



CERTIFICATE OF ANALYSIS

Work Order	: FC2601148	Laboratory	: ALS Environmental - Fort McMurray
Client	: Regional Municipality of Wood Buffalo	Account Manager	: Vishal Akolkar
Contact	: Water Treatment Plant	Address	: #4, 340 Macalpine Crescent
Address	: 1 Silin Forest Road Fort McMurray Alberta Canada T9H 5A1		: Fort McMurray AB Canada T9H 4A8
Telephone	: 780-762-5863	E-mail	: Vishal.Akolkar@alsglobal.com
Project	: Fort Chipewyan Table 1	Telephone	: +1 780 791 1524
PO	: 4500068005	Date Samples Received	: 01-Jun-2026 14:45
C-O-C number	: ----	Date Analysis Commenced	: 02-Jun-2026
Sampler	: HH	Issue Date	: 12-Jun-2026 15:08
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 1		
No. of samples analysed	: 1		

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
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Logan Carroll	Laboratory Analyst	Inorganics, Edmonton, Alberta
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Shirley Li	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Shruti Mudliar	Lab Analyst	Metals, Edmonton, Alberta
Shruti Mudliar	Lab Analyst	Inorganics, 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).

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

Qualifiers

<i>Qualifier</i>	<i>Description</i>
SFP	Sample was filtered and preserved at the laboratory.
SP	Sample was preserved at the laboratory.



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	ED-9150030-FORT CHIPEWYAN ED. Entering Distribution System	---	---	---	---
					Client sampling date / time	01-Jun-2026 09:00	---	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601148-001	---	---	---	---	
						Result	---	---	---	---
Sample Preparation										
Dissolved carbon filtration location	---	EP358/EO	-	-	lab	---	---	---	---	
Physical Tests										
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/EO	1.2	mg/L	87.0	---	---	---	---	
Alkalinity, carbonate (as CO3)	3812-32-6	E290/EO	1.0	mg/L	<0.6	---	---	---	---	
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	1.0	mg/L	<0.3	---	---	---	---	
Alkalinity, total (as CaCO3)	---	E290/EO	1.0	mg/L	71.3	---	---	---	---	
Conductivity	---	E100/EO	1.0	µS/cm	217	---	---	---	---	
Hardness (as CaCO3), dissolved	---	EC100/EO	0.50	mg/L	61.3	---	---	---	---	
pH	---	E108/EO	0.10	pH units	8.31	---	---	---	---	
Salinity	---	EC100S/VA	1.0	psu	<1.0	---	---	---	---	
Solids, total dissolved [TDS], calculated	---	EC103/EO	1.0	mg/L	129	---	---	---	---	
Anions and Nutrients										
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	21.0	---	---	---	---	
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	<0.020	---	---	---	---	
Nitrate (as N)	14797-55-8	E235.NO3/EO	0.020	mg/L	<0.020	---	---	---	---	
Nitrate + Nitrite (as N)	---	EC235.N+N/EO	0.0032	mg/L	<0.022	---	---	---	---	
Nitrite (as N)	14797-65-0	E235.NO2/EO	0.010	mg/L	<0.010	---	---	---	---	
Sulfate (as SO4)	14808-79-8	E235.SO4/EO	0.30	mg/L	9.64	---	---	---	---	



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601148-001	----	----	----	----	
						Result	----	----	----	----
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/EO	0.50	mg/L	4.78 ^{SFP}	----	----	----	----	
Carbon, total organic [TOC]	----	E355-L/EO	0.50	mg/L	4.75 ^{SP}	----	----	----	----	
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L	0.0024	----	----	----	----	
Sulfide, total (as H2S)	7783-06-4	E395/CG	0.0016	mg/L	0.0026	----	----	----	----	
Metals										
Sodium adsorption ratio [SAR]	----	EC102A/EO	0.10	-	1.28	----	----	----	----	
Ion Balance										
Ion balance (cations/anions)	----	EC101/EO	0.010	%	102	----	----	----	----	
Total Metals										
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.0453	----	----	----	----	
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00028	----	----	----	----	
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0304	----	----	----	----	
Beryllium, total	7440-41-7	E420/EO	0.020	µg/L	<0.020	----	----	----	----	
Bismuth, total	7440-69-9	E420/EO	0.050	µg/L	<0.050	----	----	----	----	
Boron, total	7440-42-8	E420/EO	0.010	mg/L	0.021	----	----	----	----	
Cadmium, total	7440-43-9	E420/EO	0.0050	µg/L	<0.0050	----	----	----	----	
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	17.6	----	----	----	----	
Cesium, total	7440-46-2	E420/EO	0.010	µg/L	<0.010	----	----	----	----	



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601148-001	----	----	----	----	
					Result	----	----	----	----	
Total Metals										
Chromium, total	7440-47-3	E420/EO	0.00050	mg/L	<0.00050	----	----	----	----	
Cobalt, total	7440-48-4	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Copper, total	7440-50-8	E420/EO	0.00050	mg/L	0.00093	----	----	----	----	
Iron, total	7439-89-6	E420/EO	0.010	mg/L	<0.010	----	----	----	----	
Lead, total	7439-92-1	E420/EO	0.050	µg/L	<0.050	----	----	----	----	
Lithium, total	7439-93-2	E420/EO	0.0010	mg/L	0.0043	----	----	----	----	
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L	4.44	----	----	----	----	
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L	0.00239	----	----	----	----	
Molybdenum, total	7439-98-7	E420/EO	0.050	µg/L	0.457	----	----	----	----	
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L	0.00080	----	----	----	----	
Phosphorus, total	7723-14-0	E420/EO	0.050	mg/L	<0.050	----	----	----	----	
Potassium, total	7440-09-7	E420/EO	0.050	mg/L	1.49	----	----	----	----	
Rubidium, total	7440-17-7	E420/EO	0.00020	mg/L	0.00118	----	----	----	----	
Selenium, total	7782-49-2	E420/EO	0.050	µg/L	<0.050	----	----	----	----	
Silicon, total	7440-21-3	E420/EO	0.10	mg/L	1.63	----	----	----	----	
Silver, total	7440-22-4	E420/EO	0.010	µg/L	<0.010	----	----	----	----	
Sodium, total	7440-23-5	E420/EO	0.050	mg/L	24.0	----	----	----	----	
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L	0.102	----	----	----	----	
Sulfur, total	7704-34-9	E420/EO	0.50	mg/L	3.83	----	----	----	----	



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601148-001	----	----	----	----	
					Result	----	----	----	----	
Total Metals										
Tellurium, total	13494-80-9	E420/EO	0.00020	mg/L	<0.00020	----	----	----	----	
Thallium, total	7440-28-0	E420/EO	0.010	µg/L	<0.010	----	----	----	----	
Thorium, total	7440-29-1	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Tin, total	7440-31-5	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Titanium, total	7440-32-6	E420/EO	0.00030	mg/L	<0.00030	----	----	----	----	
Tungsten, total	7440-33-7	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Uranium, total	7440-61-1	E420/EO	0.010	µg/L	<0.010	----	----	----	----	
Vanadium, total	7440-62-2	E420/EO	0.00050	mg/L	<0.00050	----	----	----	----	
Zinc, total	7440-66-6	E420/EO	0.0030	mg/L	<0.0030	----	----	----	----	
Zirconium, total	7440-67-7	E420/EO	0.00020	mg/L	<0.00020	----	----	----	----	
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L	0.0457	----	----	----	----	
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L	0.00027	----	----	----	----	
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0306	----	----	----	----	
Beryllium, dissolved	7440-41-7	E421/EO	0.020	µg/L	<0.020	----	----	----	----	
Bismuth, dissolved	7440-69-9	E421/EO	0.050	µg/L	<0.050	----	----	----	----	
Boron, dissolved	7440-42-8	E421/EO	0.010	mg/L	0.022	----	----	----	----	
Cadmium, dissolved	7440-43-9	E421/EO	0.0050	µg/L	<0.0050	----	----	----	----	



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					Client sampling date / time	01-Jun-2026 09:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601148-001	----	----	----	----	
					Result	----	----	----	----	
Dissolved Metals										
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	17.4	----	----	----	----	
Cesium, dissolved	7440-46-2	E421/EO	0.010	µg/L	<0.010	----	----	----	----	
Chromium, dissolved	7440-47-3	E421/EO	0.00050	mg/L	<0.00050	----	----	----	----	
Cobalt, dissolved	7440-48-4	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Copper, dissolved	7440-50-8	E421/EO	0.00020	mg/L	0.00088	----	----	----	----	
Iron, dissolved	7439-89-6	E421/EO	0.010	mg/L	<0.010	----	----	----	----	
Lead, dissolved	7439-92-1	E421/EO	0.050	µg/L	<0.050	----	----	----	----	
Lithium, dissolved	7439-93-2	E421/EO	0.0010	mg/L	0.0040	----	----	----	----	
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	4.33	----	----	----	----	
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.00259	----	----	----	----	
Molybdenum, dissolved	7439-98-7	E421/EO	0.050	µg/L	0.431	----	----	----	----	
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L	0.00080	----	----	----	----	
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L	<0.050	----	----	----	----	
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	1.51	----	----	----	----	
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00110	----	----	----	----	
Selenium, dissolved	7782-49-2	E421/EO	0.050	µg/L	<0.050	----	----	----	----	
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	1.68	----	----	----	----	
Silver, dissolved	7440-22-4	E421/EO	0.010	µg/L	<0.010	----	----	----	----	
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	23.1	----	----	----	----	



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 (Matrix: Water)

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					Client sampling date / time	01-Jun-2026 09:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601148-001	----	----	----	----	
					Result	----	----	----	----	
Dissolved Metals										
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.0981	----	----	----	----	
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	3.87	----	----	----	----	
Tellurium, dissolved	13494-80-9	E421/EO	0.00020	mg/L	<0.00020	----	----	----	----	
Thallium, dissolved	7440-28-0	E421/EO	0.010	µg/L	<0.010	----	----	----	----	
Thorium, dissolved	7440-29-1	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Tin, dissolved	7440-31-5	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Titanium, dissolved	7440-32-6	E421/EO	0.00030	mg/L	<0.00030	----	----	----	----	
Tungsten, dissolved	7440-33-7	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Uranium, dissolved	7440-61-1	E421/EO	0.010	µg/L	<0.010	----	----	----	----	
Vanadium, dissolved	7440-62-2	E421/EO	0.00050	mg/L	<0.00050	----	----	----	----	
Zinc, dissolved	7440-66-6	E421/EO	0.0010	mg/L	<0.0010	----	----	----	----	
Zirconium, dissolved	7440-67-7	E421/EO	0.00020	mg/L	<0.00020	----	----	----	----	
Dissolved metals filtration location	----	EP421/EO	-	-	Field	----	----	----	----	
Aggregate Organics										
Naphthenic acids	----	E565/EO	1.0	mg/L	<1.0	----	----	----	----	
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
Ethylbenzene	100-41-4	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601148-001	----	----	----	----	
						Result	----	----	----	----
Volatile Organic Compounds [Fuels]										
Styrene	100-42-5	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
Toluene	108-88-3	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
Xylene, m+p-	179601-23-1	E611A/EO	0.40	µg/L	<0.40	----	----	----	----	
Xylene, o-	95-47-6	E611A/EO	0.30	µg/L	<0.30	----	----	----	----	
Xylenes, total	1330-20-7	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
BTEX, total	----	E611A/EO	1.0	µg/L	<1.0	----	----	----	----	
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/EO	100	µg/L	<100	----	----	----	----	
F1-BTEX	----	EC580/EO	25	µg/L	<26	----	----	----	----	
F2 (C10-C16)	----	E601/EO	100	µg/L	<100	----	----	----	----	
F3 (C16-C34)	----	E601/EO	250	µg/L	<250	----	----	----	----	
F4 (C34-C50)	----	E601/EO	250	µg/L	<250	----	----	----	----	
Hydrocarbons, total (C6-C50)	n/a	EC581/EO	370	µg/L	<380	----	----	----	----	
TEH (C10-C50)	n/a	E601/EO	400	µg/L	<400	----	----	----	----	
TEH (C16-C50)	----	E601/EO	400	µg/L	<400	----	----	----	----	
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	1.0	%	102	----	----	----	----	
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%	88.9	----	----	----	----	



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						Result	----	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%	83.9	----	----	----	----	
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%	99.8	----	----	----	----	
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Acenaphthylene	208-96-8	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Acridine	260-94-6	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Anthracene	120-12-7	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Benz(a)anthracene	56-55-3	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Benzo(a)pyrene	50-32-8	E641A/EO	0.0050	µg/L	<0.0050	----	----	----	----	
Benzo(b+j)fluoranthene	n/a	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Benzo(b+j+k)fluoranthene	n/a	E641A/EO	0.015	µg/L	<0.015	----	----	----	----	
Benzo(e)pyrene	192-97-2	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Benzo(g,h,i)perylene	191-24-2	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Benzo(k)fluoranthene	207-08-9	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Chrysene	218-01-9	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Dibenz(a,h)anthracene	53-70-3	E641A/EO	0.0050	µg/L	<0.0050	----	----	----	----	
Fluoranthene	206-44-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Fluorene	86-73-7	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Indeno(1,2,3-cd)pyrene	193-39-5	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	



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 (Matrix: Water)

					ED-9150030-FORT CHIPEWYAN ED. Entering Distribution System	----	----	----	----	
					Client sample ID					
					Client sampling date / time	01-Jun-2026 09:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601148-001	----	----	----	----	
					Result	----	----	----	----	
Polycyclic Aromatic Hydrocarbons										
Methylnaphthalene, 1-	90-12-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Methylnaphthalene, 1+2-	----	E641A/EO	0.015	µg/L	<0.015	----	----	----	----	
Methylnaphthalene, 2-	91-57-6	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Naphthalene	91-20-3	E641A/EO	0.050	µg/L	<0.050	----	----	----	----	
Perylene	198-55-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Phenanthrene	85-01-8	E641A/EO	0.020	µg/L	<0.020	----	----	----	----	
Pyrene	129-00-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Quinoline	91-22-5	E641A/EO	0.050	µg/L	<0.050	----	----	----	----	
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
PAHs, high molecular weight (BC AWQ)	n/a	E641A/EO	0.030	µg/L	<0.030	----	----	----	----	
PAHs, low molecular weight (BC AWQ)	n/a	E641A/EO	0.060	µg/L	<0.060	----	----	----	----	
PAHs, total (CCME sewer 18)	n/a	E641A/EO	0.070	µg/L	<0.070	----	----	----	----	
PAHs, total (EPA 16)	n/a	E641A/EO	0.065	µg/L	<0.065	----	----	----	----	
PAHs, total (P2MMP)	n/a	E641A/EO	0.040	µg/L	<0.040	----	----	----	----	
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/EO	0.1	%	93.1	----	----	----	----	
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	93.9	----	----	----	----	
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	94.0	----	----	----	----	



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID					
					ED-9150030-FORT CHIPEWYAN ED. Entering Distribution System	----	----	----	----	
					Client sampling date / time	01-Jun-2026 09:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601148-001	----	----	----	----	
					Result	----	----	----	----	
Disinfectant By-Products										
Chlorate	14866-68-3	E409.CLO3/WT	0.010	mg/L	0.054	----	----	----	----	

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



CERTIFICATE OF ANALYSIS

Work Order	: FC2601148	Page	: 1 of 6
Client	: Regional Municipality of Wood Buffalo	Laboratory	: ALS Environmental - Fort McMurray
Contact	: Water Treatment Plant	Account Manager	: Vishal Akolkar
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	: 01-Jun-2026 14:45
PO	: 4500068005	Date Analysis	: 02-Jun-2026
C-O-C number	: ----	Commenced	
Sampler	: HH	Issue Date	: 12-Jun-2026 15:07
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 1		
No. of samples analysed	: 1		

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
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Logan Carroll	Laboratory Analyst	Inorganics, Edmonton, Alberta
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Shirley Li	Team Leader - Inorganics	Inorganics, Calgary, Alberta
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.

Qualifiers

<i>Qualifier</i>	<i>Description</i>
SFP	Sample was filtered and preserved at the laboratory.
SP	Sample was preserved at the laboratory.



Analytical Results

FC2601148-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: ED-9150030-FORT CHIPEWYAN - ED. Entering Distribution System

Client sampling date / time: 01-Jun-2026 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Sample Preparation								
Dissolved carbon filtration location	----	lab	-	-	EP358/EO	-	06-Jun-2026	2635582
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	87.0	1.2	mg/L	E290/EO	02-Jun-2026	02-Jun-2026	2626185
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	02-Jun-2026	02-Jun-2026	2626185
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	02-Jun-2026	02-Jun-2026	2626185
Alkalinity, total (as CaCO ₃)	----	71.3	1.0	mg/L	E290/EO	02-Jun-2026	02-Jun-2026	2626185
Conductivity	----	217	1.0	µS/cm	E100/EO	02-Jun-2026	02-Jun-2026	2626184
Hardness (as CaCO ₃), dissolved	----	61.3	0.50	mg/L	EC100/EO	-	06-Jun-2026	-
pH	----	8.31	0.10	pH units	E108/EO	02-Jun-2026	02-Jun-2026	2626183
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	05-Jun-2026	-
Solids, total dissolved [TDS], calculated	----	129	1.0	mg/L	EC103/EO	-	03-Jun-2026	-
Anions and Nutrients								
Chloride	16887-00-6	21.0	0.50	mg/L	E235.Cl/EO	02-Jun-2026	03-Jun-2026	2625992
Fluoride	16984-48-8	<0.020	0.020	mg/L	E235.F/EO	02-Jun-2026	03-Jun-2026	2625989
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	02-Jun-2026	03-Jun-2026	2625993
Nitrate + Nitrite (as N)	----	<0.022	0.022	mg/L	EC235.N+N/EO	-	03-Jun-2026	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	02-Jun-2026	03-Jun-2026	2625990
Sulfate (as SO ₄)	14808-79-8	9.64	0.30	mg/L	E235.SO4/EO	02-Jun-2026	03-Jun-2026	2625991
Organic / Inorganic Carbon								
Carbon, dissolved organic [DOC]	----	4.78 ^{SFP}	0.50	mg/L	E358-L/EO	06-Jun-2026	06-Jun-2026	2635582
Carbon, total organic [TOC]	----	4.75 ^{SP}	0.50	mg/L	E355-L/EO	05-Jun-2026	05-Jun-2026	2633703
Total Sulfides								
Sulfide, total (as S)	18496-25-8	0.0024	0.0015	mg/L	E395/CG	-	04-Jun-2026	2630417
Sulfide, total (as H ₂ S)	7783-06-4	0.0026	0.0016	mg/L	E395/CG	-	04-Jun-2026	2630417
Metals								
Sodium adsorption ratio [SAR]	----	1.28	0.10	-	EC102A/EO	-	06-Jun-2026	-
Ion Balance								
Ion balance (cations/anions)	----	102	0.010	%	EC101/EO	-	03-Jun-2026	-
Total Metals								
Aluminum, total	7429-90-5	0.0453	0.0030	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Arsenic, total	7440-38-2	0.00028	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Barium, total	7440-39-3	0.0304	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Beryllium, total	7440-41-7	<0.020	0.020	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Bismuth, total	7440-69-9	<0.050	0.050	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Boron, total	7440-42-8	0.021	0.010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Cadmium, total	7440-43-9	<0.0050	0.0050	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Calcium, total	7440-70-2	17.6	0.050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Cesium, total	7440-46-2	<0.010	0.010	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Copper, total	7440-50-8	0.00093	0.00050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Iron, total	7439-89-6	<0.010	0.010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Lead, total	7439-92-1	<0.050	0.050	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Lithium, total	7439-93-2	0.0043	0.0010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244



Analytical Results

FC2601148-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: ED-9150030-FORT CHIPEWYAN - ED. Entering Distribution System

Client sampling date / time: 01-Jun-2026 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLOT
Total Metals								
Magnesium, total	7439-95-4	4.44	0.0050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Manganese, total	7439-96-5	0.00239	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Molybdenum, total	7439-98-7	0.457	0.050	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Nickel, total	7440-02-0	0.00080	0.00050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Potassium, total	7440-09-7	1.49	0.050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Rubidium, total	7440-17-7	0.00118	0.00020	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Selenium, total	7782-49-2	<0.050	0.050	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Silicon, total	7440-21-3	1.63	0.10	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Silver, total	7440-22-4	<0.010	0.010	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Sodium, total	7440-23-5	24.0	0.050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Strontium, total	7440-24-6	0.102	0.00020	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Sulfur, total	7704-34-9	3.83	0.50	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Thallium, total	7440-28-0	<0.010	0.010	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Titanium, total	7440-32-6	<0.00030	0.00030	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Uranium, total	7440-61-1	<0.010	0.010	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0457	0.0010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Arsenic, dissolved	7440-38-2	0.00027	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Barium, dissolved	7440-39-3	0.0306	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Bismuth, dissolved	7440-69-9	<0.050	0.050	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Boron, dissolved	7440-42-8	0.022	0.010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Cadmium, dissolved	7440-43-9	<0.0050	0.0050	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Calcium, dissolved	7440-70-2	17.4	0.050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Cesium, dissolved	7440-46-2	<0.010	0.010	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Copper, dissolved	7440-50-8	0.00088	0.00020	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Lead, dissolved	7439-92-1	<0.050	0.050	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Lithium, dissolved	7439-93-2	0.0040	0.0010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Magnesium, dissolved	7439-95-4	4.33	0.0050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Manganese, dissolved	7439-96-5	0.00259	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Molybdenum, dissolved	7439-98-7	0.431	0.050	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Nickel, dissolved	7440-02-0	0.00080	0.00050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951



Analytical Results

FC2601148-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: ED-9150030-FORT CHIPEWYAN - ED. Entering Distribution System

Client sampling date / time: 01-Jun-2026 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	1.51	0.050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Rubidium, dissolved	7440-17-7	0.00110	0.00020	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Selenium, dissolved	7782-49-2	<0.050	0.050	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Silicon, dissolved	7440-21-3	1.68	0.050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Sodium, dissolved	7440-23-5	23.1	0.050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Strontium, dissolved	7440-24-6	0.0981	0.00020	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Sulfur, dissolved	7704-34-9	3.87	0.50	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Thallium, dissolved	7440-28-0	<0.010	0.010	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Uranium, dissolved	7440-61-1	<0.010	0.010	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	05-Jun-2026	2632951
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	09-Jun-2026	12-Jun-2026	2639437
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	04-Jun-2026	05-Jun-2026	2630978
F1-BTEX	----	<26	26	µg/L	EC580/EO	-	06-Jun-2026	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	03-Jun-2026	03-Jun-2026	2627853
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	03-Jun-2026	03-Jun-2026	2627853
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	03-Jun-2026	03-Jun-2026	2627853
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	06-Jun-2026	-
TEH (C10-C50)	n/a	<400	400	µg/L	E601/EO	03-Jun-2026	03-Jun-2026	2627853
TEH (C16-C50)	----	<400	400	µg/L	E601/EO	03-Jun-2026	03-Jun-2026	2627853
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	102	1.0	%	E601/EO	03-Jun-2026	03-Jun-2026	2627853
Dichlorotoluene, 3,4-	95-75-0	88.9	1.0	%	E581.F1/EO	04-Jun-2026	05-Jun-2026	2630978
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	83.9	1.0	%	E611A/EO	04-Jun-2026	05-Jun-2026	2630979



Analytical Results

FC2601148-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: ED-9150030-FORT CHIPEWYAN - ED. Entering Distribution System

Client sampling date / time: 01-Jun-2026 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds Surrogates								
Difluorobenzene, 1,4-	540-36-3	99.8	1.0	%	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Indeno(1,2,3-cd)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.030	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.060	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
PAHs, total (CCME sewer 18)	n/a	<0.070	0.070	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
PAHs, total (P2MMP)	n/a	<0.040	0.040	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	93.1	0.1	%	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Naphthalene-d8	1146-65-2	93.9	0.1	%	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Phenanthrene-d10	1517-22-2	94.0	0.1	%	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Disinfectant By-Products								
Chlorate	14866-68-3	0.054	0.010	mg/L	E409.CLO3/WT	03-Jun-2026	03-Jun-2026	2629148

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

CERTIFICATE OF ANALYSIS

Work Order	: FC2601149	Laboratory	: ALS Environmental - Fort McMurray
Client	: Regional Municipality of Wood Buffalo	Account Manager	: Vishal Akolkar
Contact	: Water Treatment Plant	Address	: #4, 340 Macalpine Crescent
Address	: 1 Silin Forest Road Fort McMurray Alberta Canada T9H 5A1		: Fort McMurray AB Canada T9H 4A8
Telephone	: 780-762-5863	E-mail	: Vishal.Akolkar@alsglobal.com
Project	: Fort Chipewyan Table 1	Telephone	: +1 780 791 1524
PO	: 4500068005	Date Samples Received	: 01-Jun-2026 14:45
C-O-C number	: ----	Date Analysis Commenced	: 02-Jun-2026
Sampler	: HH	Issue Date	: 12-Jun-2026 15:07
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 1		
No. of samples analysed	: 1		

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
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Logan Carroll	Laboratory Analyst	Inorganics, Edmonton, Alberta
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Shirley Li	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Shruti Mudliar	Lab Analyst	Metals, Edmonton, Alberta
Shruti Mudliar	Lab Analyst	Inorganics, 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).

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

Qualifiers

<i>Qualifier</i>	<i>Description</i>
SFP	Sample was filtered and preserved at the laboratory.
SP	Sample was preserved at the laboratory.



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Raw Water Chamber Tap	----	----	----	----
					Client sampling date / time	01-Jun-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601149-001	----	----	----	----	----
						Result	----	----	----	----
Sample Preparation										
Dissolved carbon filtration location	----	EP358/EO	-	-	lab	----	----	----	----	----
Physical Tests										
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/EO	1.2	mg/L	60.0	----	----	----	----	----
Alkalinity, carbonate (as CO3)	3812-32-6	E290/EO	1.0	mg/L	<0.6	----	----	----	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	1.0	mg/L	<0.3	----	----	----	----	----
Alkalinity, total (as CaCO3)	----	E290/EO	1.0	mg/L	49.2	----	----	----	----	----
Conductivity	----	E100/EO	1.0	µS/cm	127	----	----	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/EO	0.50	mg/L	54.5	----	----	----	----	----
pH	----	E108/EO	0.10	pH units	7.88	----	----	----	----	----
Salinity	----	EC100S/VA	1.0	psu	<1.0	----	----	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	80.9	----	----	----	----	----
Anions and Nutrients										
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	4.28	----	----	----	----	----
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	0.051	----	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/EO	0.020	mg/L	<0.020	----	----	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/EO	0.0032	mg/L	<0.022	----	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/EO	0.010	mg/L	<0.010	----	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/EO	0.30	mg/L	8.13	----	----	----	----	----
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/EO	0.50	mg/L	8.10 ^{SFP}	----	----	----	----	----
Carbon, total organic [TOC]	----	E355-L/EO	0.50	mg/L	7.91 ^{SP}	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Raw Water Chamber Tap	----	----	----	----
					Client sampling date / time	01-Jun-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601149-001	----	----	----	----	
						Result	----	----	----	----
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L	0.0053	----	----	----	----	
Sulfide, total (as H2S)	7783-06-4	E395/CG	0.0016	mg/L	0.0056	----	----	----	----	
Metals										
Sodium adsorption ratio [SAR]	----	EC102A/EO	0.10	-	0.34	----	----	----	----	
Ion Balance										
Ion balance (cations/anions)	----	EC101/EO	0.010	%	108	----	----	----	----	
Total Metals										
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.278	----	----	----	----	
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00062	----	----	----	----	
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0320	----	----	----	----	
Beryllium, total	7440-41-7	E420/EO	0.020	µg/L	<0.020	----	----	----	----	
Bismuth, total	7440-69-9	E420/EO	0.050	µg/L	<0.050	----	----	----	----	
Boron, total	7440-42-8	E420/EO	0.010	mg/L	0.020	----	----	----	----	
Cadmium, total	7440-43-9	E420/EO	0.0050	µg/L	0.0084	----	----	----	----	
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	15.4	----	----	----	----	
Cesium, total	7440-46-2	E420/EO	0.010	µg/L	0.048	----	----	----	----	
Chromium, total	7440-47-3	E420/EO	0.00050	mg/L	<0.00050	----	----	----	----	
Cobalt, total	7440-48-4	E420/EO	0.00010	mg/L	0.00013	----	----	----	----	
Copper, total	7440-50-8	E420/EO	0.00050	mg/L	0.00200	----	----	----	----	
Iron, total	7439-89-6	E420/EO	0.010	mg/L	0.547	----	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Raw Water Chamber Tap	----	----	----	----
					Client sampling date / time	01-Jun-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601149-001	----	----	----	----	----
						Result	----	----	----	----
Total Metals										
Lead, total	7439-92-1	E420/EO	0.050	µg/L	0.333	----	----	----	----	----
Lithium, total	7439-93-2	E420/EO	0.0010	mg/L	0.0042	----	----	----	----	----
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L	4.05	----	----	----	----	----
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L	0.0136	----	----	----	----	----
Molybdenum, total	7439-98-7	E420/EO	0.050	µg/L	0.400	----	----	----	----	----
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L	0.00155	----	----	----	----	----
Phosphorus, total	7723-14-0	E420/EO	0.050	mg/L	<0.050	----	----	----	----	----
Potassium, total	7440-09-7	E420/EO	0.050	mg/L	1.40	----	----	----	----	----
Rubidium, total	7440-17-7	E420/EO	0.00020	mg/L	0.00154	----	----	----	----	----
Selenium, total	7782-49-2	E420/EO	0.050	µg/L	0.078	----	----	----	----	----
Silicon, total	7440-21-3	E420/EO	0.10	mg/L	2.33	----	----	----	----	----
Silver, total	7440-22-4	E420/EO	0.010	µg/L	<0.010	----	----	----	----	----
Sodium, total	7440-23-5	E420/EO	0.050	mg/L	5.74	----	----	----	----	----
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L	0.0936	----	----	----	----	----
Sulfur, total	7704-34-9	E420/EO	0.50	mg/L	3.49	----	----	----	----	----
Tellurium, total	13494-80-9	E420/EO	0.00020	mg/L	<0.00020	----	----	----	----	----
Thallium, total	7440-28-0	E420/EO	0.010	µg/L	<0.010	----	----	----	----	----
Thorium, total	7440-29-1	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----	----
Tin, total	7440-31-5	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----	----
Titanium, total	7440-32-6	E420/EO	0.00030	mg/L	0.0121	----	----	----	----	----
Tungsten, total	7440-33-7	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Raw Water Chamber Tap	----	----	----	----
					Client sampling date / time	01-Jun-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601149-001	----	----	----	----	
						Result	----	----	----	----
Total Metals										
Uranium, total	7440-61-1	E420/EO	0.010	µg/L	0.177	----	----	----	----	
Vanadium, total	7440-62-2	E420/EO	0.00050	mg/L	0.00107	----	----	----	----	
Zinc, total	7440-66-6	E420/EO	0.0030	mg/L	<0.0030	----	----	----	----	
Zirconium, total	7440-67-7	E420/EO	0.00020	mg/L	0.00060	----	----	----	----	
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L	0.0050	----	----	----	----	
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L	0.00038	----	----	----	----	
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0289	----	----	----	----	
Beryllium, dissolved	7440-41-7	E421/EO	0.020	µg/L	<0.020	----	----	----	----	
Bismuth, dissolved	7440-69-9	E421/EO	0.050	µg/L	<0.050	----	----	----	----	
Boron, dissolved	7440-42-8	E421/EO	0.010	mg/L	0.019	----	----	----	----	
Cadmium, dissolved	7440-43-9	E421/EO	0.0050	µg/L	<0.0050	----	----	----	----	
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	15.1	----	----	----	----	
Cesium, dissolved	7440-46-2	E421/EO	0.010	µg/L	<0.010	----	----	----	----	
Chromium, dissolved	7440-47-3	E421/EO	0.00050	mg/L	<0.00050	----	----	----	----	
Cobalt, dissolved	7440-48-4	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	
Copper, dissolved	7440-50-8	E421/EO	0.00020	mg/L	0.00183	----	----	----	----	
Iron, dissolved	7439-89-6	E421/EO	0.010	mg/L	0.089	----	----	----	----	
Lead, dissolved	7439-92-1	E421/EO	0.050	µg/L	0.063	----	----	----	----	
Lithium, dissolved	7439-93-2	E421/EO	0.0010	mg/L	0.0037	----	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Raw Water Chamber Tap	----	----	----	----
					Client sampling date / time	01-Jun-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601149-001	----	----	----	----	----
						Result	----	----	----	----
Dissolved Metals										
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	4.07	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.00055	----	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	0.050	µg/L	0.365	----	----	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L	0.00089	----	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L	<0.050	----	----	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	1.37	----	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00109	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	0.050	µg/L	0.079	----	----	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	1.66	----	----	----	----	----
Silver, dissolved	7440-22-4	E421/EO	0.010	µg/L	<0.010	----	----	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	5.71	----	----	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.0912	----	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	3.36	----	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/EO	0.00020	mg/L	<0.00020	----	----	----	----	----
Thallium, dissolved	7440-28-0	E421/EO	0.010	µg/L	<0.010	----	----	----	----	----
Thorium, dissolved	7440-29-1	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	----
Tin, dissolved	7440-31-5	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	----
Titanium, dissolved	7440-32-6	E421/EO	0.00030	mg/L	0.00076	----	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	----
Uranium, dissolved	7440-61-1	E421/EO	0.010	µg/L	0.140	----	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/EO	0.00050	mg/L	<0.00050	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Raw Water Chamber Tap	----	----	----	----
					Client sampling date / time	01-Jun-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601149-001	----	----	----	----	
						Result	----	----	----	----
Dissolved Metals										
Zinc, dissolved	7440-66-6	E421/EO	0.0010	mg/L	<0.0010	----	----	----	----	
Zirconium, dissolved	7440-67-7	E421/EO	0.00020	mg/L	<0.00020	----	----	----	----	
Dissolved metals filtration location	----	EP421/EO	-	-	Laboratory	----	----	----	----	
Aggregate Organics										
Naphthenic acids	----	E565/EO	1.0	mg/L	<1.0	----	----	----	----	
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
Ethylbenzene	100-41-4	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
Styrene	100-42-5	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
Toluene	108-88-3	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
Xylene, m+p-	179601-23-1	E611A/EO	0.40	µg/L	<0.40	----	----	----	----	
Xylene, o-	95-47-6	E611A/EO	0.30	µg/L	<0.30	----	----	----	----	
Xylenes, total	1330-20-7	E611A/EO	0.50	µg/L	<0.50	----	----	----	----	
BTEX, total	----	E611A/EO	1.0	µg/L	<1.0	----	----	----	----	
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/EO	100	µg/L	<100	----	----	----	----	
F1-BTEX	----	EC580/EO	25	µg/L	<26	----	----	----	----	
F2 (C10-C16)	----	E601/EO	100	µg/L	<100	----	----	----	----	
F3 (C16-C34)	----	E601/EO	250	µg/L	<250	----	----	----	----	
F4 (C34-C50)	----	E601/EO	250	µg/L	<250	----	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Raw Water Chamber Tap	----	----	----	----
					Client sampling date / time	01-Jun-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601149-001	----	----	----	----	
						Result	----	----	----	----
Hydrocarbons										
Hydrocarbons, total (C6-C50)	n/a	EC581/EO	370	µg/L	<380	----	----	----	----	
TEH (C10-C50)	n/a	E601/EO	400	µg/L	<400	----	----	----	----	
TEH (C16-C50)	----	E601/EO	400	µg/L	<400	----	----	----	----	
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	1.0	%	99.7	----	----	----	----	
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%	83.3	----	----	----	----	
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%	83.7	----	----	----	----	
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%	105	----	----	----	----	
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Acenaphthylene	208-96-8	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Acridine	260-94-6	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Anthracene	120-12-7	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Benz(a)anthracene	56-55-3	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Benzo(a)pyrene	50-32-8	E641A/EO	0.0050	µg/L	<0.0050	----	----	----	----	
Benzo(b+j)fluoranthene	n/a	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Benzo(b+j+k)fluoranthene	n/a	E641A/EO	0.015	µg/L	<0.015	----	----	----	----	
Benzo(e)pyrene	192-97-2	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Benzo(g,h,i)perylene	191-24-2	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	
Benzo(k)fluoranthene	207-08-9	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Raw Water Chamber Tap	----	----	----	----
					Client sampling date / time	01-Jun-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601149-001	----	----	----	----	----
						Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons										
Chrysene	218-01-9	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/EO	0.0050	µg/L	<0.0050	----	----	----	----	----
Fluoranthene	206-44-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	----
Fluorene	86-73-7	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	----
Methylnaphthalene, 1+2-	----	E641A/EO	0.015	µg/L	<0.015	----	----	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	----
Naphthalene	91-20-3	E641A/EO	0.050	µg/L	<0.050	----	----	----	----	----
Perylene	198-55-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	----
Phenanthrene	85-01-8	E641A/EO	0.020	µg/L	<0.020	----	----	----	----	----
Pyrene	129-00-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	----
Quinoline	91-22-5	E641A/EO	0.050	µg/L	<0.050	----	----	----	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/EO	0.010	µg/L	<0.010	----	----	----	----	----
PAHs, high molecular weight (BC AWQ)	n/a	E641A/EO	0.030	µg/L	<0.030	----	----	----	----	----
PAHs, low molecular weight (BC AWQ)	n/a	E641A/EO	0.060	µg/L	<0.060	----	----	----	----	----
PAHs, total (CCME sewer 18)	n/a	E641A/EO	0.070	µg/L	<0.070	----	----	----	----	----
PAHs, total (EPA 16)	n/a	E641A/EO	0.065	µg/L	<0.065	----	----	----	----	----
PAHs, total (P2MMP)	n/a	E641A/EO	0.040	µg/L	<0.040	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/EO	0.1	%	84.5	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	Raw Water Chamber Tap	----	----	----	----
					Client sampling date / time	01-Jun-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601149-001	----	----	----	----	
						Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	89.2	----	----	----	----	
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	87.4	----	----	----	----	
Disinfectant By-Products										
Chlorate	14866-68-3	E409.CLO3/WT	0.010	mg/L	<0.010	----	----	----	----	

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



CERTIFICATE OF ANALYSIS

Work Order	: FC2601149	Page	: 1 of 6
Client	: Regional Municipality of Wood Buffalo	Laboratory	: ALS Environmental - Fort McMurray
Contact	: Water Treatment Plant	Account Manager	: Vishal Akolkar
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	: 01-Jun-2026 14:45
PO	: 4500068005	Date Analysis	: 02-Jun-2026
C-O-C number	: ----	Commenced	
Sampler	: HH	Issue Date	: 12-Jun-2026 15:08
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 1		
No. of samples analysed	: 1		

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
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Logan Carroll	Laboratory Analyst	Inorganics, Edmonton, Alberta
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Shirley Li	Team Leader - Inorganics	Inorganics, Calgary, Alberta
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.

Qualifiers

<i>Qualifier</i>	<i>Description</i>
SFP	Sample was filtered and preserved at the laboratory.
SP	Sample was preserved at the laboratory.



Analytical Results

FC2601149-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 01-Jun-2026 07:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Sample Preparation								
Dissolved carbon filtration location	----	lab	-	-	EP358/EO	-	06-Jun-2026	2635582
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	60.0	1.2	mg/L	E290/EO	02-Jun-2026	02-Jun-2026	2626185
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	02-Jun-2026	02-Jun-2026	2626185
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	02-Jun-2026	02-Jun-2026	2626185
Alkalinity, total (as CaCO ₃)	----	49.2	1.0	mg/L	E290/EO	02-Jun-2026	02-Jun-2026	2626185
Conductivity	----	127	1.0	µS/cm	E100/EO	02-Jun-2026	02-Jun-2026	2626184
Hardness (as CaCO ₃), dissolved	----	54.5	0.50	mg/L	EC100/EO	-	06-Jun-2026	-
pH	----	7.88	0.10	pH units	E108/EO	02-Jun-2026	02-Jun-2026	2626183
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	05-Jun-2026	-
Solids, total dissolved [TDS], calculated	----	80.9	1.0	mg/L	EC103/EO	-	03-Jun-2026	-
Anions and Nutrients								
Chloride	16887-00-6	4.28	0.50	mg/L	E235.Cl/EO	02-Jun-2026	03-Jun-2026	2626017
Fluoride	16984-48-8	0.051	0.020	mg/L	E235.F/EO	02-Jun-2026	03-Jun-2026	2626014
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	02-Jun-2026	03-Jun-2026	2626015
Nitrate + Nitrite (as N)	----	<0.022	0.022	mg/L	EC235.N+N/EO	-	03-Jun-2026	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	02-Jun-2026	03-Jun-2026	2626016
Sulfate (as SO ₄)	14808-79-8	8.13	0.30	mg/L	E235.SO4/EO	02-Jun-2026	03-Jun-2026	2626018
Organic / Inorganic Carbon								
Carbon, dissolved organic [DOC]	----	8.10	^{SFP.} 0.50	mg/L	E358-L/EO	06-Jun-2026	06-Jun-2026	2635582
Carbon, total organic [TOC]	----	7.91	^{SP.} 0.50	mg/L	E355-L/EO	05-Jun-2026	05-Jun-2026	2633703
Total Sulfides								
Sulfide, total (as S)	18496-25-8	0.0053	0.0015	mg/L	E395/CG	-	04-Jun-2026	2630417
Sulfide, total (as H ₂ S)	7783-06-4	0.0056	0.0016	mg/L	E395/CG	-	04-Jun-2026	2630417
Metals								
Sodium adsorption ratio [SAR]	----	0.34	0.10	-	EC102A/EO	-	06-Jun-2026	-
Ion Balance								
Ion balance (cations/anions)	----	108	0.010	%	EC101/EO	-	03-Jun-2026	-
Total Metals								
Aluminum, total	7429-90-5	0.278	0.0030	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Arsenic, total	7440-38-2	0.00062	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Barium, total	7440-39-3	0.0320	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Beryllium, total	7440-41-7	<0.020	0.020	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Bismuth, total	7440-69-9	<0.050	0.050	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Boron, total	7440-42-8	0.020	0.010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Cadmium, total	7440-43-9	0.0084	0.0050	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Calcium, total	7440-70-2	15.4	0.050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Cesium, total	7440-46-2	0.048	0.010	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Cobalt, total	7440-48-4	0.00013	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Copper, total	7440-50-8	0.00200	0.00050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Iron, total	7439-89-6	0.547	0.010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Lead, total	7439-92-1	0.333	0.050	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Lithium, total	7439-93-2	0.0042	0.0010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244



Analytical Results

FC2601149-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 01-Jun-2026 07:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLOT
Total Metals								
Magnesium, total	7439-95-4	4.05	0.0050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Manganese, total	7439-96-5	0.0136	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Molybdenum, total	7439-98-7	0.400	0.050	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Nickel, total	7440-02-0	0.00155	0.00050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Potassium, total	7440-09-7	1.40	0.050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Rubidium, total	7440-17-7	0.00154	0.00020	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Selenium, total	7782-49-2	0.078	0.050	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Silicon, total	7440-21-3	2.33	0.10	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Silver, total	7440-22-4	<0.010	0.010	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Sodium, total	7440-23-5	5.74	0.050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Strontium, total	7440-24-6	0.0936	0.00020	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Sulfur, total	7704-34-9	3.49	0.50	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Thallium, total	7440-28-0	<0.010	0.010	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Titanium, total	7440-32-6	0.0121	0.00030	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Uranium, total	7440-61-1	0.177	0.010	µg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Vanadium, total	7440-62-2	0.00107	0.00050	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Zirconium, total	7440-67-7	0.00060	0.00020	mg/L	E420/EO	03-Jun-2026	03-Jun-2026	2626244
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0050	0.0010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Arsenic, dissolved	7440-38-2	0.00038	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Barium, dissolved	7440-39-3	0.0289	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Bismuth, dissolved	7440-69-9	<0.050	0.050	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Boron, dissolved	7440-42-8	0.019	0.010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Cadmium, dissolved	7440-43-9	<0.0050	0.0050	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Calcium, dissolved	7440-70-2	15.1	0.050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Cesium, dissolved	7440-46-2	<0.010	0.010	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Copper, dissolved	7440-50-8	0.00183	0.00020	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Iron, dissolved	7439-89-6	0.089	0.010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Lead, dissolved	7439-92-1	0.063	0.050	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Lithium, dissolved	7439-93-2	0.0037	0.0010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Magnesium, dissolved	7439-95-4	4.07	0.0050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Manganese, dissolved	7439-96-5	0.00055	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Molybdenum, dissolved	7439-98-7	0.365	0.050	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Nickel, dissolved	7440-02-0	0.00089	0.00050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951



Analytical Results

FC2601149-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 01-Jun-2026 07:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	1.37	0.050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Rubidium, dissolved	7440-17-7	0.00109	0.00020	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Selenium, dissolved	7782-49-2	0.079	0.050	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Silicon, dissolved	7440-21-3	1.66	0.050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Sodium, dissolved	7440-23-5	5.71	0.050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Strontium, dissolved	7440-24-6	0.0912	0.00020	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Sulfur, dissolved	7704-34-9	3.36	0.50	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Thallium, dissolved	7440-28-0	<0.010	0.010	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Titanium, dissolved	7440-32-6	0.00076	0.00030	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Uranium, dissolved	7440-61-1	0.140	0.010	µg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	05-Jun-2026	05-Jun-2026	2632951
Dissolved metals filtration location	----	Laboratory	-	-	EP421/EO	-	05-Jun-2026	2632951
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	09-Jun-2026	12-Jun-2026	2639437
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	04-Jun-2026	05-Jun-2026	2630978
F1-BTEX	----	<26	26	µg/L	EC580/EO	-	06-Jun-2026	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	03-Jun-2026	03-Jun-2026	2627853
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	03-Jun-2026	03-Jun-2026	2627853
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	03-Jun-2026	03-Jun-2026	2627853
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	06-Jun-2026	-
TEH (C10-C50)	n/a	<400	400	µg/L	E601/EO	03-Jun-2026	03-Jun-2026	2627853
TEH (C16-C50)	----	<400	400	µg/L	E601/EO	03-Jun-2026	03-Jun-2026	2627853
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	99.7	1.0	%	E601/EO	03-Jun-2026	03-Jun-2026	2627853
Dichlorotoluene, 3,4-	95-75-0	83.3	1.0	%	E581.F1/EO	04-Jun-2026	05-Jun-2026	2630978
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	83.7	1.0	%	E611A/EO	04-Jun-2026	05-Jun-2026	2630979



Analytical Results

FC2601149-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 01-Jun-2026 07:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLOT
Volatile Organic Compounds Surrogates								
Difluorobenzene, 1,4-	540-36-3	105	1.0	%	E611A/EO	04-Jun-2026	05-Jun-2026	2630979
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Indeno(1,2,3-cd)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.030	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.060	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
PAHs, total (CCME sewer 18)	n/a	<0.070	0.070	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
PAHs, total (P2MMP)	n/a	<0.040	0.040	µg/L	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	84.5	0.1	%	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Naphthalene-d8	1146-65-2	89.2	0.1	%	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Phenanthrene-d10	1517-22-2	87.4	0.1	%	E641A/EO	03-Jun-2026	03-Jun-2026	2627854
Disinfectant By-Products								
Chlorate	14866-68-3	<0.010	0.010	mg/L	E409.CLO3/WT	03-Jun-2026	03-Jun-2026	2629148

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