CERTIFICATE OF ANALYSIS

Work Order	:	**FC2503305**		
Client	:	**Regional Municipality of Wood Buffalo**	Laboratory	: ALS Environmental - Fort McMurray
Contact	:	Water Treatment Plant	Account Manager	: Megha Walia
Address	:	1 Silin Forest Road Fort Mcmurray Alberta Canada T9H 5A1	Address	: #4, 340 Macalpine Crescent Fort McMurray AB Canada T9H 4A8
Telephone	:	780-762-5863	E-mail	: Megha.Walia@alsglobal.com
Project	:	Fort Chipewyan Imperial Release	Telephone	: +1 780 791 1524
PO	:	4500060925	Date Samples Received	: 18-Nov-2025 15:00
C-O-C number	:	----	Date Analysis Commenced	: 19-Nov-2025
Sampler	:	EA	Issue Date	: 21-Nov-2025 07:24
Site	:	----		
Quote number	:	Water Treatment Plant		
No. of samples received	:	3		
No. of samples analysed	:	3		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Alastair McGibbon	Laboratory Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Organics, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Dan Nguyen	Team Leader - Inorganics	Metals, Edmonton, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
John Tang	Lab Analyst	Inorganics, Waterloo, Ontario
Kate Dimitrova	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Ping Yeung	Team Leader - Inorganics	Metals, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Remy Gatabazi	Lab Analyst	Organics, Edmonton, Alberta
Yan Zhang	Team Leader - Organics	Organics, Edmonton, Alberta

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	no units
%	percent
mg/L	milligrams per litre
pH units	pH units
psu	practical salinity units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

<: less than.
>: greater than.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

CORRECTION MADE TO PO # AS PER COC

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Treated Water - Entering Distribution ----	Raw Water - WTP ----	Raw Water - Intake ----	----	----
					Client sampling date / time	17-Nov-2025 08:10	17-Nov-2025 08:00	17-Nov-2025 08:30	----	----
						FC2503305-001	FC2503305-002	FC2503305-003	----	----
						Result	Result	Result	----	----
Physical Tests										
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/EO	1.2	mg/L		57.3	42.3	32.6	----	----
Alkalinity, carbonate (as CO3)	3812-32-6	E290/EO	1.0	mg/L		<0.6	<0.6	<0.6	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	1.0	mg/L		<0.3	<0.3	<0.3	----	----
Alkalinity, total (as CaCO3)	----	E290/EO	1.0	mg/L		47.0	34.7	26.7	----	----
Conductivity	----	E100/EO	1.0	µS/cm		148	90.8	70.8	----	----
Hardness (as CaCO3), dissolved	----	EC100/EO	0.50	mg/L		38.3	35.5	28.5	----	----
pH	----	E108/EO	0.10	pH units		8.07	7.62	7.83	----	----
Salinity	----	EC100S/VA	1.0	psu		<1.0	<1.0	<1.0	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L		78.9	50.9	41.0	----	----
Anions and Nutrients										
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L		13.0	3.59	2.73	----	----
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L		0.069	0.107	0.106	----	----
Nitrate (as N)	14797-55-8	E235.NO3/EO	0.020	mg/L		<0.020	<0.020	0.026	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/EO	0.0032	mg/L		<0.022	<0.022	0.0260	----	----
Nitrite (as N)	14797-65-0	E235.NO2/EO	0.010	mg/L		<0.010	<0.010	<0.010	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/EO	0.30	mg/L		4.55	4.42	3.04	----	----
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L		<0.0015	<0.0015	<0.0015	----	----
Sulfide, total (as H2S)	7783-06-4	E395/CG	0.0016	mg/L		<0.0016	<0.0016	<0.0016	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Treated Water - Entering Distribution ----	Raw Water - WTP ----	Raw Water - Intake ----	----	----
Client sampling date / time					17-Nov-2025 08:10	17-Nov-2025 08:00	17-Nov-2025 08:30	----	----
					FC2503305-001	**FC2503305-002**	**FC2503305-003**	**----**	**----**
					Result	Result	Result	----	----
Metals									
Sodium adsorption ratio [SAR]	----	EC102A/EO	0.10	-	0.99	0.26	0.24	----	----
Ion Balance									
Ion balance (cations/anions)	----	EC101/EO	0.010	%	101	100	106	----	----
Total Metals									
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.0287	0.377	0.741	----	----
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00022	0.00071	0.00087	----	----
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0209	0.0274	0.0257	----	----
Beryllium, total	7440-41-7	E420/EO	0.000020	mg/L	<0.000020	0.000028	0.000050	----	----
Bismuth, total	7440-69-9	E420/EO	0.000050	mg/L	<0.000050	<0.000050	<0.000050	----	----
Boron, total	7440-42-8	E420/EO	0.010	mg/L	0.013	0.014	0.014	----	----
Cadmium, total	7440-43-9	E420/EO	0.0000050	mg/L	<0.0000050	0.0000158	0.0000211	----	----
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	10.5	10.0	8.01	----	----
Cesium, total	7440-46-2	E420/EO	0.000010	mg/L	<0.000010	0.000118	0.000181	----	----
Chromium, total	7440-47-3	E420/EO	0.00050	mg/L	<0.00050	0.00064	0.00125	----	----
Cobalt, total	7440-48-4	E420/EO	0.00010	mg/L	<0.00010	0.00027	0.00050	----	----
Copper, total	7440-50-8	E420/EO	0.00050	mg/L	0.00078	0.00226	0.00168	----	----
Iron, total	7439-89-6	E420/EO	0.010	mg/L	<0.010	0.814	1.39	----	----
Lead, total	7439-92-1	E420/EO	0.000050	mg/L	<0.000050	0.000524	0.000707	----	----
Lithium, total	7439-93-2	E420/EO	0.0010	mg/L	0.0031	0.0036	0.0037	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	Treated Water - Entering Distribution ----	Raw Water - WTP ----	Raw Water - Intake ----	----	----
					Client sampling date / time	17-Nov-2025 08:10	17-Nov-2025 08:00	17-Nov-2025 08:30	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		FC2503305-001	FC2503305-002	FC2503305-003	----	----
						Result	Result	Result	----	----
Total Metals										
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L		3.03	3.14	2.71	----	----
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L		0.00116	0.0253	0.0367	----	----
Molybdenum, total	7439-98-7	E420/EO	0.000050	mg/L		0.000253	0.000233	0.000239	----	----
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L		0.00058	0.00104	0.00191	----	----
Phosphorus, total	7723-14-0	E420/EO	0.050	mg/L		<0.050	<0.050	<0.050	----	----
Potassium, total	7440-09-7	E420/EO	0.050	mg/L		1.03	1.13	1.17	----	----
Rubidium, total	7440-17-7	E420/EO	0.00020	mg/L		0.00098	0.00213	0.00297	----	----
Selenium, total	7782-49-2	E420/EO	0.000050	mg/L		<0.000050	<0.000050	0.000075	----	----
Silicon, total	7440-21-3	E420/EO	0.10	mg/L		1.72	2.65	3.41	----	----
Silver, total	7440-22-4	E420/EO	0.000010	mg/L		<0.000010	<0.000010	0.000011	----	----
Sodium, total	7440-23-5	E420/EO	0.050	mg/L		14.7	3.72	2.81	----	----
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L		0.0681	0.0718	0.0591	----	----
Sulfur, total	7704-34-9	E420/EO	0.50	mg/L		1.58	1.73	0.86	----	----
Tellurium, total	13494-80-9	E420/EO	0.00020	mg/L		<0.00020	<0.00020	<0.00020	----	----
Thallium, total	7440-28-0	E420/EO	0.000010	mg/L		<0.000010	0.000013	0.000022	----	----
Thorium, total	7440-29-1	E420/EO	0.00010	mg/L		<0.00010	<0.00010	0.00014	----	----
Tin, total	7440-31-5	E420/EO	0.00010	mg/L		0.00016	0.00012	0.00013	----	----
Titanium, total	7440-32-6	E420/EO	0.00030	mg/L		<0.00030	0.00922	0.0192	----	----
Tungsten, total	7440-33-7	E420/EO	0.00010	mg/L		<0.00010	<0.00010	<0.00010	----	----
Uranium, total	7440-61-1	E420/EO	0.000010	mg/L		<0.000010	0.000096	0.000144	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	Treated Water - Entering Distribution ----	Raw Water - WTP ----	Raw Water - Intake ----	----	----
					Client sampling date / time	17-Nov-2025 08:10	17-Nov-2025 08:00	17-Nov-2025 08:30	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		FC2503305-001	FC2503305-002	FC2503305-003	----	----
						Result	Result	Result	----	----
Total Metals										
Vanadium, total	7440-62-2	E420/EO	0.00050	mg/L		<0.00050	0.00158	0.00260	----	----
Zinc, total	7440-66-6	E420/EO	0.0030	mg/L		0.0101	0.0034	0.0068	----	----
Zirconium, total	7440-67-7	E420/EO	0.00020	mg/L		<0.00020	<0.00020	0.00027	----	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L		0.0251	0.0047	0.0073	----	----
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L		<0.00010	0.00011	<0.00010	----	----
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L		0.00018	0.00022	0.00017	----	----
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L		0.0203	0.0201	0.0145	----	----
Beryllium, dissolved	7440-41-7	E421/EO	0.000020	mg/L		<0.000020	<0.000020	<0.000020	----	----
Bismuth, dissolved	7440-69-9	E421/EO	0.000050	mg/L		<0.000050	<0.000050	<0.000050	----	----
Boron, dissolved	7440-42-8	E421/EO	0.010	mg/L		0.013	0.013	0.012	----	----
Cadmium, dissolved	7440-43-9	E421/EO	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	----	----
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L		10.4	9.40	7.49	----	----
Cesium, dissolved	7440-46-2	E421/EO	0.000010	mg/L		<0.000010	<0.000010	<0.000010	----	----
Chromium, dissolved	7440-47-3	E421/EO	0.00050	mg/L		<0.00050	<0.00050	<0.00050	----	----
Cobalt, dissolved	7440-48-4	E421/EO	0.00010	mg/L		<0.00010	<0.00010	<0.00010	----	----
Copper, dissolved	7440-50-8	E421/EO	0.00020	mg/L		0.00074	0.00112	0.00076	----	----
Iron, dissolved	7439-89-6	E421/EO	0.010	mg/L		<0.010	0.011	<0.010	----	----
Lead, dissolved	7439-92-1	E421/EO	0.000050	mg/L		<0.000050	<0.000050	<0.000050	----	----
Lithium, dissolved	7439-93-2	E421/EO	0.0010	mg/L		0.0029	0.0030	0.0028	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Treated Water - Entering Distribution ----	Raw Water - WTP ----	Raw Water - Intake ----	----	----
					Client sampling date / time	17-Nov-2025 08:10	17-Nov-2025 08:00	17-Nov-2025 08:30	----	----
						FC2503305-001	FC2503305-002	FC2503305-003	----	----
						Result	Result	Result	----	----
Dissolved Metals										
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L		3.00	2.92	2.38	----	----
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L		0.00077	0.00103	0.00220	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	0.000050	mg/L		0.000255	0.000220	0.000242	----	----
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L		0.00071	0.00063	0.00074	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L		<0.050	<0.050	<0.050	----	----
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L		0.979	0.996	0.949	----	----
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L		0.00089	0.00099	0.00090	----	----
Selenium, dissolved	7782-49-2	E421/EO	0.000050	mg/L		0.000055	0.000064	<0.000050	----	----
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L		1.68	1.89	1.95	----	----
Silver, dissolved	7440-22-4	E421/EO	0.000010	mg/L		<0.000010	<0.000010	<0.000010	----	----
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L		14.1	3.53	2.89	----	----
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L		0.0661	0.0656	0.0542	----	----
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L		1.74	1.54	0.95	----	----
Tellurium, dissolved	13494-80-9	E421/EO	0.00020	mg/L		<0.00020	<0.00020	<0.00020	----	----
Thallium, dissolved	7440-28-0	E421/EO	0.000010	mg/L		<0.000010	<0.000010	<0.000010	----	----
Thorium, dissolved	7440-29-1	E421/EO	0.00010	mg/L		<0.00010	<0.00010	<0.00010	----	----
Tin, dissolved	7440-31-5	E421/EO	0.00010	mg/L		<0.00010	<0.00010	<0.00010	----	----
Titanium, dissolved	7440-32-6	E421/EO	0.00030	mg/L		<0.00030	<0.00030	<0.00030	----	----
Tungsten, dissolved	7440-33-7	E421/EO	0.00010	mg/L		<0.00010	<0.00010	<0.00010	----	----
Uranium, dissolved	7440-61-1	E421/EO	0.000010	mg/L		<0.000010	0.000046	0.000035	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Treated Water - Entering Distribution ----	Raw Water - WTP ----	Raw Water - Intake ----	----	----
					Client sampling date / time	17-Nov-2025 08:10	17-Nov-2025 08:00	17-Nov-2025 08:30	----	----
						FC2503305-001	FC2503305-002	FC2503305-003	----	----
						Result	Result	Result	----	----
Dissolved Metals										
Vanadium, dissolved	7440-62-2	E421/EO	0.00050	mg/L		<0.00050	<0.00050	<0.00050	----	----
Zinc, dissolved	7440-66-6	E421/EO	0.0010	mg/L		0.0014	0.0065	0.0062	----	----
Zirconium, dissolved	7440-67-7	E421/EO	0.00020	mg/L		<0.00020	<0.00020	<0.00020	----	----
Dissolved metals filtration location	----	EP421/EO	-	-		Field	Field	Field	----	----
Aggregate Organics										
Naphthenic acids	----	E565/EO	1.0	mg/L		<1.0	<1.0	<1.0	----	----
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/EO	0.50	µg/L		<0.50	<0.50	<0.50	----	----
Ethylbenzene	100-41-4	E611A/EO	0.50	µg/L		<0.50	<0.50	<0.50	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611A/EO	0.50	µg/L		<0.50	<0.50	<0.50	----	----
Styrene	100-42-5	E611A/EO	0.50	µg/L		<0.50	<0.50	<0.50	----	----
Toluene	108-88-3	E611A/EO	0.50	µg/L		<0.50	<0.50	<0.50	----	----
Xylene, m+p-	179601-23-1	E611A/EO	0.40	µg/L		<0.40	<0.40	<0.40	----	----
Xylene, o-	95-47-6	E611A/EO	0.30	µg/L		<0.30	<0.30	<0.30	----	----
Xylenes, total	1330-20-7	E611A/EO	0.50	µg/L		<0.50	<0.50	<0.50	----	----
BTEX, total	----	E611A/EO	1.0	µg/L		<1.0	<1.0	<1.0	----	----
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/EO	100	µg/L		<100	<100	<100	----	----
F1-BTEX	----	EC580/EO	25	µg/L		<100	<100	<100	----	----
F2 (C10-C16)	----	E601/EO	100	µg/L		<100	<100	<100	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	Treated Water - Entering Distribution ----	Raw Water - WTP ----	Raw Water - Intake ----	----	----
					Client sampling date / time	17-Nov-2025 08:10	17-Nov-2025 08:00	17-Nov-2025 08:30	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		FC2503305-001	FC2503305-002	FC2503305-003	----	----
						Result	Result	Result	----	----
Hydrocarbons										
F3 (C16-C34)	----	E601/EO	250	µg/L		<250	<250	<250	----	----
F4 (C34-C50)	----	E601/EO	250	µg/L		<250	<250	<250	----	----
Hydrocarbons, total (C6-C50)	n/a	EC581/EO	370	µg/L		<380	<380	<380	----	----
TEH (C10-C50)	n/a	E601/EO	400	µg/L		<400	<400	<400	----	----
TEH (C16-C50)	----	E601/EO	400	µg/L		<400	<400	<400	----	----
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	1.0	%		103	105	105	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%		102	104	102	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%		84.9	87.7	84.8	----	----
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%		88.3	94.1	88.7	----	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Acenaphthylene	208-96-8	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Acridine	260-94-6	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Anthracene	120-12-7	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Benz(a)anthracene	56-55-3	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Benzo(a)pyrene	50-32-8	E641A/EO	0.0050	µg/L		<0.0050	<0.0050	<0.0050	----	----
Benzo(b+j)fluoranthene	n/a	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A/EO	0.015	µg/L		<0.015	<0.015	<0.015	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Treated Water - Entering Distribution ----	Raw Water - WTP ----	Raw Water - Intake ----	----	----
					Client sampling date / time	17-Nov-2025 08:10	17-Nov-2025 08:00	17-Nov-2025 08:30	----	----
						FC2503305-001	FC2503305-002	FC2503305-003	----	----
						Result	Result	Result	----	----
Polycyclic Aromatic Hydrocarbons										
Benzo(e)pyrene	192-97-2	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Benzo(g,h,i)perylene	191-24-2	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Benzo(k)fluoranthene	207-08-9	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Chrysene	218-01-9	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/EO	0.0050	µg/L		<0.0050	<0.0050	<0.0050	----	----
Fluoranthene	206-44-0	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Fluorene	86-73-7	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Methylnaphthalene, 1-	90-12-0	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Methylnaphthalene, 1+2-	----	E641A/EO	0.015	µg/L		<0.015	<0.015	<0.015	----	----
Methylnaphthalene, 2-	91-57-6	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Naphthalene	91-20-3	E641A/EO	0.050	µg/L		<0.050	<0.050	<0.050	----	----
Perylene	198-55-0	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Phenanthrene	85-01-8	E641A/EO	0.020	µg/L		<0.020	<0.020	<0.020	----	----
Pyrene	129-00-0	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
Quinoline	91-22-5	E641A/EO	0.050	µg/L		<0.050	<0.050	<0.050	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/EO	0.010	µg/L		<0.010	<0.010	<0.010	----	----
PAHs, high molecular weight (BC AWQ)	n/a	E641A/EO	0.030	µg/L		<0.030	<0.030	<0.030	----	----
PAHs, low molecular weight (BC AWQ)	n/a	E641A/EO	0.060	µg/L		<0.060	<0.060	<0.060	----	----
PAHs, total (CCME sewer 18)	n/a	E641A/EO	0.070	µg/L		<0.070	<0.070	<0.070	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Treated Water - Entering Distribution ----	Raw Water - WTP ----	Raw Water - Intake ----	----	----
Client sample ID									
Client sampling date / time					17-Nov-2025 08:10	17-Nov-2025 08:00	17-Nov-2025 08:30	----	----
					FC2503305-001	FC2503305-002	FC2503305-003	----	----
					Result	Result	Result	----	----
Polycyclic Aromatic Hydrocarbons									
PAHs, total (EPA 16)	n/a	E641A/EO	0.065	µg/L	<0.065	<0.065	<0.065	----	----
PAHs, total (P2MMP)	n/a	E641A/EO	0.040	µg/L	<0.040	<0.040	<0.040	----	----
Polycyclic Aromatic Hydrocarbons Surrogates									
Chrysene-d12	1719-03-5	E641A/EO	0.1	%	122	121	125	----	----
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	102	95.3	115	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	112	110	122	----	----
DIsinfectant By-Products									
Chlorate	14866-68-3	E409.CLO3/WT	0.010	mg/L	0.068	<0.010	<0.010	----	----
Chlorite	14998-27-7	E409.CLO2/WT	0.010	mg/L	<0.010	<0.010	<0.010	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

CERTIFICATE OF ANALYSIS

Work Order	: **FC2503305**	Page	: 1 of 14
Client	: **Regional Municipality of Wood Buffalo**	Laboratory	: ALS Environmental - Fort McMurray
Contact	: Water Treatment Plant	Account Manager	: Megha Walia
Address	: 1 Silin Forest Road Fort Mcmurray AB Canada T9H 5A1	Address	: #4, 340 Macalpine Crescent Fort McMurray AB Canada T9H 4A8
Telephone	: 780-762-5863	Telephone	: +1 780 791 1524
Project	: Fort Chipewyan Imperial Release	Date Samples Received	: 18-Nov-2025 15:00
PO	: 4500060925	Date Analysis Commenced	: 19-Nov-2025
C-O-C number	: ----	Issue Date	: 20-Nov-2025 20:16
Sampler	: EA		
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 3		
No. of samples analysed	: 3		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Alastair McGibbon	Laboratory Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Alex Drake	Lab Analyst	Organics, Edmonton, Alberta
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Dan Nguyen	Team Leader - Inorganics	Metals, Edmonton, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
John Tang	Lab Analyst	Inorganics, Waterloo, Ontario
Kate Dimitrova	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Metals, Edmonton, Alberta
Remy Gatabazi	Lab Analyst	Organics, Edmonton, Alberta
Yan Zhang	Team Leader - Organics	Organics, Edmonton, Alberta

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
%	percent
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre
mg/L	milligrams per litre
pH units	pH units
psu	practical salinity units

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

CORRECTION MADE TO PO # AS PER COC

Analytical Results

FC2503305-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Treated Water - Entering Distribution
Client sampling date / time: 17-Nov-2025 08:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	57.3	1.2	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435
Alkalinity, total (as CaCO3)	----	47.0	1.0	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435
Conductivity	----	148	1.0	µS/cm	E100/EO	19-Nov-2025	19-Nov-2025	2344434
Hardness (as CaCO3), dissolved	----	38.3	0.50	mg/L	EC100/EO	-	19-Nov-2025	-
pH	----	8.07	0.10	pH units	E108/EO	19-Nov-2025	19-Nov-2025	2344433
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	20-Nov-2025	-
Solids, total dissolved [TDS], calculated	----	78.9	1.0	mg/L	EC103/EO	-	19-Nov-2025	-
Anions and Nutrients								
Chloride	16887-00-6	13.0	0.50	mg/L	E235.Cl/EO	19-Nov-2025	19-Nov-2025	2344789
Fluoride	16984-48-8	0.069	0.020	mg/L	E235.F/EO	19-Nov-2025	19-Nov-2025	2344786
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	19-Nov-2025	19-Nov-2025	2344790
Nitrate + Nitrite (as N)	----	<0.022	0.022	mg/L	EC235.N+N/EO	-	19-Nov-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	19-Nov-2025	19-Nov-2025	2344787
Sulfate (as SO4)	14808-79-8	4.55	0.30	mg/L	E235.SO4/EO	19-Nov-2025	19-Nov-2025	2344788
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	20-Nov-2025	2346535
Sulfide, total (as H2S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	20-Nov-2025	2346535
Metals								
Sodium adsorption ratio [SAR]	----	0.99	0.10	-	EC102A/EO	-	19-Nov-2025	-
Ion Balance								
Ion balance (cations/anions)	----	101	0.010	%	EC101/EO	-	19-Nov-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0287	0.0030	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Arsenic, total	7440-38-2	0.00022	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Barium, total	7440-39-3	0.0209	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Boron, total	7440-42-8	0.013	0.010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Calcium, total	7440-70-2	10.5	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Cesium, total	7440-46-2	<0.000010	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Copper, total	7440-50-8	0.00078	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Iron, total	7439-89-6	<0.010	0.010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Lithium, total	7439-93-2	0.0031	0.0010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Magnesium, total	7439-95-4	3.03	0.0050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Manganese, total	7439-96-5	0.00116	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Molybdenum, total	7439-98-7	0.000253	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Nickel, total	7440-02-0	0.00058	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768

Analytical Results

FC2503305-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Treated Water - Entering Distribution
Client sampling date / time: 17-Nov-2025 08:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Potassium, total	7440-09-7	1.03	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Rubidium, total	7440-17-7	0.00098	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Silicon, total	7440-21-3	1.72	0.10	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Sodium, total	7440-23-5	14.7	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Strontium, total	7440-24-6	0.0681	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Sulfur, total	7704-34-9	1.58	0.50	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Tin, total	7440-31-5	0.00016	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Titanium, total	7440-32-6	<0.00030	0.00030	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Uranium, total	7440-61-1	<0.000010	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Zinc, total	7440-66-6	0.0101	0.0030	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0251	0.0010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Arsenic, dissolved	7440-38-2	0.00018	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Barium, dissolved	7440-39-3	0.0203	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Calcium, dissolved	7440-70-2	10.4	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Copper, dissolved	7440-50-8	0.00074	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Lithium, dissolved	7439-93-2	0.0029	0.0010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Magnesium, dissolved	7439-95-4	3.00	0.0050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Manganese, dissolved	7439-96-5	0.00077	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Molybdenum, dissolved	7439-98-7	0.000255	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Nickel, dissolved	7440-02-0	0.00071	0.00050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Potassium, dissolved	7440-09-7	0.979	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Rubidium, dissolved	7440-17-7	0.00089	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Selenium, dissolved	7782-49-2	0.000055	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Silicon, dissolved	7440-21-3	1.68	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149

Analytical Results

FC2503305-001
Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Treated Water - Entering Distribution
Client sampling date / time: 17-Nov-2025 08:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sodium, dissolved	7440-23-5	14.1	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Strontium, dissolved	7440-24-6	0.0661	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Sulfur, dissolved	7704-34-9	1.74	0.50	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Zinc, dissolved	7440-66-6	0.0014	0.0010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	19-Nov-2025	2345149
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	19-Nov-2025	19-Nov-2025	2344446
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	19-Nov-2025	19-Nov-2025	2344254
F1-BTEX	----	<100	100	µg/L	EC580/EO	-	19-Nov-2025	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	19-Nov-2025	-
TEH (C10-C50)	n/a	<400	400	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
TEH (C16-C50)	----	<400	400	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	103	1.0	%	E601/EO	19-Nov-2025	19-Nov-2025	2344270
Dichlorotoluene, 3,4-	95-75-0	102	1.0	%	E581.F1/EO	19-Nov-2025	19-Nov-2025	2344254
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	84.9	1.0	%	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Difluorobenzene, 1,4-	540-36-3	88.3	1.0	%	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271

Analytical Results

FC2503305-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Treated Water - Entering Distribution
Client sampling date / time: 17-Nov-2025 08:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.03	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.06	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, total (CCME sewer 18)	n/a	<0.070	0.07	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, total (P2MMP)	n/a	<0.040	0.04	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	122	0.1	%	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Naphthalene-d8	1146-65-2	102	0.1	%	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Phenanthrene-d10	1517-22-2	112	0.1	%	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
DIsinfectant By-Products								
Chlorate	14866-68-3	0.068	0.010	mg/L	E409.CLO3/WT	20-Nov-2025	20-Nov-2025	2347149
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	20-Nov-2025	20-Nov-2025	2347150

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

FC2503305-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water - WTP
Client sampling date / time: 17-Nov-2025 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	42.3	1.2	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435

Analytical Results

FC2503305-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water - WTP
Client sampling date / time: 17-Nov-2025 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435
Alkalinity, total (as CaCO3)	----	34.7	1.0	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435
Conductivity	----	90.8	1.0	µS/cm	E100/EO	19-Nov-2025	19-Nov-2025	2344434
Hardness (as CaCO3), dissolved	----	35.5	0.50	mg/L	EC100/EO	-	19-Nov-2025	-
pH	----	7.62	0.10	pH units	E108/EO	19-Nov-2025	19-Nov-2025	2344433
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	20-Nov-2025	-
Solids, total dissolved [TDS], calculated	----	50.9	1.0	mg/L	EC103/EO	-	19-Nov-2025	-
Anions and Nutrients								
Chloride	16887-00-6	3.59	0.50	mg/L	E235.Cl/EO	19-Nov-2025	19-Nov-2025	2344789
Fluoride	16984-48-8	0.107	0.020	mg/L	E235.F/EO	19-Nov-2025	19-Nov-2025	2344786
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	19-Nov-2025	19-Nov-2025	2344790
Nitrate + Nitrite (as N)	----	<0.022	0.022	mg/L	EC235.N+N/EO	-	19-Nov-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	19-Nov-2025	19-Nov-2025	2344787
Sulfate (as SO4)	14808-79-8	4.42	0.30	mg/L	E235.SO4/EO	19-Nov-2025	19-Nov-2025	2344788
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	20-Nov-2025	2346535
Sulfide, total (as H2S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	20-Nov-2025	2346535
Metals								
Sodium adsorption ratio [SAR]	----	0.26	0.10	-	EC102A/EO	-	19-Nov-2025	-
Ion Balance								
Ion balance (cations/anions)	----	100	0.010	%	EC101/EO	-	19-Nov-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.377	0.0030	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Arsenic, total	7440-38-2	0.00071	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Barium, total	7440-39-3	0.0274	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Beryllium, total	7440-41-7	0.000028	0.000020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Boron, total	7440-42-8	0.014	0.010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Cadmium, total	7440-43-9	0.0000158	0.0000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Calcium, total	7440-70-2	10.0	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Cesium, total	7440-46-2	0.000118	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Chromium, total	7440-47-3	0.00064	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Cobalt, total	7440-48-4	0.00027	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Copper, total	7440-50-8	0.00226	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Iron, total	7439-89-6	0.814	0.010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Lead, total	7439-92-1	0.000524	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Lithium, total	7439-93-2	0.0036	0.0010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Magnesium, total	7439-95-4	3.14	0.0050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Manganese, total	7439-96-5	0.0253	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Molybdenum, total	7439-98-7	0.000233	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Nickel, total	7440-02-0	0.00104	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Potassium, total	7440-09-7	1.13	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768

Analytical Results

FC2503305-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water - WTP
Client sampling date / time: 17-Nov-2025 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Rubidium, total	7440-17-7	0.00213	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Silicon, total	7440-21-3	2.65	0.10	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Sodium, total	7440-23-5	3.72	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Strontium, total	7440-24-6	0.0718	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Sulfur, total	7704-34-9	1.73	0.50	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Thallium, total	7440-28-0	0.000013	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Tin, total	7440-31-5	0.00012	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Titanium, total	7440-32-6	0.00922	0.00030	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Uranium, total	7440-61-1	0.000096	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Vanadium, total	7440-62-2	0.00158	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Zinc, total	7440-66-6	0.0034	0.0030	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0047	0.0010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Antimony, dissolved	7440-36-0	0.00011	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Barium, dissolved	7440-39-3	0.0201	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Calcium, dissolved	7440-70-2	9.40	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Copper, dissolved	7440-50-8	0.00112	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Iron, dissolved	7439-89-6	0.011	0.010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Lithium, dissolved	7439-93-2	0.0030	0.0010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Magnesium, dissolved	7439-95-4	2.92	0.0050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Manganese, dissolved	7439-96-5	0.00103	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Molybdenum, dissolved	7439-98-7	0.000220	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Nickel, dissolved	7440-02-0	0.00063	0.00050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Potassium, dissolved	7440-09-7	0.996	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Rubidium, dissolved	7440-17-7	0.00099	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Selenium, dissolved	7782-49-2	0.000064	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Silicon, dissolved	7440-21-3	1.89	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Sodium, dissolved	7440-23-5	3.53	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149

Analytical Results

FC2503305-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water - WTP
Client sampling date / time: 17-Nov-2025 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Strontium, dissolved	7440-24-6	0.0656	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Sulfur, dissolved	7704-34-9	1.54	0.50	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Uranium, dissolved	7440-61-1	0.000046	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Zinc, dissolved	7440-66-6	0.0065	0.0010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	19-Nov-2025	2345149
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	19-Nov-2025	19-Nov-2025	2344446
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	19-Nov-2025	19-Nov-2025	2344254
F1-BTEX	----	<100	100	µg/L	EC580/EO	-	19-Nov-2025	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	19-Nov-2025	-
TEH (C10-C50)	n/a	<400	400	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
TEH (C16-C50)	----	<400	400	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	105	1.0	%	E601/EO	19-Nov-2025	19-Nov-2025	2344270
Dichlorotoluene, 3,4-	95-75-0	104	1.0	%	E581.F1/EO	19-Nov-2025	19-Nov-2025	2344254
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	87.7	1.0	%	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Difluorobenzene, 1,4-	540-36-3	94.1	1.0	%	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271

Analytical Results

FC2503305-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water - WTP
Client sampling date / time: 17-Nov-2025 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.03	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.06	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, total (CCME sewer 18)	n/a	<0.070	0.07	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, total (P2MMP)	n/a	<0.040	0.04	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	121	0.1	%	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Naphthalene-d8	1146-65-2	95.3	0.1	%	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Phenanthrene-d10	1517-22-2	110	0.1	%	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
DIsinfectant By-Products								
Chlorate	14866-68-3	<0.010	0.010	mg/L	E409.CLO3/WT	20-Nov-2025	20-Nov-2025	2347149
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	20-Nov-2025	20-Nov-2025	2347150

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

FC2503305-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water - Intake
Client sampling date / time: 17-Nov-2025 08:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	32.6	1.2	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435
Alkalinity, carbonate (as CO3)	3812-32-6	<0.6	0.6	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435

Analytical Results

FC2503305-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water - Intake
Client sampling date / time: 17-Nov-2025 08:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435
Alkalinity, total (as CaCO3)	----	26.7	1.0	mg/L	E290/EO	19-Nov-2025	19-Nov-2025	2344435
Conductivity	----	70.8	1.0	µS/cm	E100/EO	19-Nov-2025	19-Nov-2025	2344434
Hardness (as CaCO3), dissolved	----	28.5	0.50	mg/L	EC100/EO	-	19-Nov-2025	-
pH	----	7.83	0.10	pH units	E108/EO	19-Nov-2025	19-Nov-2025	2344433
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	20-Nov-2025	-
Solids, total dissolved [TDS], calculated	----	41.0	1.0	mg/L	EC103/EO	-	19-Nov-2025	-
Anions and Nutrients								
Chloride	16887-00-6	2.73	0.50	mg/L	E235.Cl/EO	19-Nov-2025	19-Nov-2025	2344789
Fluoride	16984-48-8	0.106	0.020	mg/L	E235.F/EO	19-Nov-2025	19-Nov-2025	2344786
Nitrate (as N)	14797-55-8	0.026	0.020	mg/L	E235.NO3/EO	19-Nov-2025	19-Nov-2025	2344790
Nitrate + Nitrite (as N)	----	0.0260	0.022	mg/L	EC235.N+N/EO	-	19-Nov-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	19-Nov-2025	19-Nov-2025	2344787
Sulfate (as SO4)	14808-79-8	3.04	0.30	mg/L	E235.SO4/EO	19-Nov-2025	19-Nov-2025	2344788
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	20-Nov-2025	2346535
Sulfide, total (as H2S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	20-Nov-2025	2346535
Metals								
Sodium adsorption ratio [SAR]	----	0.24	0.10	-	EC102A/EO	-	19-Nov-2025	-
Ion Balance								
Ion balance (cations/anions)	----	106	0.010	%	EC101/EO	-	19-Nov-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.741	0.0030	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Arsenic, total	7440-38-2	0.00087	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Barium, total	7440-39-3	0.0257	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Beryllium, total	7440-41-7	0.000050	0.000020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Boron, total	7440-42-8	0.014	0.010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Cadmium, total	7440-43-9	0.0000211	0.0000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Calcium, total	7440-70-2	8.01	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Cesium, total	7440-46-2	0.000181	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Chromium, total	7440-47-3	0.00125	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Cobalt, total	7440-48-4	0.00050	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Copper, total	7440-50-8	0.00168	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Iron, total	7439-89-6	1.39	0.010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Lead, total	7439-92-1	0.000707	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Lithium, total	7439-93-2	0.0037	0.0010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Magnesium, total	7439-95-4	2.71	0.0050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Manganese, total	7439-96-5	0.0367	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Molybdenum, total	7439-98-7	0.000239	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Nickel, total	7440-02-0	0.00191	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Potassium, total	7440-09-7	1.17	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Rubidium, total	7440-17-7	0.00297	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768

Analytical Results

FC2503305-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water - Intake
Client sampling date / time: 17-Nov-2025 08:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Selenium, total	7782-49-2	0.000075	0.000050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Silicon, total	7440-21-3	3.41	0.10	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Silver, total	7440-22-4	0.000011	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Sodium, total	7440-23-5	2.81	0.050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Strontium, total	7440-24-6	0.0591	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Sulfur, total	7704-34-9	0.86	0.50	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Thallium, total	7440-28-0	0.000022	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Thorium, total	7440-29-1	0.00014	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Tin, total	7440-31-5	0.00013	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Titanium, total	7440-32-6	0.0192	0.00030	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Uranium, total	7440-61-1	0.000144	0.000010	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Vanadium, total	7440-62-2	0.00260	0.00050	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Zinc, total	7440-66-6	0.0068	0.0030	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Zirconium, total	7440-67-7	0.00027	0.00020	mg/L	E420/EO	19-Nov-2025	19-Nov-2025	2344768
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0073	0.0010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Arsenic, dissolved	7440-38-2	0.00017	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Barium, dissolved	7440-39-3	0.0145	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Boron, dissolved	7440-42-8	0.012	0.010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Calcium, dissolved	7440-70-2	7.49	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Copper, dissolved	7440-50-8	0.00076	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Lithium, dissolved	7439-93-2	0.0028	0.0010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Magnesium, dissolved	7439-95-4	2.38	0.0050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Manganese, dissolved	7439-96-5	0.00220	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Molybdenum, dissolved	7439-98-7	0.000242	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Nickel, dissolved	7440-02-0	0.00074	0.00050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Potassium, dissolved	7440-09-7	0.949	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Rubidium, dissolved	7440-17-7	0.00090	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Silicon, dissolved	7440-21-3	1.95	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Sodium, dissolved	7440-23-5	2.89	0.050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Strontium, dissolved	7440-24-6	0.0542	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149

Analytical Results

FC2503305-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water - Intake
Client sampling date / time: 17-Nov-2025 08:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	0.95	0.50	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Uranium, dissolved	7440-61-1	0.000035	0.000010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Zinc, dissolved	7440-66-6	0.0062	0.0010	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	19-Nov-2025	19-Nov-2025	2345149
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	19-Nov-2025	2345149
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	19-Nov-2025	19-Nov-2025	2344446
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	19-Nov-2025	19-Nov-2025	2344254
F1-BTEX	----	<100	100	µg/L	EC580/EO	-	19-Nov-2025	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	19-Nov-2025	-
TEH (C10-C50)	n/a	<400	400	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
TEH (C16-C50)	----	<400	400	µg/L	E601/EO	19-Nov-2025	19-Nov-2025	2344270
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	105	1.0	%	E601/EO	19-Nov-2025	19-Nov-2025	2344270
Dichlorotoluene, 3,4-	95-75-0	102	1.0	%	E581.F1/EO	19-Nov-2025	19-Nov-2025	2344254
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	84.8	1.0	%	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Difluorobenzene, 1,4-	540-36-3	88.7	1.0	%	E611A/EO	19-Nov-2025	19-Nov-2025	2344253
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271

Analytical Results

FC2503305-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water - Intake
Client sampling date / time: 17-Nov-2025 08:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.03	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.06	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, total (CCME sewer 18)	n/a	<0.070	0.07	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
PAHs, total (P2MMP)	n/a	<0.040	0.04	µg/L	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	125	0.1	%	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Naphthalene-d8	1146-65-2	115	0.1	%	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
Phenanthrene-d10	1517-22-2	122	0.1	%	E641A/EO	19-Nov-2025	19-Nov-2025	2344271
DIsinfectant By-Products								
Chlorate	14866-68-3	<0.010	0.010	mg/L	E409.CLO3/WT	20-Nov-2025	20-Nov-2025	2347149
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	20-Nov-2025	20-Nov-2025	2347150

Please refer to the General Comments section for an explanation of any result qualifiers detected.