0038		
Magnesium (mg/L)				2	14.7	14.6 - 14.8		
Manganese (mg/L)				2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				2	0.0009	0.0006 - 0.0011		
Nickel (mg/L)				2	0.0005	<0.0005 - 0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.90	0.86 - 0.92	17	0.90	0.86 - 0.92		
Phosphorus (mg/L)				2	0.95	0.93 - 0.96		
Potassium (mg/L)				2	1.5	0.7 - 2.2		
Silicon (mg/L)				2	2.02	1.92 - 2.11		
Silver (mg/L)				2	<0.00002	<0.00002		
Sodium (mg/L)				2	12.5	6.5 - 18.4	(200.0)	
Strontium (mg/L)				2	0.464	0.448 - 0.479	7.000	
Sulphate Dissolved (mg/L)				2	71.0	60.8 - 81.2	(500.0)	
Thallium (mg/L)				2	<0.0002	<0.0002		
Tin (mg/L)				2	<0.0005	<0.0005		
Titanium (mg/L)				2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				2	177.0	176.0 - 178.0		
Vanadium (mg/L)				2	<0.0005	<0.0005		
Zinc (mg/L)				2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				2	<0.001	<0.001		

2.2.9 Clareview Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				2	1.3	0.9 - 1.6		
Bromoform (µg/L)				2	<0.5	<0.5		
Chloroform (µg/L)				2	11.2	9.6 - 12.7		
Dibromochloromethane (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)				2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)				2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)				2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)				2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)				2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)				2	<0.5	<0.5	(15.0)	
Styrene (µg/L)				2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)				2	<0.5	<0.5		
Total Organic Carbon (mg/L)				2	1.2	1.0 - 1.4		
Total Volatile Organics (Non THM) (µg/L)				2	1.8	<1.0 - 2.5		
Trichlorobenzene (1,2,4) (µg/L)				2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)				2	<0.5	<0.5		
Xylene (1,2) (µg/L)				2	<0.5	<0.5		
Xylene (1,4) (µg/L)				2	<0.5	<0.5		

2.2.10 Discovery Park Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				2	0.7	0.6 - 0.8	(15.0)	10.0
Conductivity (µS/cm)				2	379.5	371.0 - 388.0		
pH				2	8	8		7 - 8
Turbidity (NTU)	5	0.19	0.11 - 0.28	17	0.22	0.08 - 0.65	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				2	<0.0002	<0.0002	0.0100	
Barium (mg/L)				2	0.058	0.056 - 0.059	2.000	
Boron (mg/L)				2	0.010	0.008 - 0.012	5.000	
Bromate Dissolved (mg/L)				2	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)				2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				2	0.10	<0.1 - 0.11	1.00	
Chlorine total (mg/L)	5	1.41	1.17 - 1.80	17	1.46	1.14 - 1.87		1.00 - 2.40
Chlorite Dissolved (mg/L)				2	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)				2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				2	0.68	0.68	1.50	0.60 - 0.80
Lead (mg/L)				2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)				2	0.11	0.10 - 0.11	10.00	
Nitrite (as N) dissolved (mg/L)				2	<0.01	<0.01	1.00	
Selenium (mg/L)				2	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)				2	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)				2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)				2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)				2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)				2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)				2	<0.5	<0.5	140.0 (1.6)	
Haloacetic acids total (HAA5) (µg/L)								
Methylene Chloride (Dichloromethane) (µg/L)				2	<0.5	<0.5	50.0	
Nitrosodimethylamine, N- [NDMA] (µg/L)								
Tetrachloroethylene (µg/L)				2	<0.5	<0.5	10.0	
Toluene (µg/L)				2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)				2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)				2	12.6	12.6	100.0	50.0
Vinyl Chloride (µg/L)				2	<1.0	<1.0	2.0	
Xylenes total (µg/L)				2	<1.0	<1.0	90.0 (20.0)	

2.2.10 Discovery Park Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				2	117.5	117.0 - 118.0		
Aluminum (mg/L)				2	0.120	0.071 - 0.168	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.15	0.13 - 0.16	17	0.15	0.12 - 0.20		
Beryllium (mg/L)				2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				2	<0.05	<0.03 - <0.05		
Calcium (mg/L)				2	47.2	46.6 - 47.8		
Calcium Hardness (mg/L CaCO3)				2	117.5	116.0 - 119.0		
Chloride Dissolved (mg/L)				2	6.00	5.70 - 6.29	(250.00)	
Cobalt (mg/L)				2	<0.0002	<0.0002		
Copper (mg/L)				2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				2	0.006	0.005 - 0.007	(0.100)	
Lithium (mg/L)				2	0.0030	0.0030		
Magnesium (mg/L)				2	15.0	14.9 - 15.0		
Manganese (mg/L)				2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				2	0.0006	0.0006		
Nickel (mg/L)				2	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.93	0.92 - 0.94	17	0.93	0.90 - 0.98		
Phosphorus (mg/L)				2	1.00	0.95 - 1.04		
Potassium (mg/L)				2	0.9	0.7 - 1.0		
Silicon (mg/L)				2	1.98	1.92 - 2.04		
Silver (mg/L)				2	<0.00002	<0.00002		
Sodium (mg/L)				2	7.7	6.7 - 8.7	(200.0)	
Strontium (mg/L)				2	0.473	0.466 - 0.480	7.000	
Sulphate Dissolved (mg/L)				2	64.0	61.7 - 66.2	(500.0)	
Thallium (mg/L)				2	<0.0002	<0.0002		
Tin (mg/L)				2	<0.0005	<0.0005		
Titanium (mg/L)				2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				2	179.5	178.0 - 181.0		
Vanadium (mg/L)				2	<0.0005	<0.0005		
Zinc (mg/L)				2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				2	<0.001	<0.001		

2.2.10 Discovery Park Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				2	0.8	0.8		
Bromoform (µg/L)				2	<0.5	<0.5		
Chloroform (µg/L)				2	11.6	11.4 - 11.8		
Dibromoacetic acid (µg/L)								
Dibromochloromethane (µg/L)				2	<0.5	<0.5		
Dichloroacetic acid (µg/L)								
Dichlorobenzene (1,3) (µg/L)				2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)				2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)				2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)				2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)				2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)				2	<0.5	<0.5	(15.0)	
Monobromoacetic acid (µg/L)								
Monochloroacetic acid (µg/L)								
Styrene (µg/L)				2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)				2	<0.5	<0.5		
Total Organic Carbon (mg/L)				2	1.0	0.9 - 1.0		
Total Volatile Organics (Non THM) (µg/L)				2	1.5	1.1 - 1.9		
Trichloroacetic acid (µg/L)								
Trichlorobenzene (1,2,4) (µg/L)				2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)				2	<0.5	<0.5		
Xylene (1,2) (µg/L)				2	<0.5	<0.5		
Xylene (1,4) (µg/L)				2	<0.5	<0.5		

2.2.11 Kaskitayo Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				2	0.9	<0.5 - 1.3	(15.0)	10.0
Conductivity (µS/cm)				2	395.5	375.0 - 416.0		
pH				2	8	8		7 - 8
Turbidity (NTU)	5	0.11	0.07 - 0.14	17	0.10	0.07 - 0.21	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				2	<0.0002	<0.0002	0.0100	
Barium (mg/L)				2	0.060	0.057 - 0.062	2.000	
Boron (mg/L)				2	0.017	0.008 - 0.026	5.000	
Bromate Dissolved (mg/L)				2	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)				2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				2	0.10	<0.1 - 0.10	1.00	
Chlorine total (mg/L)	5	2.03	1.99 - 2.06	17	2.02	1.92 - 2.10		1.00 - 2.40
Chlorite Dissolved (mg/L)				2	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)				2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				2	0.68	0.66 - 0.70	1.50	0.60 - 0.80
Lead (mg/L)				2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)				2	0.12	0.10 - 0.14	10.00	
Nitrite (as N) dissolved (mg/L)				2	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)				2	0.0003	0.0003	0.0500	
Uranium (mg/L)				2	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)				2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)				2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)				2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)				2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)				2	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				2	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)				2	<0.5	<0.5	10.0	
Toluene (µg/L)				2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)				2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)				2	8.6	7.7 - 9.4	100.0	50.0
Vinyl Chloride (µg/L)				2	<1.0	<1.0	2.0	
Xylenes total (µg/L)				2	<1.0	<1.0	90.0 (20.0)	

2.2.11 Kaskitayo Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				2	115.5	115.0 - 116.0		
Aluminum (mg/L)				2	0.061	0.028 - 0.094	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.11	0.10 - 0.12	17	0.11	0.07 - 0.14		
Beryllium (mg/L)				2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				1	<0.03	<0.03		
Calcium (mg/L)				2	47.9	47.8 - 48.0		
Calcium Hardness (mg/L CaCO3)				2	119.5	119.0 - 120.0		
Chloride Dissolved (mg/L)				2	7.25	5.43 - 9.06	(250.00)	
Cobalt (mg/L)				2	<0.0002	<0.0002		
Copper (mg/L)				2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				2	<0.005	<0.005	(0.100)	
Lithium (mg/L)				2	0.0033	0.0031 - 0.0035		
Magnesium (mg/L)				2	14.8	14.7 - 14.9		
Manganese (mg/L)				2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				2	0.0008	0.0006 - 0.0009		
Nickel (mg/L)				2	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.94	0.92 - 0.96	17	0.94	0.90 - 0.98		
Phosphorus (mg/L)				2	1.00	0.98 - 1.01		
Potassium (mg/L)				2	1.3	0.7 - 1.8		
Silicon (mg/L)				2	2.03	1.99 - 2.06		
Silver (mg/L)				2	<0.00002	<0.00002		
Sodium (mg/L)				2	11.1	6.6 - 15.6	(200.0)	
Strontium (mg/L)				2	0.471	0.459 - 0.483	7.000	
Sulphate Dissolved (mg/L)				2	70.1	61.0 - 79.2	(500.0)	
Thallium (mg/L)				2	<0.0002	<0.0002		
Tin (mg/L)				2	<0.0005	<0.0005		
Titanium (mg/L)				2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				2	180.5	180.0 - 181.0		
Vanadium (mg/L)				2	<0.0005	<0.0005		
Zinc (mg/L)				2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				2	<0.001	<0.001		

2.2.11 Kaskitayo Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				2	0.9	0.8 - 0.9		
Bromoform (µg/L)				2	<0.5	<0.5		
Chloroform (µg/L)				2	7.5	6.7 - 8.2		
Dibromochloromethane (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)				2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)				2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)				2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)				2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)				2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)				2	<0.5	<0.5	(15.0)	
Styrene (µg/L)				2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)				2	<0.5	<0.5		
Total Organic Carbon (mg/L)				2	1.0	0.9 - 1.0		
Total Volatile Organics (Non THM) (µg/L)				2	1.9	<1.0 - 2.8		
Trichlorobenzene (1,2,4) (µg/L)				2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)				2	<0.5	<0.5		
Xylene (1,2) (µg/L)				2	<0.5	<0.5		
Xylene (1,4) (µg/L)				2	<0.5	<0.5		

2.2.12 Londonderry Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	0.8	0.8	2	1.0	0.8 - 1.2	(15.0)	10.0
Conductivity (µS/cm)	1	396.0	396.0	2	401.5	396.0 - 407.0		
pH	1	8	8	2	8	8		7 - 8
Turbidity (NTU)	5	0.08	0.06 - 0.12	17	0.10	0.06 - 0.18	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.052	0.052	2	0.058	0.052 - 0.064	2.000	
Boron (mg/L)	1	0.011	0.011	2	0.010	0.009 - 0.011	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.23	0.23	2	0.21	0.20 - 0.23	1.00	
Chlorine total (mg/L)	5	1.98	1.97 - 1.99	17	1.99	1.95 - 2.04		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.70	0.70	2	0.69	0.68 - 0.70	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.12	0.12	2	0.11	0.09 - 0.12	10.00	
Nitrite (as N) dissolved (mg/L)	1	<0.01	<0.01	2	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	2	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	2	0.0006	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	10.1	10.1	2	14.3	10.1 - 18.5	100.0	50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	90.0 (20.0)	

2.2.12 Londonderry Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	107.0	107.0	2	118.5	107.0 - 130.0		
Aluminum (mg/L)	1	0.017	0.017	2	0.048	0.017 - 0.078	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.14	0.12 - 0.15	17	0.13	0.11 - 0.16		
Beryllium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	2	<0.03	<0.03		
Calcium (mg/L)	1	46.6	46.6	2	50.0	46.6 - 53.3		
Calcium Hardness (mg/L CaCO3)	1	116.0	116.0	2	124.5	116.0 - 133.0		
Chloride Dissolved (mg/L)	1	8.7	8.7	2	6.9	5.1 - 8.7	(250.0)	
Cobalt (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0033	0.0033	2	0.0035	0.0033 - 0.0036		
Magnesium (mg/L)	1	14.0	14.0	2	15.4	14.0 - 16.7		
Manganese (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0007	0.0007	2	0.0008	0.0007 - 0.0008		
Nickel (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.93	0.90 - 0.96	17	0.92	0.88 - 0.96		
Phosphorus (mg/L)	1	0.96	0.96	2	0.96	0.96		
Potassium (mg/L)	1	1.4	1.4	2	1.1	0.8 - 1.4		
Silicon (mg/L)	1	2.01	2.01	2	2.22	2.01 - 2.42		
Silver (mg/L)	1	<0.00002	<0.00002	2	<0.00002	<0.00002		
Sodium (mg/L)	1	12.9	12.9	2	10.1	7.3 - 12.9	(200.0)	
Strontium (mg/L)	1	0.450	0.450	2	0.457	0.450 - 0.463	7.000	
Sulphate Dissolved (mg/L)	1	75.4	75.4	2	73.3	71.1 - 75.4	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	174.0	174.0	2	188.0	174.0 - 202.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	2	<0.001	<0.001		

2.2.12 Londonderry Reservoir

April 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	2	0.9	0.8 - 1.0		
Bromoform (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Chloroform (µg/L)	1	9.2	9.2	2	13.3	9.2 - 17.3		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	1.2	1.2	2	1.4	1.2 - 1.5		
Total Volatile Organics (Non THM) (µg/L)	1	1.3	1.3	2	1.2	<1.0 - 1.3		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		

2.2.13 Millwoods Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	0.6	0.6	2	0.8	0.6 - 0.9	(15.0)	10.0
Conductivity (µS/cm)	1	398.0	398.0	2	399.5	398.0 - 401.0		
pH	1	8	8	2	8	8		7 - 8
Turbidity (NTU)	5	0.09	0.07 - 0.10	17	0.09	0.06 - 0.11	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.051	0.051	2	0.058	0.051 - 0.064	2.000	
Boron (mg/L)	1	0.009	0.009	2	0.009	0.009	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.12	0.12	2	0.13	0.12 - 0.14	1.00	
Chlorine total (mg/L)	5	2.03	2.01 - 2.05	17	2.04	1.98 - 2.10		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.62	0.62	2	0.64	0.62 - 0.66	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.11	0.11	2	0.10	0.09 - 0.11	10.00	
Nitrite (as N) dissolved (mg/L)	1	<0.01	<0.01	2	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	2	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	2	0.0006	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	7.9	7.9	2	12.3	7.9 - 16.7	100.0	50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	90.0 (20.0)	

2.2.13 Millwoods Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	107.0	107.0	2	118.5	107.0 - 130.0		
Aluminum (mg/L)	1	0.020	0.020	2	0.049	0.020 - 0.078	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.11	0.10 - 0.13	16	0.11	0.08 - 0.13		
Beryllium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	2	<0.03	<0.03		
Calcium (mg/L)	1	46.9	46.9	2	50.2	46.9 - 53.5		
Calcium Hardness (mg/L CaCO3)	1	117.0	117.0	2	125.5	117.0 - 134.0		
Chloride Dissolved (mg/L)	1	6.7	6.7	2	6.1	5.5 - 6.7	(250.0)	
Cobalt (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0029	0.0029	2	0.0033	0.0029 - 0.0036		
Magnesium (mg/L)	1	14.3	14.3	2	15.5	14.3 - 16.6		
Manganese (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0006	0.0006	2	0.0007	0.0006 - 0.0008		
Nickel (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.92	0.90 - 0.94	16	0.93	0.90 - 0.98		
Phosphorus (mg/L)	1	0.96	0.96	2	0.98	0.96 - 0.99		
Potassium (mg/L)	1	1.2	1.2	2	1.0	0.8 - 1.2		
Silicon (mg/L)	1	1.92	1.92	2	2.19	1.92 - 2.46		
Silver (mg/L)	1	<0.00002	<0.00002	2	<0.00002	<0.00002		
Sodium (mg/L)	1	11.8	11.8	2	9.7	7.6 - 11.8	(200.0)	
Strontium (mg/L)	1	0.463	0.463	2	0.466	0.463 - 0.468	7.000	
Sulphate Dissolved (mg/L)	1	75.9	75.9	2	73.9	71.9 - 75.9	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	176.0	176.0	2	189.0	176.0 - 202.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	2	<0.001	<0.001		

2.2.13 Millwoods Reservoir

April 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	2	0.8	0.7 - 0.8		
Bromoform (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Chloroform (µg/L)	1	7.1	7.1	2	11.4	7.1 - 15.7		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	1.1	1.1	2	1.3	1.1 - 1.5		
Total Volatile Organics (Non THM) (µg/L)	1	1.4	1.4	2	1.2	<1.0 - 1.4		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		

2.2.14 North Jasper Place Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				2	1.0	0.5 - 1.5	(15.0)	10.0
Conductivity (µS/cm)				2	396.0	378.0 - 414.0		
pH				2	8	8		7 - 8
Turbidity (NTU)	5	0.07	0.06 - 0.07	17	0.09	0.06 - 0.14	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				2	<0.0002	<0.0002	0.0100	
Barium (mg/L)				2	0.060	0.057 - 0.062	2.000	
Boron (mg/L)				2	0.016	0.008 - 0.023	5.000	
Bromate Dissolved (mg/L)				2	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)				2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				2	0.10	<0.1 - 0.10	1.00	
Chlorine total (mg/L)	5	1.80	1.75 - 1.83	17	1.82	1.74 - 2.18		1.00 - 2.40
Chlorite Dissolved (mg/L)				2	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)				2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				2	0.64	0.62 - 0.65	1.50	0.60 - 0.80
Lead (mg/L)				2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)				2	0.12	0.11 - 0.13	10.00	
Nitrite (as N) dissolved (mg/L)				2	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)				2	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)				2	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)				2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)				2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)				2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)				2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)				2	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				2	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)				2	<0.5	<0.5	10.0	
Toluene (µg/L)				2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)				2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)				2	11.5	11.0 - 11.9	100.0	50.0
Vinyl Chloride (µg/L)				2	<1.0	<1.0	2.0	
Xylenes total (µg/L)				2	<1.0	<1.0	90.0 (20.0)	

2.2.14 North Jasper Place Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				4	118.0	117.0 - 120.0		
Aluminum (mg/L)				4	0.092	0.035 - 0.168	2.900 (0.100)	
Ammonia as NH3 (mg/L)	10	0.14	0.12 - 0.16	34	0.14	0.10 - 0.20		
Beryllium (mg/L)				4	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				4	<0.05	<0.03 - <0.05		
Calcium (mg/L)				4	47.3	45.9 - 49.0		
Calcium Hardness (mg/L CaCO3)				4	118.0	115.0 - 122.0		
Chloride Dissolved (mg/L)				4	6.52	5.65 - 8.43	(250.00)	
Cobalt (mg/L)				4	<0.0002	<0.0002		
Copper (mg/L)				4	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				4	0.006	<0.005 - 0.007	(0.100)	
Lithium (mg/L)				4	0.0031	0.0029 - 0.0035		
Magnesium (mg/L)				4	15.0	14.7 - 15.2		
Manganese (mg/L)				4	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				4	0.0007	0.0006 - 0.0009		
Nickel (mg/L)				4	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	10	0.92	0.90 - 0.94	34	0.93	0.90 - 0.98		
Phosphorus (mg/L)				4	0.98	0.95 - 1.04		
Potassium (mg/L)				4	1.0	0.7 - 1.5		
Silicon (mg/L)				4	2.02	1.90 - 2.21		
Silver (mg/L)				4	<0.00002	<0.00002		
Sodium (mg/L)				4	9.0	6.6 - 14.1	(200.0)	
Strontium (mg/L)				4	0.469	0.461 - 0.480	7.000	
Sulphate Dissolved (mg/L)				4	66.8	61.5 - 77.8	(500.0)	
Thallium (mg/L)				4	<0.0002	<0.0002		
Tin (mg/L)				4	<0.0005	<0.0005		
Titanium (mg/L)				4	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				4	179.8	175.0 - 185.0		
Vanadium (mg/L)				4	<0.0005	<0.0005		
Zinc (mg/L)				4	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				4	<0.001	<0.001		

2.2.14 North Jasper Place Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				2	0.9	0.8 - 0.9		
Bromoform (µg/L)				2	<0.5	<0.5		
Chloroform (µg/L)				2	10.4	10.1 - 10.7		
Dibromochloromethane (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)				2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)				2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)				2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)				2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)				2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)				2	<0.5	<0.5	(15.0)	
Styrene (µg/L)				2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)				2	<0.5	<0.5		
Total Organic Carbon (mg/L)				2	1.1	1.0 - 1.2		
Total Volatile Organics (Non THM) (µg/L)				2	1.5	1.1 - 1.9		
Trichlorobenzene (1,2,4) (µg/L)				2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)				2	<0.5	<0.5		
Xylene (1,2) (µg/L)				2	<0.5	<0.5		
Xylene (1,4) (µg/L)				2	<0.5	<0.5		

2.2.15 Ormsby Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	0.7	0.7	2	0.9	0.7 - 1.0	(15.0)	10.0
Conductivity (µS/cm)	1	397.0	397.0	2	407.5	397.0 - 418.0		
pH	1	8	8	2	8	8		7 - 8
Turbidity (NTU)	5	0.07	0.06 - 0.09	17	0.09	0.06 - 0.17	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.053	0.053	2	0.059	0.053 - 0.064	2.000	
Boron (mg/L)	1	0.015	0.015	2	0.012	0.009 - 0.015	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.10	0.10	2	0.11	0.10 - 0.12	1.00	
Chlorine total (mg/L)	5	1.99	1.96 - 2.04	17	2.02	1.96 - 2.11		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.64	0.64	2	0.64	0.64	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.12	0.12	2	0.11	0.09 - 0.12	10.00	
Nitrite (as N) dissolved (mg/L)	1	<0.01	<0.01	2	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	2	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	2	0.0006	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	7.2	7.2	2	11.9	7.2 - 16.5	100.0	50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	90.0 (20.0)	

2.2.15 Ormsby Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	106.0	106.0	2	118.0	106.0 - 130.0		
Aluminum (mg/L)	1	0.020	0.020	2	0.051	0.020 - 0.082	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.11	0.11 - 0.12	17	0.12	0.08 - 0.14		
Beryllium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	2	<0.03	<0.03		
Calcium (mg/L)	1	46.4	46.4	2	49.5	46.4 - 52.6		
Calcium Hardness (mg/L CaCO3)	1	116.0	116.0	2	123.5	116.0 - 131.0		
Chloride Dissolved (mg/L)	1	7.0	7.0	2	6.3	5.7 - 7.0	(250.0)	
Cobalt (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0028	0.0028	2	0.0032	0.0028 - 0.0035		
Magnesium (mg/L)	1	14.0	14.0	2	15.3	14.0 - 16.6		
Manganese (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0007	0.0007	2	0.0007	0.0007		
Nickel (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.93	0.90 - 0.94	17	0.93	0.90 - 0.96		
Phosphorus (mg/L)	1	0.97	0.97	2	0.97	0.97		
Potassium (mg/L)	1	1.4	1.4	2	1.1	0.8 - 1.4		
Silicon (mg/L)	1	1.92	1.92	2	2.15	1.92 - 2.38		
Silver (mg/L)	1	<0.00002	<0.00002	2	<0.00002	<0.00002		
Sodium (mg/L)	1	13.3	13.3	2	10.5	7.7 - 13.3	(200.0)	
Strontium (mg/L)	1	0.449	0.449	2	0.461	0.449 - 0.473	7.000	
Sulphate Dissolved (mg/L)	1	78.5	78.5	2	75.1	71.7 - 78.5	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	174.0	174.0	2	187.0	174.0 - 200.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	2	<0.001	<0.001		

2.2.15 Ormsby Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	0.6	0.6	2	0.7	0.6 - 0.8		
Bromoform (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Chloroform (µg/L)	1	6.5	6.5	2	11.0	6.5 - 15.5		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	1.0	1.0	2	1.2	1.0 - 1.4		
Total Volatile Organics (Non THM) (µg/L)	1	1.2	1.2	2	1.1	<1.0 - 1.2		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		

2.2.16 Papaschase Reservoir 1

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	0.6	0.6	2	0.8	0.6 - 1.0	(15.0)	10.0
Conductivity (µS/cm)	1	412.0	412.0	2	408.5	405.0 - 412.0		
pH	1	8	8	2	8	8		7 - 8
Turbidity (NTU)	5	0.13	0.09 - 0.16	17	0.11	0.07 - 0.16	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.055	0.055	2	0.059	0.055 - 0.062	2.000	
Boron (mg/L)	1	0.016	0.016	2	0.013	0.009 - 0.016	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.28	0.28	2	0.25	0.22 - 0.28	1.00	
Chlorine total (mg/L)	5	1.76	1.74 - 1.80	17	1.83	1.74 - 1.97		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.68	0.68	2	0.69	0.68 - 0.69	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	1	0.14	0.14	2	0.12	0.09 - 0.14	10.00	
Nitrite (as N) dissolved (mg/L)	1	<0.01	<0.01	2	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0002	0.0002	2	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	2	0.0006	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	11.1	11.1	2	14.8	11.1 - 18.5	100.0	50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0	90.0 (20.0)	

2.2.16 Papaschase Reservoir 1

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	108.0	108.0	2	119.0	108.0 - 130.0		
Aluminum (mg/L)	1	0.018	0.018	2	0.050	0.018 - 0.082	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.17	0.15 - 0.19	16	0.15	0.12 - 0.19		
Beryllium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	2	<0.03	<0.03		
Calcium (mg/L)	1	46.9	46.9	2	49.9	46.9 - 52.8		
Calcium Hardness (mg/L CaCO3)	1	117.0	117.0	2	124.5	117.0 - 132.0		
Chloride Dissolved (mg/L)	1	9.9	9.9	2	7.5	5.1 - 9.9	(250.0)	
Cobalt (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	0.012	0.012	2	0.011	0.010 - 0.012	(0.100)	
Lithium (mg/L)	1	0.0036	0.0036	2	0.0036	0.0036		
Magnesium (mg/L)	1	14.1	14.1	2	15.2	14.1 - 16.3		
Manganese (mg/L)	1	<0.002	<0.002	2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0008	0.0008	2	0.0008	0.0008		
Nickel (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.89	0.88 - 0.90	16	0.91	0.88 - 0.94		
Phosphorus (mg/L)	1	0.94	0.94	2	0.95	0.94 - 0.95		
Potassium (mg/L)	1	1.7	1.7	2	1.3	0.8 - 1.7		
Silicon (mg/L)	1	2.05	2.05	2	2.22	2.05 - 2.38		
Silver (mg/L)	1	<0.00002	<0.00002	2	<0.00002	<0.00002		
Sodium (mg/L)	1	14.5	14.5	2	10.9	7.3 - 14.5	(200.0)	
Strontium (mg/L)	1	0.459	0.459	2	0.464	0.459 - 0.468	7.000	
Sulphate Dissolved (mg/L)	1	78.6	78.6	2	74.0	69.3 - 78.6	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	2	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	175.0	175.0	2	187.0	175.0 - 199.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	2	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	2	<0.001	<0.001		

2.2.16 Papaschase Reservoir 1

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	1.4	1.4	2	1.1	0.8 - 1.4		
Bromoform (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Chloroform (µg/L)	1	9.6	9.6	2	13.6	9.6 - 17.5		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Total Organic Carbon (mg/L)	1	1.3	1.3	2	1.4	1.3 - 1.4		
Total Volatile Organics (Non THM) (µg/L)	1	1.3	1.3	2	1.2	<1.0 - 1.3		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	2	<0.5	<0.5		

2.2.17 Papaschase Reservoir 2

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				2	0.7	<0.5 - 0.8	(15.0)	10.0
Conductivity (µS/cm)				2	397.5	371.0 - 424.0		
pH				2	8	8		7 - 8
Turbidity (NTU)	5	0.10	0.07 - 0.16	17	0.10	0.06 - 0.23	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				2	<0.0002	<0.0002	0.0100	
Barium (mg/L)				2	0.060	0.057 - 0.062	2.000	
Boron (mg/L)				2	0.016	0.008 - 0.023	5.000	
Bromate Dissolved (mg/L)				2	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)				2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				2	0.20	0.1 - 0.31	1.00	
Chlorine total (mg/L)	5	1.97	1.94 - 1.99	17	1.99	1.94 - 2.05		1.00 - 2.40
Chlorite Dissolved (mg/L)				2	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)				2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				2	0.72	0.71 - 0.72	1.50	0.60 - 0.80
Lead (mg/L)				2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)				2	0.13	0.10 - 0.15	10.00	
Nitrite (as N) dissolved (mg/L)				2	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)				2	0.0003	0.0003	0.0500	
Uranium (mg/L)				2	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)				2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)				2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)				2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)				2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)				2	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				2	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)				2	<0.5	<0.5	10.0	
Toluene (µg/L)				2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)				2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)				2	11.3	10.1 - 12.5	100.0	50.0
Vinyl Chloride (µg/L)				2	<1.0	<1.0	2.0	
Xylenes total (µg/L)				2	<1.0	<1.0	90.0 (20.0)	

2.2.17 Papaschase Reservoir 2

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				2	115.5	113.0 - 118.0		
Aluminum (mg/L)				2	0.057	0.031 - 0.083	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.14	0.13 - 0.16	17	0.13	0.10 - 0.16		
Beryllium (mg/L)				2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				2	<0.05	<0.03 - <0.05		
Calcium (mg/L)				2	47.1	46.3 - 47.8		
Calcium Hardness (mg/L CaCO3)				2	117.5	116.0 - 119.0		
Chloride Dissolved (mg/L)				2	7.93	4.96 - 10.90	(250.00)	
Cobalt (mg/L)				2	<0.0002	<0.0002		
Copper (mg/L)				2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				2	<0.005	<0.005	(0.100)	
Lithium (mg/L)				2	0.0034	0.0030 - 0.0037		
Magnesium (mg/L)				2	14.9	14.8 - 14.9		
Manganese (mg/L)				2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				2	0.0008	0.0006 - 0.0009		
Nickel (mg/L)				2	0.0005	<0.0005 - 0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.90	0.88 - 0.92	17	0.91	0.88 - 0.94		
Phosphorus (mg/L)				2	0.94	0.94		
Potassium (mg/L)				2	1.3	0.7 - 1.9		
Silicon (mg/L)				2	1.99	1.89 - 2.08		
Silver (mg/L)				2	<0.00002	<0.00002		
Sodium (mg/L)				2	11.6	6.3 - 16.9	(200.0)	
Strontium (mg/L)				2	0.470	0.457 - 0.483	7.000	
Sulphate Dissolved (mg/L)				2	71.1	60.1 - 82.1	(500.0)	
Thallium (mg/L)				2	<0.0002	<0.0002		
Tin (mg/L)				2	<0.0005	<0.0005		
Titanium (mg/L)				2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				2	178.5	177.0 - 180.0		
Vanadium (mg/L)				2	<0.0005	<0.0005		
Zinc (mg/L)				2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				2	<0.001	<0.001		

2.2.17 Papaschase Reservoir 2

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				2	1.0	0.9 - 1.0		
Bromoform (µg/L)				2	<0.5	<0.5		
Chloroform (µg/L)				2	10.1	9.0 - 11.2		
Dibromochloromethane (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)				2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)				2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)				2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)				2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)				2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)				2	<0.5	<0.5	(15.0)	
Styrene (µg/L)				2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)				2	<0.5	<0.5		
Total Organic Carbon (mg/L)				2	1.0	0.9 - 1.1		
Total Volatile Organics (Non THM) (µg/L)				2	1.5	<1.0 - 2.0		
Trichlorobenzene (1,2,4) (µg/L)				2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)				2	<0.5	<0.5		
Xylene (1,2) (µg/L)				2	<0.5	<0.5		
Xylene (1,4) (µg/L)				2	<0.5	<0.5		

2.2.18 Rosslyn Reservoir 1

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	1.1	1.1	1	1.1	1.1	(15.0)	10.0
Conductivity (µS/cm)	1	398.0	398.0	1	398.0	398.0		
pH	1	8	8	1	8	8		7 - 8
Turbidity (NTU)	5	0.09	0.07 - 0.12	15	0.09	0.07 - 0.12	(3.00)	1.00
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	0.052	0.052	1	0.052	0.052	2.000	
Boron (mg/L)	1	0.012	0.012	1	0.012	0.012	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	1	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.20	0.20	1	0.20	0.20	1.00	
Chlorine total (mg/L)	5	1.93	1.90 - 1.97	15	1.94	1.82 - 2.02		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	1	<0.005	<0.005	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	1	0.63	0.63	1	0.63	0.63	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	0.12	0.12	1	0.12	0.12	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	9.5	9.5	1	9.5	9.5	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)	

2.2.18 Rosslyn Reservoir 1

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	107.0	107.0	1	107.0	107.0		
Aluminum (mg/L)	1	0.017	0.017	1	0.017	0.017	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.14	0.12 - 0.16	15	0.14	0.10 - 0.16		
Beryllium (mg/L)	1	<0.0002	<0.0002	1	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	1	<0.03	<0.03		
Calcium (mg/L)	1	45.5	45.5	1	45.5	45.5		
Calcium Hardness (mg/L CaCO3)	1	114.0	114.0	1	114.0	114.0		
Chloride Dissolved (mg/L)	1	8.4	8.4	1	8.4	8.4	(250.0)	
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	(0.100)	
Lithium (mg/L)	1	0.0032	0.0032	1	0.0032	0.0032		
Magnesium (mg/L)	1	14.3	14.3	1	14.3	14.3		
Manganese (mg/L)	1	<0.002	<0.002	1	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0007	0.0007	1	0.0007	0.0007		
Nickel (mg/L)	1	<0.0005	<0.0005	1	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.92	0.92 - 0.94	15	0.91	0.88 - 0.94		
Phosphorus (mg/L)	1	0.94	0.94	1	0.94	0.94		
Potassium (mg/L)	1	1.4	1.4	1	1.4	1.4		
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	13.1	13.1	1	13.1	13.1	(200.0)	
Strontium (mg/L)	1	0.449	0.449	1	0.449	0.449	7.000	
Sulphate Dissolved (mg/L)	1	76.3	76.3	1	76.3	76.3	(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	172.0	172.0	1	172.0	172.0		
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		

2.2.18 Rosslyn Reservoir 1

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	1.1	1.1	1	1.1	1.1		
Bromoform (µg/L)	1	<0.5	<0.5	1	<0.5	<0.5		
Chloroform (µg/L)	1	8.4	8.4	1	8.4	8.4		
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	1.2	1.2	1	1.2	1.2		
Total Volatile Organics (Non THM) (µg/L)	1	1.2	1.2	1	1.2	1.2		
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		

2.2.19 Rosslyn Reservoir 2

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				3	0.8	0.7 - 0.9	(15.0)	10.0
Conductivity (µS/cm)				3	403.3	385.0 - 423.0		
pH				3	8	8		7 - 8
Turbidity (NTU)	5	0.08	0.08	17	0.09	0.07 - 0.11	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				3	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				3	<0.0002	<0.0002	0.0100	
Barium (mg/L)				3	0.060	0.058 - 0.062	2.000	
Boron (mg/L)				3	0.012	0.008 - 0.020	5.000	
Bromate Dissolved (mg/L)				3	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)				3	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				3	0.17	0.1 - 0.26	1.00	
Chlorine total (mg/L)	5	1.85	1.83 - 1.87	17	1.84	1.68 - 1.94		1.00 - 2.40
Chlorite Dissolved (mg/L)				3	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)				3	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				3	0.66	0.64 - 0.67	1.50	0.60 - 0.80
Lead (mg/L)				3	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				3	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)				3	0.11	0.09 - 0.13	10.00	
Nitrite (as N) dissolved (mg/L)				3	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)				3	0.0003	0.0003	0.0500	
Uranium (mg/L)				3	0.0005	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)				3	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)				3	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)				3	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)				3	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)				3	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				3	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)				3	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)				3	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				3	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)				3	<0.5	<0.5	10.0	
Toluene (µg/L)				3	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)				3	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)				3	11.5	10.4 - 13.3	100.0	50.0
Vinyl Chloride (µg/L)				3	<1.0	<1.0	2.0	
Xylenes total (µg/L)				3	<1.0	<1.0	90.0 (20.0)	

2.2.19 Rosslyn Reservoir 2

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				3	121.3	115.0 - 128.0		
Aluminum (mg/L)				3	0.064	0.034 - 0.085	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.14	0.13 - 0.15	17	0.14	0.11 - 0.18		
Beryllium (mg/L)				3	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				3	<0.05	<0.03 - <0.05		
Calcium (mg/L)				3	49.4	47.5 - 51.7		
Calcium Hardness (mg/L CaCO3)				3	123.3	118.0 - 129.0		
Chloride Dissolved (mg/L)				3	7.28	5.40 - 11.00	(250.00)	
Cobalt (mg/L)				3	<0.0002	<0.0002		
Copper (mg/L)				3	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				3	<0.005	<0.005	(0.100)	
Lithium (mg/L)				3	0.0035	0.0031 - 0.0038		
Magnesium (mg/L)				3	15.5	14.9 - 16.3		
Manganese (mg/L)				3	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				3	0.0007	0.0006 - 0.0008		
Nickel (mg/L)				3	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.90	0.78 - 0.94	17	0.91	0.78 - 0.94		
Phosphorus (mg/L)				3	0.96	0.95 - 0.96		
Potassium (mg/L)				3	1.0	0.7 - 1.6		
Silicon (mg/L)				3	2.11	1.91 - 2.26		
Silver (mg/L)				3	<0.00002	<0.00002		
Sodium (mg/L)				3	9.9	6.7 - 15.5	(200.0)	
Strontium (mg/L)				3	0.472	0.464 - 0.478	7.000	
Sulphate Dissolved (mg/L)				3	70.2	61.3 - 80.0	(500.0)	
Thallium (mg/L)				3	<0.0002	<0.0002		
Tin (mg/L)				3	<0.0005	<0.0005		
Titanium (mg/L)				3	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				3	187.3	180.0 - 196.0		
Vanadium (mg/L)				3	<0.0005	<0.0005		
Zinc (mg/L)				3	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				3	<0.001	<0.001		

2.2.19 Rosslyn Reservoir 2

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				3	0.9	<0.5 - 1.2		
Bromoform (µg/L)				3	<0.5	<0.5		
Chloroform (µg/L)				3	10.5	9.5 - 12.1		
Dibromochloromethane (µg/L)				3	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)				3	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)				3	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)				3	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)				3	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)				3	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)				3	<0.5	<0.5	(15.0)	
Styrene (µg/L)				3	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)				3	<0.5	<0.5		
Total Organic Carbon (mg/L)				3	1.2	1.0 - 1.3		
Total Volatile Organics (Non THM) (µg/L)				3	1.5	<1.0 - 2.4		
Trichlorobenzene (1,2,4) (µg/L)				3	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)				3	<0.5	<0.5		
Xylene (1,2) (µg/L)				3	<0.5	<0.5		
Xylene (1,4) (µg/L)				3	<0.5	<0.5		

2.2.20 Thorncliff Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				2	0.7	0.6 - 0.8	(15.0)	10.0
Conductivity (µS/cm)				2	396.0	377.0 - 415.0		
pH				2	8	8		7 - 8
Turbidity (NTU)	5	0.07	0.07 - 0.08	17	0.09	0.07 - 0.17	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				2	<0.0002	<0.0002	0.0100	
Barium (mg/L)				2	0.060	0.057 - 0.063	2.000	
Boron (mg/L)				2	0.016	0.008 - 0.023	5.000	
Bromate Dissolved (mg/L)				2	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)				2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				2	0.10	<0.1 - 0.10	1.00	
Chlorine total (mg/L)	5	1.87	1.82 - 1.90	17	1.87	1.80 - 1.94		1.00 - 2.40
Chlorite Dissolved (mg/L)				2	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)				2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				2	0.64	0.63 - 0.64	1.50	0.60 - 0.80
Lead (mg/L)				2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)				2	0.12	0.11 - 0.13	10.00	
Nitrite (as N) dissolved (mg/L)				2	<0.01	<0.01	1.00	
Selenium (mg/L)				2	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)				2	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)				2	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)				2	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)				2	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				2	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)				2	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)				2	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				2	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)				2	<0.5	<0.5	10.0	
Toluene (µg/L)				2	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)				2	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)				2	10.9	9.6 - 12.2	100.0	50.0
Vinyl Chloride (µg/L)				2	<1.0	<1.0	2.0	
Xylenes total (µg/L)				2	<1.0	<1.0	90.0 (20.0)	

2.2.20 Thorncliff Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				2	117.5	117.0 - 118.0		
Aluminum (mg/L)				2	0.067	0.039 - 0.095	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.12	0.11 - 0.12	17	0.13	0.09 - 0.17		
Beryllium (mg/L)				2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				2	<0.05	<0.03 - <0.05		
Calcium (mg/L)				2	47.7	46.5 - 48.9		
Calcium Hardness (mg/L CaCO3)				2	119.0	116.0 - 122.0		
Chloride Dissolved (mg/L)				2	6.93	5.65 - 8.21	(250.00)	
Cobalt (mg/L)				2	<0.0002	<0.0002		
Copper (mg/L)				2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				2	<0.005	<0.005	(0.100)	
Lithium (mg/L)				2	0.0032	0.0029 - 0.0035		
Magnesium (mg/L)				2	15.0	14.8 - 15.2		
Manganese (mg/L)				2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				2	0.0008	0.0006 - 0.0009		
Nickel (mg/L)				2	<0.0005	<0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.93	0.90 - 0.94	17	0.93	0.88 - 0.96		
Phosphorus (mg/L)				2	0.96	0.94 - 0.97		
Potassium (mg/L)				2	1.2	0.7 - 1.6		
Silicon (mg/L)				2	2.01	1.87 - 2.15		
Silver (mg/L)				2	<0.00002	<0.00002		
Sodium (mg/L)				2	10.3	6.6 - 14.0	(200.0)	
Strontium (mg/L)				2	0.468	0.461 - 0.475	7.000	
Sulphate Dissolved (mg/L)				2	69.8	61.6 - 78.0	(500.0)	
Thallium (mg/L)				2	<0.0002	<0.0002		
Tin (mg/L)				2	<0.0005	<0.0005		
Titanium (mg/L)				2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				2	181.0	177.0 - 185.0		
Vanadium (mg/L)				2	<0.0005	<0.0005		
Zinc (mg/L)				2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				2	<0.001	<0.001		

2.2.20 Thorncliff Reservoir

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				2	0.8	0.7 - 0.9		
Bromoform (µg/L)				2	<0.5	<0.5		
Chloroform (µg/L)				2	9.9	8.7 - 11.1		
Dibromochloromethane (µg/L)				2	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)				2	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)				2	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)				2	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)				2	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)				2	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)				2	<0.5	<0.5	(15.0)	
Styrene (µg/L)				2	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)				2	<0.5	<0.5		
Total Organic Carbon (mg/L)				2	1.1	1.0 - 1.1		
Total Volatile Organics (Non THM) (µg/L)				2	1.6	1.1 - 2.0		
Trichlorobenzene (1,2,4) (µg/L)				2	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)				2	<0.5	<0.5		
Xylene (1,2) (µg/L)				2	<0.5	<0.5		
Xylene (1,4) (µg/L)				2	<0.5	<0.5		

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Microbiologicals						
Coliforms total (MPN/100 mL)	35	379.4	46.4 - 1024.0	141	512.8	21.3 - 7308.0
Cryptosporidium (oocysts/100L)	2	15.00	13.0 - 17.00	8	17.0	<1 - 32.3
E. coli (MPN/100 mL)	35	12.4	1.0 - 82.0	141	43.6	1.0 - 3328.0
Giardia (cysts/100L)	2	140.00	130.00 - 150.00	8	44.8	<1.64 - 150.0
Physical						
Colour (TCU)	60	12.7	5.5 - 36.8	240	7.9	2.4 - 36.8
Conductivity (µS/cm)	10	340.0	315.0 - 361.0	34	365.0	315.0 - 412.0
pH	2	8	8	8	8	8
Total Dissolved Solids (mg/L)	2	198.50	196.00 - 201.00	8	188.63	178 - 246.00
Total Suspended Solids (mg/L)	2	6.2	2.6 - 9.8	8	3.1	<1.0 - 9.8
Turbidity (NTU)	60	27.84	3.44 - 124.00	240	9.01	1.04 - 124.00
Primary Inorganics						
Antimony (mg/L)	2	<0.0005	<0.0005	8	<0.0005	<0.0005
Antimony dissolved (mg/L)	2	<0.0005	<0.0005	8	<0.0005	<0.0005
Arsenic (mg/L)	2	0.0004	0.0003 - 0.0004	8	0.0003	<0.0002 - 0.0004
Arsenic dissolved (mg/L)	2	0.0002	0.0002	8	0.0002	<0.0002 - 0.0002
Barium (mg/L)	2	0.062	0.061 - 0.062	8	0.063	0.056 - 0.071
Barium dissolved (mg/L)	2	0.060	0.059 - 0.060	8	0.062	0.055 - 0.071
Boron (mg/L)	2	0.011	0.010 - 0.012	8	0.010	0.008 - 0.012
Boron dissolved (mg/L)	2	0.011	0.010 - 0.012	8	0.010	0.009 - 0.012
Bromate Dissolved (mg/L)	10	<0.005	<0.005	34	0.005	<0.003 - 0.005
Cadmium (mg/L)	2	<0.00002	<0.00002	8	<0.00002	<0.00002
Cadmium Dissolved (mg/L)	2	<0.00002	<0.00002	8	<0.00002	<0.00002
Chlorate Dissolved (mg/L)	10	<0.01	<0.01	34	<0.1	<0.01 - <0.1
Chlorine total (mg/L)	2	<0.03	<0.03	8	<0.03	<0.03
Chlorite Dissolved (mg/L)	10	<0.005	<0.005	34	<0.2	<0.005 - <0.2
Chromium (mg/L)	2	0.0004	0.0004	8	0.0003	<0.0002 - 0.0005
Chromium dissolved (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Cyanide (mg/L)	2	<0.002	<0.002	4	<0.002	<0.002
Fluoride (mg/L)	10	0.11	0.10 - 0.11	34	0.11	0.09 - 0.14
Lead (mg/L)	2	0.0002	<0.0002	8	0.0002	<0.0002 - 0.0002
Lead dissolved (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Mercury (µg/L)	2	<0.0050	<0.0050	4	<0.0050	<0.0050
Mercury (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Mercury dissolved (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Nitrate (as N) dissolved (mg/L)	10	0.09	0.02 - 0.19	32	0.10	0.02 - 0.19
Nitrite (as N) dissolved (mg/L)	10	<0.01	<0.01	32	0.01	<0.01
Selenium (mg/L)	2	0.0002	0.0002	8	0.0002	0.0002 - 0.0003
Selenium dissolved (mg/L)	2	0.0002	0.0002	8	0.0003	0.0002 - 0.0003
Uranium (mg/L)	2	0.0006	0.0005 - 0.0006	8	0.0006	0.0005 - 0.0006
Uranium dissolved (mg/L)	2	0.0006	0.0005 - 0.0006	8	0.0006	0.0005 - 0.0006

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Primary Organics						
2,4-D (µg/L)	2	<0.050	<0.050	4	<0.250	<0.050 - <0.250
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)	2	<0.050	<0.050	4	<0.250	<0.050 - <0.250
Atrazine + metabolites (µg/L)	2	<0.10	<0.10	4	<0.10	<0.10
Benzene (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Benzo(a)pyrene (µg/L)	2	<0.005	<0.005	4	<0.005	<0.005
Bromoxynil (µg/L)	2	<0.050	<0.050	4	<0.250	<0.050 - <0.250
Carbon Tetrachloride (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Chlorobenzene (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Chlorpyrifos (µg/L)	2	<0.10	<0.10	4	<0.10	<0.10
Cyanazine (µg/L)	2	<0.100	<0.100	4	<0.100	<0.100
Diazinon (µg/L)	2	<0.0250	<0.0250	4	<0.0250	<0.0250
Dicamba (µg/L)	2	<0.10	<0.10	4	<0.50	<0.10 - <0.50
Dichlorobenzene (1,2) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Dichlorobenzene (1,4) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Dichloroethane (1,2) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Dichloroethylene (1,1) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Dichlorophenol (2,4) (µg/L)	2	<0.20	<0.20	4	<0.20	<0.20
Diclofop-methyl (µg/L)	2	<0.100	<0.100	4	<0.100	<0.100
Dimethoate (µg/L)	2	<0.050	<0.050	4	<0.050	<0.050
Diquat (µg/L)	2	<1.0	<1.0	4	<1.0	<1.0
Diuron (µg/L)	2	<0.050	<0.050	4	<0.050	<0.050
Ethylbenzene (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Glyphosate (µg/L)	2	<1.00	<1.00	4	<1.00	<0.20 - <1.00
Malathion (µg/L)	2	<0.0250	<0.0250	4	<0.0250	<0.0250
Methylene Chloride (Dichloromethane) (µg/L)	60	<0.5	<0.5	240	<1.00	<0.5 - <1.00
Metolachlor (µg/L)	2	<0.0250	<0.0250	4	<0.0250	<0.0250
Metribuzin (µg/L)	2	<0.100	<0.100	4	<0.100	<0.100
Microcystin total (µg/L)	2	<0.15	<0.15	4	<0.15	<0.15
Nitrilotriacetic acid (NTA) (mg/L)	2	<0.4	<0.4	4	<0.4	<0.4
Omethoate (as dimethoate) (µg/L)	2	<0.16	<0.16	4	<0.16	<0.16
Pentachlorophenol (µg/L)	2	<0.50	<0.50	4	<0.50	<0.50
Phorate (µg/L)	2	<0.250	<0.250	4	<0.250	<0.250
Picloram (µg/L)	2	<0.10	<0.10	4	<0.50	<0.10 - <0.50
Simazine (µg/L)	2	<0.100	<0.100	4	<0.100	<0.100
Terbufos (µg/L)	2	<0.50	<0.50	4	<0.50	<0.50
Tetrachloroethylene (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Tetrachlorophenol (2,3,4,6) (µg/L)	2	<0.50	<0.50	4	<0.50	<0.50
Toluene (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Trichloroethylene (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Trichlorophenol (2,4,6) (µg/L)	2	<0.20	<0.20	4	<0.20	<0.20
Trifluralin (µg/L)	2	<0.10	<0.10	4	<0.10	<0.10
Trihalomethanes (µg/L)	60	<1.0	<1.0	240	<1.0	<1.0
Vinyl Chloride (µg/L)	60	<1.0	<1.0	240	<1.0	<0.50 - <1.0
Xylenes total (µg/L)	60	<1.0	<1.0	240	<1.0	<0.50 - <1.0

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Secondary Organics						
Bromodichloromethane (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Bromoform (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Chloroform (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Dibromochloromethane (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Dichlorobenzene (1,3) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Dichloroethylene cis (1,2) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Dichloroethylene trans (1,2) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Dichloropropane (1,2) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Methyl Isobutyl Ketone (MIBK) (µg/L)	60	<1.0	<1.0	240	<20	<1.0 - <20
Methyl t-Butyl Ether (MTBE) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Styrene (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Tetrachloroethane (1,1,2,2) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Total Organic Carbon (mg/L)	10	2.9	2.1 - 3.4	34	1.9	0.9 - 3.4
Total Volatile Organics (Non THM) (µg/L)	60	1.0	<1.0 - 1.3	236	1.2	<1.0 - 2.9
Trichlorobenzene (1,2,4) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Trichloroethane (1,1,1) (µg/L)	60	<0.5	<0.5	240	<0.50	<0.5 - <0.50
Xylene (1,2) (µg/L)	60	<0.5	<0.5	240	<0.5	<0.30 - <0.5
Xylene (1,4) (µg/L)	60	<0.5	<0.5	240	<0.5	<0.40 - <0.5

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Secondary Inorganics						
Alkalinity phenolphthalein (mg CaCO3/L)	2	<3	<3	8	<3	<3
Alkalinity total (mg CaCO3/L)	10	117.8	109.0 - 132.0	34	124.1	109.0 - 141.0
Aluminum (mg/L)	2	0.317	0.302 - 0.332	8	0.199	0.078 - 0.340
Ammonia as NH3 (mg/L)	46	0.05	<0.05 - 0.08	166	0.05	<0.01 - 0.12
Beryllium (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Bromide Dissolved (mg/L)	10	0.03	<0.03	34	<0.05	<0.03 - <0.05
Calcium (mg/L)	2	45.4	45.1 - 45.7	8	48.8	45.1 - 54.5
Calcium Hardness (mg/L CaCO3)	10	108.2	98.0 - 120.0	34	117.3	98.0 - 136.0
Chloride Dissolved (mg/L)	10	2.5	0.9 - 5.7	34	2.13	0.50 - 6.74
Chlorine free (mg/L)	2	<0.07	<0.07	8	<0.07	<0.07
Cobalt (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Copper (mg/L)	2	0.004	<0.002 - 0.005	8	0.004	<0.002 - 0.006
Iron (mg/L)	2	0.285	0.234 - 0.336	8	0.180	0.063 - 0.349
Lanthanum (mg/L)	2	<0.001	<0.001	8	<0.001	<0.001
Lithium (mg/L)	2	0.0036	0.0034 - 0.0037	8	0.0036	0.0030 - 0.0041
Magnesium (mg/L)	2	13.7	13.5 - 13.9	8	15.1	13.5 - 17.3
Manganese (mg/L)	2	0.008	0.005 - 0.010	8	0.006	<0.002 - 0.014
Molybdenum (mg/L)	2	0.0009	0.0007 - 0.0010	8	0.0007	0.0005 - 0.0010
Nickel (mg/L)	2	0.0009	0.0009	8	0.0007	<0.0005 - 0.0010
Nitrogen Total Kjeldahl (TKN) (mg/L N)	33	0.2	<0.1 - 0.6	99	0.2	<0.1 - 0.6
Nitrogen Total Kjeldahl (TKN) (mg/L)				4	0.11	<0.07 - 0.15
Phosphate Ortho (as P) (mg/L as P)	2	<0.02	<0.02	8	<0.02	<0.02
Phosphorus (mg/L)	2	0.04	0.03 - 0.04	8	0.03	<0.02 - 0.04
Potassium (mg/L)	2	1.8	1.7 - 1.9	8	1.1	0.6 - 1.9
Silicon (mg/L)	2	2.52	2.47 - 2.57	8	2.33	1.88 - 2.66
Silver (mg/L)	2	<0.00002	<0.00002	8	<0.00002	<0.00002
Sodium (mg/L)	2	5.6	4.2 - 6.9	8	5.2	2.8 - 8.7
Strontium (mg/L)	2	0.449	0.442 - 0.456	8	0.468	0.442 - 0.485
Sulphate Dissolved (mg/L)	10	52.9	46.2 - 57.2	34	59.5	46.2 - 70.3
Sulphide (mg/L)	2	<0.0015	<0.0015	4	<0.0015	<0.0015
Thallium (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Tin (mg/L)	2	<0.0005	<0.0005	8	<0.0005	<0.0005
Titanium (mg/L)	2	0.0098	0.0095 - 0.0100	8	0.0052	0.0013 - 0.0100
Total Hardness (mg/L CaCO3)	10	161.5	146.0 - 177.0	34	176.6	146.0 - 202.0
Vanadium (mg/L)	2	0.0008	0.0007 - 0.0009	8	0.0006	<0.0005 - 0.0009
Zinc (mg/L)	2	<0.005	<0.005	8	0.005	<0.005 - 0.006
Zirconium (mg/L)	2	<0.001	<0.001	8	<0.001	<0.001

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

April 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Secondary Inorganics						
Aluminum dissolved (mg/L)	2	0.025	<0.005 - 0.044	8	0.013	<0.005 - 0.044
Beryllium dissolved (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Calcium dissolved (mg/L)	2	46.7	45.8 - 47.5	8	49.4	45.7 - 55.6
Cobalt dissolved (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Copper dissolved (mg/L)	2	0.003	<0.002 - 0.004	8	0.003	<0.002 - 0.005
Iron dissolved (mg/L)	2	0.022	0.021 - 0.022	8	0.010	<0.005 - 0.022
Lanthanum Dissolved (mg/L)	2	<0.001	<0.001	8	<0.001	<0.001
Lithium dissolved (mg/L)	2	0.0035	0.0033 - 0.0037	8	0.0035	0.0028 - 0.0039
Magnesium dissolved (mg/L)	2	13.7	13.4 - 14.0	8	15.1	13.4 - 17.2
Manganese dissolved (mg/L)	2	<0.002	<0.002	8	0.002	<0.002 - 0.005
Molybdenum dissolved (mg/L)	2	0.0009	0.0008 - 0.0010	8	0.0007	0.0005 - 0.0010
Nickel dissolved (mg/L)	2	0.0007	0.0006 - 0.0007	8	0.0005	<0.0005 - 0.0007
Phosphorus dissolved (mg/L)	2	<0.02	<0.02	8	<0.02	<0.02
Potassium dissolved (mg/L)	2	1.8	1.7 - 1.9	8	1.1	0.6 - 1.9
Silicon dissolved (mg/L)	2	2.03	2.01 - 2.05	8	2.00	1.65 - 2.33
Silver dissolved (mg/L)	2	<0.00002	<0.00002	8	<0.00002	<0.00002
Sodium dissolved (mg/L)	2	5.7	4.3 - 7.0	8	5.2	2.8 - 8.7
Strontium dissolved (mg/L)	2	0.457	0.443 - 0.470	8	0.469	0.443 - 0.484
Thallium dissolved (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Tin dissolved (mg/L)	2	<0.0005	<0.0005	8	<0.0005	<0.0005
Titanium dissolved (mg/L)	2	<0.0005	<0.0005	8	<0.0005	<0.0005
Vanadium Dissolved (mg/L)	2	<0.0005	<0.0005	8	<0.0005	<0.0005
Zinc dissolved (mg/L)	2	<0.005	<0.005	8	0.005	<0.005 - 0.005
Zirconium dissolved (mg/L)	2	<0.001	<0.001	8	<0.001	<0.001