
CERTIFICATE OF ANALYSIS

Work Order : **FC2500522**
Client : **Regional Municipality of Wood Buffalo**
Contact : Water Treatment Plant
Address : 1 Silin Forest Road
Fort McMurray Alberta Canada T9H 5A1
Telephone : 780-762-5863
Project : Fort Chipewyan Table 1
PO : 4500061478
C-O-C number : ----
Sampler : Emran A
Site : ----
Quote number : Water Treatment Plant
No. of samples received : 2
No. of samples analysed : 2

Laboratory : ALS Environmental - Calgary
Account Manager : Megha Walia
Address : 2559 29th Street NE
Calgary AB Canada T1Y 7B5
Telephone : +1 403 407 1800
Date Samples Received : 06-Mar-2025 16:30
Date Analysis Commenced : 07-Mar-2025
Issue Date : 13-Mar-2025 16:51

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Harpreet Chawla	Team Leader - Inorganics	Metals, Calgary, Alberta
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Lindsay Gung	Supervisor - Water Chemistry	Inorganics, Burnaby, British Columbia
Shruti Mudliar	Lab Analyst	Inorganics, Edmonton, Alberta
Shruti Mudliar	Lab Analyst	Metals, 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.



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	06-Mar-2025 09:30	06-Mar-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500522-001	FC2500522-002	----	----	----	----
					Result	Result	----	----	----	----
Physical Tests										
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	E290/EO	1.2	mg/L	56.1	37.2	----	----	----	----
Alkalinity, carbonate (as CO ₃)	3812-32-6	E290/EO	1.0	mg/L	<0.6	<0.6	----	----	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	1.0	mg/L	<0.3	<0.3	----	----	----	----
Alkalinity, total (as CaCO ₃)	----	E290/EO	1.0	mg/L	46.0	30.5	----	----	----	----
Conductivity	----	E100/EO	1.0	µS/cm	140	82.5	----	----	----	----
Hardness (as CaCO ₃), dissolved	----	EC100/EO	0.50	mg/L	33.8	32.0	----	----	----	----
pH	----	E108/EO	0.10	pH units	7.93	7.25	----	----	----	----
Salinity	----	EC100S/VA	1.0	psu	<1.0	<1.0	----	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	77.9	47.4	----	----	----	----
Anions and Nutrients										
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	13.5	3.65	----	----	----	----
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	0.035	0.067	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/EO	0.020	mg/L	0.076	0.071	----	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/E O	0.0032	mg/L	0.0760	0.0710	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/EO	0.010	mg/L	<0.010	<0.010	----	----	----	----
Sulfate (as SO ₄)	14808-79-8	E235.SO4/EO	0.30	mg/L	3.79	3.96	----	----	----	----
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L	<0.0015	<0.0015	----	----	----	----
Sulfide, total (as H ₂ S)	7783-06-4	E395/CG	0.0016	mg/L	<0.0016	<0.0016	----	----	----	----
Ion Balance										
Ion balance (cations/anions)	----	EC101/EO	0.010	%	95.0	100	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	06-Mar-2025 09:30	06-Mar-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500522-001	FC2500522-002	----	----	----	----
					Result	Result	----	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/CG	0.0030	mg/L	0.0236	0.0276	----	----	----	----
Antimony, total	7440-36-0	E420/CG	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Arsenic, total	7440-38-2	E420/CG	0.00010	mg/L	0.00011	0.00022	----	----	----	----
Barium, total	7440-39-3	E420/CG	0.00010	mg/L	0.0166	0.0162	----	----	----	----
Beryllium, total	7440-41-7	E420/CG	0.000020	mg/L	<0.000020	<0.000020	----	----	----	----
Bismuth, total	7440-69-9	E420/CG	0.000050	mg/L	<0.000050	<0.000050	----	----	----	----
Boron, total	7440-42-8	E420/CG	0.010	mg/L	0.014	0.013	----	----	----	----
Cadmium, total	7440-43-9	E420/CG	0.0000050	mg/L	<0.0000050	<0.0000050	----	----	----	----
Calcium, total	7440-70-2	E420/CG	0.050	mg/L	9.32	8.68	----	----	----	----
Cesium, total	7440-46-2	E420/CG	0.000010	mg/L	<0.000010	<0.000010	----	----	----	----
Chromium, total	7440-47-3	E420/CG	0.00050	mg/L	<0.00050	0.00053	----	----	----	----
Cobalt, total	7440-48-4	E420/CG	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Copper, total	7440-50-8	E420/CG	0.00050	mg/L	0.00060	0.00147	----	----	----	----
Iron, total	7439-89-6	E420/CG	0.010	mg/L	<0.010	0.103	----	----	----	----
Lead, total	7439-92-1	E420/CG	0.000050	mg/L	<0.000050	<0.000050	----	----	----	----
Lithium, total	7439-93-2	E420/CG	0.0010	mg/L	0.0030	0.0027	----	----	----	----
Magnesium, total	7439-95-4	E420/CG	0.0050	mg/L	2.69	2.64	----	----	----	----
Manganese, total	7439-96-5	E420/CG	0.00010	mg/L	0.00518	0.00721	----	----	----	----
Molybdenum, total	7439-98-7	E420/CG	0.000050	mg/L	0.000198	0.000219	----	----	----	----
Nickel, total	7440-02-0	E420/CG	0.00050	mg/L	<0.00050	0.00055	----	----	----	----
Phosphorus, total	7723-14-0	E420/CG	0.050	mg/L	<0.050	<0.050	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	06-Mar-2025 09:30	06-Mar-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500522-001	FC2500522-002	----	----	----	----
					Result	Result	----	----	----	----
Total Metals										
Potassium, total	7440-09-7	E420/CG	0.050	mg/L	1.02	1.01	----	----	----	----
Rubidium, total	7440-17-7	E420/CG	0.00020	mg/L	0.00110	0.00104	----	----	----	----
Selenium, total	7782-49-2	E420/CG	0.000050	mg/L	<0.000050	<0.000050	----	----	----	----
Silicon, total	7440-21-3	E420/CG	0.10	mg/L	2.15	2.28	----	----	----	----
Silver, total	7440-22-4	E420/CG	0.000010	mg/L	<0.000010	<0.000010	----	----	----	----
Sodium, total	7440-23-5	E420/CG	0.050	mg/L	16.3	3.37	----	----	----	----
Strontium, total	7440-24-6	E420/CG	0.00020	mg/L	0.0693	0.0670	----	----	----	----
Sulfur, total	7704-34-9	E420/CG	0.50	mg/L	1.49	1.52	----	----	----	----
Tellurium, total	13494-80-9	E420/CG	0.00020	mg/L	<0.00020	<0.00020	----	----	----	----
Thallium, total	7440-28-0	E420/CG	0.000010	mg/L	<0.000010	<0.000010	----	----	----	----
Thorium, total	7440-29-1	E420/CG	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Tin, total	7440-31-5	E420/CG	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Titanium, total	7440-32-6	E420/CG	0.00030	mg/L	<0.00030	0.00062	----	----	----	----
Tungsten, total	7440-33-7	E420/CG	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Uranium, total	7440-61-1	E420/CG	0.000010	mg/L	<0.000010	0.000069	----	----	----	----
Vanadium, total	7440-62-2	E420/CG	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----
Zinc, total	7440-66-6	E420/CG	0.0030	mg/L	<0.0030	<0.0030	----	----	----	----
Zirconium, total	7440-67-7	E420/CG	0.00020	mg/L	<0.00020	<0.00020	----	----	----	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L	0.0190	0.0037	----	----	----	----
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	06-Mar-2025 09:30	06-Mar-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500522-001	FC2500522-002	----	----	----	----
					Result	Result	----	----	----	----
Dissolved Metals										
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L	<0.00010	0.00018	----	----	----	----
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0155	0.0154	----	----	----	----
Beryllium, dissolved	7440-41-7	E421/EO	0.000020	mg/L	<0.000020	<0.000020	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/EO	0.000050	mg/L	<0.000050	<0.000050	----	----	----	----
Boron, dissolved	7440-42-8	E421/EO	0.010	mg/L	0.012	0.012	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	0.0000050	mg/L	<0.0000050	<0.0000050	----	----	----	----
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	9.04	8.36	----	----	----	----
Cesium, dissolved	7440-46-2	E421/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----	----
Chromium, dissolved	7440-47-3	E421/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----
Cobalt, dissolved	7440-48-4	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Copper, dissolved	7440-50-8	E421/EO	0.00020	mg/L	0.00053	0.00132	----	----	----	----
Iron, dissolved	7439-89-6	E421/EO	0.010	mg/L	<0.010	0.031	----	----	----	----
Lead, dissolved	7439-92-1	E421/EO	0.000050	mg/L	<0.000050	<0.000050	----	----	----	----
Lithium, dissolved	7439-93-2	E421/EO	0.0010	mg/L	0.0030	0.0029	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	2.72	2.70	----	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.00229	0.00463	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	0.000050	mg/L	0.000187	0.000191	----	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L	<0.050	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	0.937	0.946	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00102	0.00099	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	06-Mar-2025 09:30	06-Mar-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500522-001	FC2500522-002	----	----	----	----
					Result	Result	----	----	----	----
Dissolved Metals										
Selenium, dissolved	7782-49-2	E421/EO	0.000050	mg/L	<0.000050	<0.000050	----	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	2.08	2.22	----	----	----	----
Silver, dissolved	7440-22-4	E421/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	14.3	3.09	----	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.0636	0.0612	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	1.22	1.34	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/EO	0.00020	mg/L	<0.00020	<0.00020	----	----	----	----
Thallium, dissolved	7440-28-0	E421/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----	----
Thorium, dissolved	7440-29-1	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Tin, dissolved	7440-31-5	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Titanium, dissolved	7440-32-6	E421/EO	0.00030	mg/L	<0.00030	<0.00030	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Uranium, dissolved	7440-61-1	E421/EO	0.000010	mg/L	<0.000010	0.000066	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----
Zinc, dissolved	7440-66-6	E421/EO	0.0010	mg/L	<0.0010	0.0016	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	0.00020	mg/L	<0.00020	<0.00020	----	----	----	----
Dissolved metals filtration location	----	EP421/EO	-	-	Field	Field	----	----	----	----
Aggregate Organics										
Naphthenic acids	----	E565/EO	1.0	mg/L	<1.0	<1.0	----	----	----	----
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/EO	0.50	µg/L	<0.50	<0.50	----	----	----	----



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	06-Mar-2025 09:30	06-Mar-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500522-001	FC2500522-002	----	----	----	----
					Result	Result	----	----	----	----
Volatile Organic Compounds [Fuels]										
Ethylbenzene	100-41-4	E611A/EO	0.50	µg/L	<0.50	<0.50	----	----	----	----
Styrene	100-42-5	E611A/EO	0.50	µg/L	<0.50	<0.50	----	----	----	----
Toluene	108-88-3	E611A/EO	0.50	µg/L	<0.50	<0.50	----	----	----	----
Xylene, m+p-	179601-23-1	E611A/EO	0.40	µg/L	<0.40	<0.40	----	----	----	----
Xylene, o-	95-47-6	E611A/EO	0.30	µg/L	<0.30	<0.30	----	----	----	----
Xylenes, total	1330-20-7	E611A/EO	0.50	µg/L	<0.50	<0.50	----	----	----	----
BTEX, total	----	E611A/EO	1.0	µg/L	<1.0	<1.0	----	----	----	----
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/EO	100	µg/L	<100	<100	----	----	----	----
F1-BTEX	----	EC580/EO	25	µg/L	<100	<100	----	----	----	----
F2 (C10-C16)	----	E601/EO	100	µg/L	<100	<100	----	----	----	----
F3 (C16-C34)	----	E601/EO	250	µg/L	<250	<250	----	----	----	----
F4 (C34-C50)	----	E601/EO	250	µg/L	<250	<250	----	----	----	----
Hydrocarbons, total (C6-C50)	n/a	EC581/EO	370	µg/L	<380	<380	----	----	----	----
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	1.0	%	102	102	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%	103	99.9	----	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%	89.3	86.9	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%	76.1	75.6	----	----	----	----



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	06-Mar-2025 09:30	06-Mar-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500522-001	FC2500522-002	----	----	----	----
					Result	Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Acenaphthylene	208-96-8	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Acridine	260-94-6	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Anthracene	120-12-7	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Benz(a)anthracene	56-55-3	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Benzo(a)pyrene	50-32-8	E641A/EO	0.0050	µg/L	<0.0050	<0.0050	----	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A/EO	0.015	µg/L	<0.015	<0.015	----	----	----	----
Benzo(g,h,i)perylene	191-24-2	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Chrysene	218-01-9	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/EO	0.0050	µg/L	<0.0050	<0.0050	----	----	----	----
Fluoranthene	206-44-0	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Fluorene	86-73-7	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Methylnaphthalene, 1+2-	----	E641A/EO	0.015	µg/L	<0.015	<0.015	----	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
Naphthalene	91-20-3	E641A/EO	0.050	µg/L	<0.050	<0.050	----	----	----	----
Phenanthrene	85-01-8	E641A/EO	0.020	µg/L	<0.020	<0.020	----	----	----	----
Pyrene	129-00-0	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
Client sampling date / time					06-Mar-2025 09:30	06-Mar-2025 09:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500522-001	FC2500522-002	----	----	----	----
					Result	Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons										
Quinoline	91-22-5	E641A/EO	0.050	µg/L	<0.050	<0.050	----	----	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	----
PAHs, high molecular weight (BC AWQ)	n/a	E641A/EO	0.030	µg/L	<0.030	<0.030	----	----	----	----
PAHs, low molecular weight (BC AWQ)	n/a	E641A/EO	0.060	µg/L	<0.060	<0.060	----	----	----	----
PAHs, total (CCME sewer 18)	n/a	E641A/EO	0.070	µg/L	<0.070	<0.070	----	----	----	----
PAHs, total (EPA 16)	n/a	E641A/EO	0.065	µg/L	<0.065	<0.065	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/EO	0.1	%	77.3	101	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	89.6	108	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	89.7	117	----	----	----	----

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

CERTIFICATE OF ANALYSIS

Work Order	: FC2500522	Page	: 1 of 10
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 Table 1	Date Samples Received	: 06-Mar-2025 16:30
PO	: 4500061478	Date Analysis	: 07-Mar-2025
		Commenced	
		Issue Date	: 13-Mar-2025 16:51
C-O-C number	: ----		
Sampler	: Emran A		
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 2		
No. of samples analysed	: 2		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Harpreet Chawla	Team Leader - Inorganics	Metals, Calgary, Alberta
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Lindsay Gung	Supervisor - Water Chemistry	Inorganics, Burnaby, British Columbia
Shruti Mudliar	Lab Analyst	Inorganics, Edmonton, Alberta
Shruti Mudliar	Lab Analyst	Metals, 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.

<i>Unit</i>	<i>Description</i>
-	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.



Analytical Results

FC2500522-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 06-Mar-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	56.1	1.2	mg/L	E290/EO	07-Mar-2025	07-Mar-2025	1899694
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	07-Mar-2025	07-Mar-2025	1899694
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	07-Mar-2025	07-Mar-2025	1899694
Alkalinity, total (as CaCO ₃)	----	46.0	1.0	mg/L	E290/EO	07-Mar-2025	07-Mar-2025	1899694
Conductivity	----	140	1.0	µS/cm	E100/EO	07-Mar-2025	07-Mar-2025	1899693
Hardness (as CaCO ₃), dissolved	----	33.8	0.50	mg/L	EC100/EO	-	07-Mar-2025	-
pH	----	7.93	0.10	pH units	E108/EO	07-Mar-2025	07-Mar-2025	1899692
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	11-Mar-2025	-
Solids, total dissolved [TDS], calculated	----	77.9	1.0	mg/L	EC103/EO	-	07-Mar-2025	-
Anions and Nutrients								
Chloride	16887-00-6	13.5	0.50	mg/L	E235.Cl/EO	07-Mar-2025	07-Mar-2025	1899685
Fluoride	16984-48-8	0.035	0.020	mg/L	E235.F/EO	07-Mar-2025	07-Mar-2025	1899682
Nitrate (as N)	14797-55-8	0.076	0.020	mg/L	E235.NO ₃ /EO	07-Mar-2025	07-Mar-2025	1899683
Nitrate + Nitrite (as N)	----	0.0760	0.0224	mg/L	EC235.N+N/EO	-	08-Mar-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO ₂ /EO	07-Mar-2025	07-Mar-2025	1899684
Sulfate (as SO ₄)	14808-79-8	3.79	0.30	mg/L	E235.SO ₄ /EO	07-Mar-2025	07-Mar-2025	1899686
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	09-Mar-2025	1901639
Sulfide, total (as H ₂ S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	09-Mar-2025	1901639
Ion Balance								
Ion balance (cations/anions)	----	95.0	0.010	%	EC101/EO	-	07-Mar-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0236	0.0030	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Arsenic, total	7440-38-2	0.00011	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Barium, total	7440-39-3	0.0166	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Boron, total	7440-42-8	0.014	0.010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Calcium, total	7440-70-2	9.32	0.050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Cesium, total	7440-46-2	<0.000010	0.000010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Copper, total	7440-50-8	0.00060	0.00050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Iron, total	7439-89-6	<0.010	0.010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Lithium, total	7439-93-2	0.0030	0.0010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Magnesium, total	7439-95-4	2.69	0.0050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Manganese, total	7439-96-5	0.00518	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Molybdenum, total	7439-98-7	0.000198	0.000050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Potassium, total	7440-09-7	1.02	0.050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Rubidium, total	7440-17-7	0.00110	0.00020	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695



Analytical Results

FC2500522-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 06-Mar-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Silicon, total	7440-21-3	2.15	0.10	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Sodium, total	7440-23-5	16.3	0.050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Strontium, total	7440-24-6	0.0693	0.00020	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Sulfur, total	7704-34-9	1.49	0.50	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Titanium, total	7440-32-6	<0.00030	0.00030	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Uranium, total	7440-61-1	<0.000010	0.000010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0190	0.0010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Barium, dissolved	7440-39-3	0.0155	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Boron, dissolved	7440-42-8	0.012	0.010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Calcium, dissolved	7440-70-2	9.04	0.050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Copper, dissolved	7440-50-8	0.00053	0.00020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Lithium, dissolved	7439-93-2	0.0030	0.0010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Magnesium, dissolved	7439-95-4	2.72	0.0050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Manganese, dissolved	7439-96-5	0.00229	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Molybdenum, dissolved	7439-98-7	0.000187	0.000050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Potassium, dissolved	7440-09-7	0.937	0.050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Rubidium, dissolved	7440-17-7	0.00102	0.00020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Silicon, dissolved	7440-21-3	2.08	0.050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Sodium, dissolved	7440-23-5	14.3	0.050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Strontium, dissolved	7440-24-6	0.0636	0.00020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552



Analytical Results

FC2500522-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 06-Mar-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	1.22	0.50	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	07-Mar-2025	1899552
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	11-Mar-2025	13-Mar-2025	1904574
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	07-Mar-2025	09-Mar-2025	1900070
F1-BTEX	----	<100	100	µg/L	EC580/EO	-	10-Mar-2025	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	11-Mar-2025	11-Mar-2025	1903610
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	11-Mar-2025	11-Mar-2025	1903610
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	11-Mar-2025	11-Mar-2025	1903610
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	10-Mar-2025	-
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	102	1.0	%	E601/EO	11-Mar-2025	11-Mar-2025	1903610
Dichlorotoluene, 3,4-	95-75-0	103	1.0	%	E581.F1/EO	07-Mar-2025	09-Mar-2025	1900070
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	89.3	1.0	%	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Difluorobenzene, 1,4-	540-36-3	76.1	1.0	%	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611



Analytical Results

FC2500522-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 06-Mar-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.03	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.06	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
PAHs, total (CCME sewer 18)	n/a	<0.070	0.07	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	77.3	0.1	%	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Naphthalene-d8	1146-65-2	89.6	0.1	%	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Phenanthrene-d10	1517-22-2	89.7	0.1	%	E641A/EO	11-Mar-2025	11-Mar-2025	1903611

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

Analytical Results

FC2500522-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 06-Mar-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	37.2	1.2	mg/L	E290/EO	07-Mar-2025	07-Mar-2025	1899694
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	07-Mar-2025	07-Mar-2025	1899694
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	07-Mar-2025	07-Mar-2025	1899694
Alkalinity, total (as CaCO ₃)	----	30.5	1.0	mg/L	E290/EO	07-Mar-2025	07-Mar-2025	1899694
Conductivity	----	82.5	1.0	µS/cm	E100/EO	07-Mar-2025	07-Mar-2025	1899693
Hardness (as CaCO ₃), dissolved	----	32.0	0.50	mg/L	EC100/EO	-	07-Mar-2025	-
pH	----	7.25	0.10	pH units	E108/EO	07-Mar-2025	07-Mar-2025	1899692
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	11-Mar-2025	-
Solids, total dissolved [TDS], calculated	----	47.4	1.0	mg/L	EC103/EO	-	07-Mar-2025	-
Anions and Nutrients								
Chloride	16887-00-6	3.65	0.50	mg/L	E235.Cl/EO	07-Mar-2025	07-Mar-2025	1899685
Fluoride	16984-48-8	0.067	0.020	mg/L	E235.F/EO	07-Mar-2025	07-Mar-2025	1899682



Analytical Results

FC2500522-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap
Client sampling date / time: 06-Mar-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Nitrate (as N)	14797-55-8	0.071	0.020	mg/L	E235.NO3/EO	07-Mar-2025	07-Mar-2025	1899683
Nitrate + Nitrite (as N)	----	0.0710	0.0224	mg/L	EC235.N+N/EO	-	08-Mar-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	07-Mar-2025	07-Mar-2025	1899684
Sulfate (as SO4)	14808-79-8	3.96	0.30	mg/L	E235.SO4/EO	07-Mar-2025	07-Mar-2025	1899686
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	09-Mar-2025	1901639
Sulfide, total (as H2S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	09-Mar-2025	1901639
Ion Balance								
Ion balance (cations/anions)	----	100	0.010	%	EC101/EO	-	07-Mar-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0276	0.0030	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Arsenic, total	7440-38-2	0.00022	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Barium, total	7440-39-3	0.0162	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Boron, total	7440-42-8	0.013	0.010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Calcium, total	7440-70-2	8.68	0.050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Cesium, total	7440-46-2	<0.000010	0.000010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Chromium, total	7440-47-3	0.00053	0.00050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Copper, total	7440-50-8	0.00147	0.00050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Iron, total	7439-89-6	0.103	0.010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Lithium, total	7439-93-2	0.0027	0.0010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Magnesium, total	7439-95-4	2.64	0.0050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Manganese, total	7439-96-5	0.00721	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Molybdenum, total	7439-98-7	0.000219	0.000050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Nickel, total	7440-02-0	0.00055	0.00050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Potassium, total	7440-09-7	1.01	0.050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Rubidium, total	7440-17-7	0.00104	0.00020	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Silicon, total	7440-21-3	2.28	0.10	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Sodium, total	7440-23-5	3.37	0.050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Strontium, total	7440-24-6	0.0670	0.00020	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Sulfur, total	7704-34-9	1.52	0.50	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Titanium, total	7440-32-6	0.00062	0.00030	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695



Analytical Results

FC2500522-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 06-Mar-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Uranium, total	7440-61-1	0.000069	0.000010	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/CG	11-Mar-2025	11-Mar-2025	1902695
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0037	0.0010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Arsenic, dissolved	7440-38-2	0.00018	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Barium, dissolved	7440-39-3	0.0154	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Boron, dissolved	7440-42-8	0.012	0.010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Calcium, dissolved	7440-70-2	8.36	0.050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Copper, dissolved	7440-50-8	0.00132	0.00020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Iron, dissolved	7439-89-6	0.031	0.010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Lithium, dissolved	7439-93-2	0.0029	0.0010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Magnesium, dissolved	7439-95-4	2.70	0.0050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Manganese, dissolved	7439-96-5	0.00463	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Molybdenum, dissolved	7439-98-7	0.000191	0.000050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Potassium, dissolved	7440-09-7	0.946	0.050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Rubidium, dissolved	7440-17-7	0.00099	0.00020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Silicon, dissolved	7440-21-3	2.22	0.050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Sodium, dissolved	7440-23-5	3.09	0.050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Strontium, dissolved	7440-24-6	0.0612	0.00020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Sulfur, dissolved	7704-34-9	1.34	0.50	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Uranium, dissolved	7440-61-1	0.000066	0.000010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Zinc, dissolved	7440-66-6	0.0016	0.0010	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	07-Mar-2025	07-Mar-2025	1899552
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	07-Mar-2025	1899552



Analytical Results

FC2500522-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 06-Mar-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	11-Mar-2025	13-Mar-2025	1904574
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	07-Mar-2025	09-Mar-2025	1900070
F1-BTEX	----	<100	100	µg/L	EC580/EO	-	10-Mar-2025	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	11-Mar-2025	11-Mar-2025	1903610
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	11-Mar-2025	11-Mar-2025	1903610
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	11-Mar-2025	11-Mar-2025	1903610
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	10-Mar-2025	-
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	102	1.0	%	E601/EO	11-Mar-2025	11-Mar-2025	1903610
Dichlorotoluene, 3,4-	95-75-0	99.9	1.0	%	E581.F1/EO	07-Mar-2025	09-Mar-2025	1900070
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	86.9	1.0	%	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Difluorobenzene, 1,4-	540-36-3	75.6	1.0	%	E611A/EO	07-Mar-2025	09-Mar-2025	1900071
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611



Analytical Results

FC2500522-002

Sub-Matrix: **Water**

(Matrix: **Water**)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 06-Mar-2025 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.03	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.06	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
PAHs, total (CCME sewer 18)	n/a	<0.070	0.07	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	101	0.1	%	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Naphthalene-d8	1146-65-2	108	0.1	%	E641A/EO	11-Mar-2025	11-Mar-2025	1903611
Phenanthrene-d10	1517-22-2	117	0.1	%	E641A/EO	11-Mar-2025	11-Mar-2025	1903611

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



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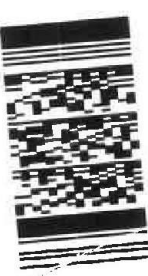
Chain of Custody (COC) / Analytical Request Form

Affix ALS barcode label here
(lab use only)

COC Number:

Page 1 of 1

Canada Toll Free: 1 800 668 9878

Report To		Report Format / Distribution		Select Service Level Below - Contact your AM to confirm all EAP TATs (surcharges may apply)											
Company:	Regional Municipality of Wood Buffalo (WTP)	Select Report Format:	☒ PDF ☒ EXCEL ☒ EDD (DIGITAL)	Regular [R] ☒ Standard TAT if received by 3 pm - business days - no surcharges apply											
Contact:	Water Treatment Plant	Quality Control (QC) Report with Report	☒ YES ☐ NO	4 day [P4-20%] ☐ 3 day [P3-25%] ☐ 2 day [P2-50%] ☐											
Phone:	780-762-5863	Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	1 Business day [E - 100%] ☐ Same Day, Weekend or Statutory holiday [E2 - 200%] (Laboratory opening fees may apply) ☐											
Street:	1 Silin Forest Road	Email 1 or Fax	Wtclab@rmwb.ca	Date and Time Required for all EAP TATs:											
City/Province:	Fort McMurray AB.	Email 2	compliance@rmwb.ca	For tests that can not be performed according to the service level selected, you will be contacted.											
Postal Code:	T9H 5A1	Email 3		Analysis Request											
Invoice To	Same as Report To	Invoice Distribution	☐ EMAIL ☐ MAIL ☐ FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below											
Copy of Invoice with Report	☒ YES ☐ NO	Select Invoice Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	F1-F4 Hydrocarbons											
Company:	RMWB	Email 1 or Fax	accounts.payable@rmwb.ca	Naphthenic Acid											
Contact:	Accounts Payable (9903 Franklin Ave Fort McMurray AB T9H 2K4)	Email 2	water.treatment@rmwb.ca	PAH											
Project Information		Oil and Gas Required Fields (client use)		BTEX/F1											
ALS Account # / Quote #:		AFE/Cost Center:	PO#	Total Metals											
Job #:	Fort Chipewyan Table 1	Major/Minor Code:	Routing Code:	Dissolved Metals											
PO / AFE:	450060925	Requisitioner:		Total Sulphate											
LSD:		Location:		Total Sulphide											
ALS Lab Work Order # (lab use only):		ALS Contact:	Sampler:	Routine Chemistry											
			Emtana	Physical Chemistry											
ALS Sample # (lab use only)		Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hhmm)	Sample Type										
	Treated Water		06-03-25	09:30	Water										
	Raw Water Chamber Tap		06-03-25	09:30	Water										
Environmental Division Fort McMurray Work Order Reference FC2500522 															
the drop-down list below															
<table><tr><td>Drinking Water (DW) Samples (client use)</td><td>Special Instructic</td></tr><tr><td>Are samples taken from a Regulated DW System?</td><td></td></tr><tr><td>☒ YES ☐ NO</td><td></td></tr><tr><td>Are samples for human consumption/ use?</td><td></td></tr><tr><td>☐ YES ☐ NO</td><td></td></tr></table>						Drinking Water (DW) Samples (client use)	Special Instructic	Are samples taken from a Regulated DW System?		☒ YES ☐ NO		Are samples for human consumption/ use?		☐ YES ☐ NO	
Drinking Water (DW) Samples (client use)	Special Instructic														
Are samples taken from a Regulated DW System?															
☒ YES ☐ NO															
Are samples for human consumption/ use?															
☐ YES ☐ NO															
Telephone : +1 780 791 1524															
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		NUMBER OF CONTAINERS											
Name:	Date:	Received by:	Date:	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below											
McClave		AP	6-MAR-25	F1-F4 Hydrocarbons											
				Naphthenic Acid											
				PAH											
				BTEX/F1											
				Total Metals											
				Dissolved Metals											
				Total Sulphate											
				Total Sulphide											
				Routine Chemistry											
				Physical Chemistry											
				Salinity											
				SUSPECTED HAZARD (see Special Instructions)											
SAMPLE CONDITION AS RECEIVED (lab use only)															
Frozen ☐ SIF Observations Yes ☐ No ☐															
Ice Packs ☒ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐															
Cooling Initiated ☒															
INITIAL COOLER TEMPERATURES °C															
3.5															
FINAL COOLER TEMPERATURES °C															
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		SAMPLE CONDITION AS RECEIVED (lab use only)											
Name:	Date:	Received by:	Date:	Frozen ☐ SIF Observations Yes ☐ No ☐											
McClave		AP	6-MAR-25	Ice Packs ☒ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐											
				Cooling Initiated ☒											
				INITIAL COOLER TEMPERATURES °C											
				3.5											
				FINAL COOLER TEMPERATURES °C											

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
WHITE - LABORATORY COPY YELLOW - CLIENT COPY
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.
1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.