



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order : **FC2600094**
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 : FCWTP-SC4
PO : 4500061478
C-O-C number : ----
Sampler : EA
Site : ----
Quote number : FC24-RMWB100-0005 FC SC4
No. of samples received : 1
No. of samples analysed : 1

Laboratory : ALS Environmental - Fort McMurray
Account Manager : Megha Walia
Address : #4, 340 Macalpine Crescent
Fort McMurray AB Canada T9H 4A8
Telephone : +1 780 791 1524
Date Samples Received : 13-Jan-2026 16:30
Date Analysis Commenced : 14-Jan-2026
Issue Date : 02-Feb-2026 08:16

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
- Guideline Comparison

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
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Beelee Lacson	Lab Assistant	Inorganics, Edmonton, Alberta
Brayden Ginther	Laboratory Analyst	Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Parth Goswami	Team Leader - LCMS	LCMS, Waterloo, Ontario
Sanja Risticvic	Department Manager - LCMS	LCMS, Waterloo, Ontario
Shruti Mudliar	Lab Analyst	Inorganics, Edmonton, Alberta
Yan Zhang	Team Leader - Organics	Organics, Edmonton, Alberta



No Breaches Found

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.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key: LOR: Limit of Reporting (detection limit).

Unit	Description
-	no units
%	percent
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
pH units	pH units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).
For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
SUR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.



Analytical Results Evaluation

Matrix: Water

Matrix: Water				Client sample ID	R1-9150030-Fort Chipewyan Willy's	----	----	----	----	----	----
					Client sampling date / time	12-Jan-2026 08:00	----	----	----	----	----
					Sub-Matrix	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	
				Result	----	----	----	----	----	----	

Physical Tests

Alkalinity, bicarbonate (as HCO₃)	71-52-3	E290/EO	mg/L	66.9	----	----	----	----	----	----	----
Alkalinity, carbonate (as CO ₃)	3812-32-6	E290/EO	mg/L	<0.6	----	----	----	----	----	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	mg/L	<0.3	----	----	----	----	----	----	----
Alkalinity, total (as CaCO ₃)	----	E290/EO	mg/L	54.8	----	----	----	----	----	----	----
Colour, true	----	E329-L/EO	CU	<2.0	----	----	----	----	----	----	----
Conductivity	----	E100/EO	µS/cm	159	----	----	----	----	----	----	----
Hardness (as CaCO₃), dissolved	----	EC100/EO	mg/L	41.4	----	----	----	----	----	----	----
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/EO	mg/L	43.2	----	----	----	----	----	----	----
pH	----	E108/EO	pH units	8.01	----	----	----	----	----	----	----
Solids, total dissolved [TDS]	----	E162/EO	mg/L	87	----	----	----	----	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	mg/L	90.3	----	----	----	----	----	----	----

Anions and Nutrients

Ammonia, total (as N)	7664-41-7	E298/EO	mg/L	<0.0050	----	----	----	----	----	----	----
Chloride	16887-00-6	E235.Cl/EO	mg/L	13.6	----	----	----	----	----	----	----
Fluoride	16984-48-8	E235.F/EO	mg/L	0.028	----	----	----	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO ₃ /EO	mg/L	0.042	----	----	----	----	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/E O	mg/L	0.0420	----	----	----	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO ₂ /EO	mg/L	<0.010	----	----	----	----	----	----	----
Sulfate (as SO₄)	14808-79-8	E235.SO ₄ /EO	mg/L	5.79	----	----	----	----	----	----	----



Matrix: Water

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Client sampling date / time					12-Jan-2026 08:00	----	----	----	----	----	----
Sub-Matrix					Water	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	----
					Result	----	----	----	----	----	----
Cyanides											
Cyanide, strong acid dissociable (Total)	----	E333/WT	mg/L	<0.0020	----	----	----	----	----	----	----
Organic / Inorganic Carbon											
Carbon, total organic [TOC]	----	E355-L/EO	mg/L	2.75	----	----	----	----	----	----	----
Inorganics											
Chlorine, total	7782-50-5	E326-H/EO	mg/L	1.38	----	----	----	----	----	----	----
Chlorine, free	7782-50-5	E327-H/EO	mg/L	1.21	----	----	----	----	----	----	----
Chloramines, total (as Cl2)	----	EC326/EO	mg/L	<0.20	----	----	----	----	----	----	----
Total Sulfides											
Sulfide, total (as S)	18496-25-8	E395/CG	mg/L	<0.0015	----	----	----	----	----	----	----
Sulfide, total (as H2S)	7783-06-4	E395/CG	mg/L	<0.0016	----	----	----	----	----	----	----
Ion Balance											
Ion balance (cations/anions)	----	EC101/EO	%	98.8	----	----	----	----	----	----	----
Total Metals											
Aluminum, total	7429-90-5	E420/EO	mg/L	0.0126	----	----	----	----	----	----	----
Antimony, total	7440-36-0	E420/EO	mg/L	<0.00010	----	----	----	----	----	----	----
Arsenic, total	7440-38-2	E420/EO	mg/L	0.00013	----	----	----	----	----	----	----
Barium, total	7440-39-3	E420/EO	mg/L	0.0188	----	----	----	----	----	----	----
Boron, total	7440-42-8	E420/EO	mg/L	0.016	----	----	----	----	----	----	----
Cadmium, total	7440-43-9	E420/EO	µg/L	<0.0050	----	----	----	----	----	----	----
Calcium, total	7440-70-2	E420/EO	mg/L	11.7	----	----	----	----	----	----	----



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Sub-Matrix					Water	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	----
					Result	----	----	----	----	----	----
Total Metals											
Chromium, total	7440-47-3	E420/EO	mg/L	<0.00050	----	----	----	----	----	----	----
Copper, total	7440-50-8	E420/EO	mg/L	0.00148	----	----	----	----	----	----	----
Iron, total	7439-89-6	E420/EO	mg/L	<0.010	----	----	----	----	----	----	----
Lead, total	7439-92-1	E420/EO	µg/L	<0.050	----	----	----	----	----	----	----
Magnesium, total	7439-95-4	E420/EO	mg/L	3.39	----	----	----	----	----	----	----
Manganese, total	7439-96-5	E420/EO	mg/L	0.00484	----	----	----	----	----	----	----
Mercury, total	7439-97-6	E508/EO	µg/L	<0.0050	----	----	----	----	----	----	----
Nickel, total	7440-02-0	E420/EO	mg/L	<0.00050	----	----	----	----	----	----	----
Selenium, total	7782-49-2	E420/EO	µg/L	<0.050	----	----	----	----	----	----	----
Silver, total	7440-22-4	E420/EO	µg/L	<0.010	----	----	----	----	----	----	----
Sodium, total	7440-23-5	E420/EO	mg/L	16.7	----	----	----	----	----	----	----
Strontium, total	7440-24-6	E420/EO	mg/L	0.0747	----	----	----	----	----	----	----
Uranium, total	7440-61-1	E420/EO	µg/L	<0.010	----	----	----	----	----	----	----
Zinc, total	7440-66-6	E420/EO	mg/L	<0.0030	----	----	----	----	----	----	----
Dissolved Metals											
Aluminum, dissolved	7429-90-5	E421/EO	mg/L	0.0108	----	----	----	----	----	----	----
Antimony, dissolved	7440-36-0	E421/EO	mg/L	<0.00010	----	----	----	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/EO	mg/L	0.00013	----	----	----	----	----	----	----
Barium, dissolved	7440-39-3	E421/EO	mg/L	0.0191	----	----	----	----	----	----	----
Beryllium, dissolved	7440-41-7	E421/EO	µg/L	<0.020	----	----	----	----	----	----	----



Matrix: Water

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Client sampling date / time					12-Jan-2026 08:00	----	----	----	----	----	----
Sub-Matrix					Water	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	----
					Result	----	----	----	----	----	----
Dissolved Metals											
Bismuth, dissolved	7440-69-9	E421/EO	µg/L	<0.050	----	----	----	----	----	----	----
Boron, dissolved	7440-42-8	E421/EO	mg/L	0.016	----	----	----	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	µg/L	<0.0050	----	----	----	----	----	----	----
Calcium, dissolved	7440-70-2	E421/EO	mg/L	11.0	----	----	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/EO	µg/L	<0.010	----	----	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/EO	mg/L	<0.00050	----	----	----	----	----	----	----
Cobalt, dissolved	7440-48-4	E421/EO	mg/L	<0.00010	----	----	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/EO	mg/L	0.00116	----	----	----	----	----	----	----
Iron, dissolved	7439-89-6	E421/EO	mg/L	<0.010	----	----	----	----	----	----	----
Lead, dissolved	7439-92-1	E421/EO	µg/L	<0.050	----	----	----	----	----	----	----
Lithium, dissolved	7439-93-2	E421/EO	mg/L	0.0028	----	----	----	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/EO	mg/L	3.39	----	----	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	mg/L	0.00136	----	----	----	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	mg/L	0.000252	----	----	----	----	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	mg/L	<0.00050	----	----	----	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	mg/L	<0.050	----	----	----	----	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	mg/L	0.998	----	----	----	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	mg/L	0.00092	----	----	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	µg/L	<0.050	----	----	----	----	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	mg/L	2.14	----	----	----	----	----	----	----



Matrix: Water

Matrix: Water				Client sample ID	R1-9150030-Fort Chipewyan Willy's	----	----	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----	----	----
Sub-Matrix					Water	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	----
					Result	----	----	----	----	----	----
Dissolved Metals											
Silver, dissolved	7440-22-4	E421/EO	µg/L	<0.010	----	----	----	----	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	mg/L	16.6	----	----	----	----	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	mg/L	0.0762	----	----	----	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	mg/L	2.17	----	----	----	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/EO	mg/L	<0.00020	----	----	----	----	----	----	----
Thallium, dissolved	7440-28-0	E421/EO	µg/L	<0.010	----	----	----	----	----	----	----
Thorium, dissolved	7440-29-1	E421/EO	mg/L	<0.00010	----	----	----	----	----	----	----
Tin, dissolved	7440-31-5	E421/EO	mg/L	<0.00010	----	----	----	----	----	----	----
Titanium, dissolved	7440-32-6	E421/EO	mg/L	<0.00030	----	----	----	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/EO	mg/L	<0.00010	----	----	----	----	----	----	----
Uranium, dissolved	7440-61-1	E421/EO	µg/L	<0.010	----	----	----	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/EO	mg/L	<0.00050	----	----	----	----	----	----	----
Zinc, dissolved	7440-66-6	E421/EO	mg/L	0.0012	----	----	----	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	mg/L	<0.00020	----	----	----	----	----	----	----
Dissolved metals filtration location	----	EP421/EO	-	Field	----	----	----	----	----	----	----
Aggregate Organics											
Nitritotriacetic acid [NTA]	139-13-9	E394/WT	mg/L	<0.40	----	----	----	----	----	----	----
Volatile Organic Compounds											
Benzene	71-43-2	E611E/EO	µg/L	<0.50	----	----	----	----	----	----	----
Carbon tetrachloride	56-23-5	E611E/EO	µg/L	<0.50	----	----	----	----	----	----	----



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Sub-Matrix					Water	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	----
				Result	----	----	----	----	----	----	----

Volatile Organic Compounds

Chlorobenzene	108-90-7	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611E/EO	µg/L	<0.50	----	----	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Dichloromethane	75-09-2	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Dioxane, 1,4-	123-91-1	E611I/WT	µg/L	<20	----	----	----	----	----	----
Ethylbenzene	100-41-4	E611E/EO	µg/L	<0.50	----	----	----	----	----	----
Tetrachloroethylene	127-18-4	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Toluene	108-88-3	E611E/EO	µg/L	<0.50	----	----	----	----	----	----
Trichloroethylene	79-01-6	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Vinyl chloride	75-01-4	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Xylene, m+p-	179601-23-1	E611E/EO	µg/L	<0.40	----	----	----	----	----	----
Xylene, o-	95-47-6	E611E/EO	µg/L	<0.30	----	----	----	----	----	----
Xylenes, total	1330-20-7	E611E/EO	µg/L	<0.50	----	----	----	----	----	----

Volatile Organic Compounds Surrogates

Bromofluorobenzene, 4-	460-00-4	E611I/WT	%	101	----	----	----	----	----	----
Bromofluorobenzene, 4-	460-00-4	E611E/EO	%	93.9	----	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611I/WT	%	98.6	----	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611E/EO	%	110	----	----	----	----	----	----



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Sub-Matrix					Water	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	----
				Result	----	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons											
Benzo(a)pyrene	50-32-8	E641A/EO	µg/L	<0.0050	----	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates											
Chrysene-d12	1719-03-5	E641A/EO	%	94.7	----	----	----	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/EO	%	98.8	----	----	----	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	%	101	----	----	----	----	----	----	----
Disinfectant By-Products											
Bromate	15541-45-4	E722A/WT	µg/L	<0.30	----	----	----	----	----	----	----
Chlorate	14866-68-3	E409.CLO3/W T	mg/L	0.077	----	----	----	----	----	----	----
Chlorite	14998-27-7	E409.CLO2/W T	mg/L	<0.010	----	----	----	----	----	----	----
Semi-Volatile Organics											
Nitrosodimethylamine, N- [NDMA]	62-75-9	E725-T/WT	µg/L	<0.00090	----	----	----	----	----	----	----
Semi-Volatile Organics Surrogates											
Fluorobiphenyl, 2-	321-60-8	E625A/WT	%	75.8	----	----	----	----	----	----	----
Nitrobenzene-d5	4165-60-0	E625A/WT	%	115	----	----	----	----	----	----	----
Terphenyl-d14, p-	1718-51-0	E625A/WT	%	89.2	----	----	----	----	----	----	----
Chlorinated Phenolics											
Dichlorophenol, 2,4-	120-83-2	E625A/WT	µg/L	<0.20	----	----	----	----	----	----	----
Pentachlorophenol [PCP]	87-86-5	E625A/WT	µg/L	<0.50	----	----	----	----	----	----	----
Tetrachlorophenol, 2,3,4,6-	58-90-2	E625A/WT	µg/L	<0.50	----	----	----	----	----	----	----
Trichlorophenol, 2,4,6-	88-06-2	E625A/WT	µg/L	<0.20	----	----	----	----	----	----	----



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Sub-Matrix					Water	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	----
					Result	----	----	----	----	----	----
Phenolics Surrogates											
Tribromophenol, 2,4,6-	118-79-6	E625A/WT	%	91.6	----	----	----	----	----	----	----
Organochlorine Pesticides Surrogates											
Decachlorobiphenyl	2051-24-3	E660F/WT	%	120	----	----	----	----	----	----	----
Tetrachloro-m-xylene	877-09-8	E660F/WT	%	132 ^{SUR-ND}	----	----	----	----	----	----	----
Herbicides											
Alachlor	15972-60-8	E755/WT	µg/L	<0.050	----	----	----	----	----	----	----
Atrazine	1912-24-9	E755/WT	µg/L	<0.050	----	----	----	----	----	----	----
Atrazine + metabolites, total	----	E755/WT	µg/L	<0.45	----	----	----	----	----	----	----
Atrazine + N-dealkylated metabolites	----	E755/WT	µg/L	<0.10	----	----	----	----	----	----	----
Atrazine-desethyl	6190-65-4	E755/WT	µg/L	<0.025	----	----	----	----	----	----	----
Cyanazine	21725-46-2	E755/WT	µg/L	<0.10	----	----	----	----	----	----	----
Diclofop-methyl	51338-27-3	E755/WT	µg/L	<0.10	----	----	----	----	----	----	----
Dinoseb	88-85-7	E706A/WT	µg/L	<0.050	----	----	----	----	----	----	----
Diuron	330-54-1	E755/WT	µg/L	<0.050	----	----	----	----	----	----	----
Metolachlor	51218-45-2	E755/WT	µg/L	<0.025	----	----	----	----	----	----	----
Metribuzin	21087-64-9	E755/WT	µg/L	<0.10	----	----	----	----	----	----	----
Prometryn	7287-19-6	E755/WT	µg/L	<0.025	----	----	----	----	----	----	----
Simazine	122-34-9	E755/WT	µg/L	<0.10	----	----	----	----	----	----	----
Triallate	2303-17-5	E755/WT	µg/L	<0.10	----	----	----	----	----	----	----
Trifluralin	1582-09-8	E756/WT	µg/L	<0.10	----	----	----	----	----	----	----



Matrix: Water

Matrix: Water				Client sample ID	R1-9150030-Fort Chipewyan Willy's	----	----	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----	----	----
Sub-Matrix					Water	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	----
					Result	----	----	----	----	----	----
Herbicides Surrogates											
Dichlorophenylacetic acid, 2,4-	19719-28-9	E706A/WT	%	95.9	----	----	----	----	----	----	----
Insecticides											
Aldicarb	116-06-3	E755/WT	µg/L	<0.10	----	----	----	----	----	----	----
Azinphos-methyl	86-50-0	E755/WT	µg/L	<0.10	----	----	----	----	----	----	----
Bendiocarb	22781-23-3	E755/WT	µg/L	<0.025	----	----	----	----	----	----	----
Carbaryl	63-25-2	E755/WT	µg/L	<0.050	----	----	----	----	----	----	----
Carbofuran	1563-66-2	E755/WT	µg/L	<0.025	----	----	----	----	----	----	----
Chlorpyrifos	2921-88-2	E756/WT	µg/L	<0.10	----	----	----	----	----	----	----
Diazinon	333-41-5	E755/WT	µg/L	<0.025	----	----	----	----	----	----	----
Dimethoate	60-51-5	E755/WT	µg/L	<0.050	----	----	----	----	----	----	----
Malathion	121-75-5	E755/WT	µg/L	<0.025	----	----	----	----	----	----	----
Parathion	56-38-2	E756/WT	µg/L	<0.10	----	----	----	----	----	----	----
Phorate	298-02-2	E755/WT	µg/L	<0.25	----	----	----	----	----	----	----
Temephos	3383-96-8	E755/WT	µg/L	<0.25	----	----	----	----	----	----	----
Terbufos	13071-79-9	E755/WT	µg/L	<0.50	----	----	----	----	----	----	----
Pesticides											
Acetic acid, 2-methyl-4-chlorophenoxy-[MCPA]	94-74-6	E706A/WT	µg/L	<0.050	----	----	----	----	----	----	----
Aldrin	309-00-2	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----	----
Aldrin + Dieldrin	----	E660F/WT	µg/L	<0.011	----	----	----	----	----	----	----
Bromoxynil	1689-84-5	E706A/WT	µg/L	<0.050	----	----	----	----	----	----	----



Matrix: Water

Matrix: Water				Client sample ID	R1-9150030-Fort Chipewyan Willy's	----	----	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----	----	----
Sub-Matrix					Water	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	----
				Result	----	----	----	----	----	----	----

Pesticides											
Chlordane, cis- (alpha)	5103-71-9	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----	----
Chlordane, total	57-74-9	E660F/WT	µg/L	<0.011	----	----	----	----	----	----	----
Chlordane, trans- (gamma)	5103-74-2	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----	----
DDD, 2,4'-	53-19-0	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----	----
DDD, 4,4'-	72-54-8	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----	----
DDD, total	----	E660F/WT	µg/L	<0.0060	----	----	----	----	----	----	----
DDE, 2,4'-	3424-82-6	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----	----
DDE, 4,4'-	72-55-9	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----	----
DDE, total	----	E660F/WT	µg/L	<0.0060	----	----	----	----	----	----	----
DDT + metabolites, total	----	E660F/WT	µg/L	<0.010	----	----	----	----	----	----	----
DDT, 2,4'-	789-02-6	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----	----
DDT, 4,4'-	50-29-3	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----	----
DDT, total	----	E660F/WT	µg/L	<0.0060	----	----	----	----	----	----	----
Dicamba	1918-00-9	E706A/WT	µg/L	<0.10	----	----	----	----	----	----	----
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	94-75-7	E706A/WT	µg/L	<0.050	----	----	----	----	----	----	----
Dieldrin	60-57-1	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----	----
Diquat (ion)	2764-72-9	E723A/WT	µg/L	<1.0	----	----	----	----	----	----	----
Glyphosate	1071-83-6	E716A/WT	µg/L	<1.0	----	----	----	----	----	----	----
Heptachlor	76-44-8	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----	----
Heptachlor + Heptachlor epoxide	n/a	E660F/WT	µg/L	<0.011	----	----	----	----	----	----	----



Matrix: Water

Matrix: Water				Client sample ID	R1-9150030-Fort Chipewyan Willy's	----	----	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----	----	----
Sub-Matrix					Water	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2600094-001	----	----	----	----	----	----	----
				Result	----	----	----	----	----	----	----
Pesticides											
Heptachlor epoxide	1024-57-3	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----	----
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----	----
Methoxychlor	72-43-5	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----	----
Oxychlordan	27304-13-8	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----	----
Paraquat (as dichloride)	1910-42-5	E723A/WT	µg/L	<1.0	----	----	----	----	----	----	----
Picloram	1918-02-1	E706A/WT	µg/L	<0.50 ^{DLM}	----	----	----	----	----	----	----
Trichlorophenoxyacetic acid, 2,4,5- [2,4,5-T]	93-76-5	E706A/WT	µg/L	<0.050	----	----	----	----	----	----	----
Nitrosamines Surrogates											
Nitrosodimethylamine-d6, N-	17829-05-9	E725-T/WT	%	106	----	----	----	----	----	----	----

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



Summary of Guideline Limits

CERTIFICATE OF ANALYSIS

Work Order	: FC2600094	Laboratory	: ALS Environmental - Fort McMurray
Client	: Regional Municipality of Wood Buffalo	Account Manager	: Megha Walia
Contact	: Water Treatment Plant	Address	: #4, 340 Macalpine Crescent
Address	: 1 Silin Forest Road		Fort McMurray AB Canada T9H 4A8
	Fort McMurray Alberta Canada T9H 5A1	E-mail	: Megha.Walia@alsglobal.com
Telephone	: 780-762-5863	Telephone	: +1 780 791 1524
Project	: FCWTP-SC4	Date Samples Received	: 13-Jan-2026 16:30
PO	: 4500061478	Date Analysis Commenced	: 14-Jan-2026
C-O-C number	: ----	Issue Date	: 02-Feb-2026 08:16
Sampler	: EA		
Site	: ----		
Quote number	: FC24-RMWB100-0005 FC SC4		
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
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Beelee Lacson	Lab Assistant	Inorganics, Edmonton, Alberta
Brayden Ginther	Laboratory Analyst	Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Parth Goswami	Team Leader - LCMS	LCMS, Waterloo, Ontario
Sanja Risticvic	Department Manager - LCMS	LCMS, Waterloo, Ontario
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).

Unit	Description
-	no units
%	percent
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
pH units	pH 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

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
SUR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan Willy's	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----
					Result	----	----	----	----
Physical Tests									
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	E290/EO	1.2	mg/L	66.9	----	----	----	----
Alkalinity, carbonate (as CO ₃)	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 CaCO ₃)	----	E290/EO	1.0	mg/L	54.8	----	----	----	----
Colour, true	----	E329-L/EO	2.0	CU	<2.0	----	----	----	----
Conductivity	----	E100/EO	1.0	µS/cm	159	----	----	----	----
Hardness (as CaCO ₃), dissolved	----	EC100/EO	0.50	mg/L	41.4	----	----	----	----
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/EO	0.50	mg/L	43.2	----	----	----	----
pH	----	E108/EO	0.10	pH units	8.01	----	----	----	----
Solids, total dissolved [TDS]	----	E162/EO	10	mg/L	87	----	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	90.3	----	----	----	----
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/EO	0.0050	mg/L	<0.0050	----	----	----	----
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	13.6	----	----	----	----
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	0.028	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO ₃ /EO	0.020	mg/L	0.042	----	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/EO	0.0032	mg/L	0.0420	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO ₂ /EO	0.010	mg/L	<0.010	----	----	----	----
Sulfate (as SO ₄)	14808-79-8	E235.SO ₄ /EO	0.30	mg/L	5.79	----	----	----	----
Cyanides									
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L	<0.0020	----	----	----	----



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan Willy's	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----
					Result	----	----	----	----
Organic / Inorganic Carbon									
Carbon, total organic [TOC]	----	E355-L/EO	0.50	mg/L	2.75	----	----	----	----
Inorganics									
Chlorine, total	7782-50-5	E326-H/EO	0.10	mg/L	1.38	----	----	----	----
Chlorine, free	7782-50-5	E327-H/EO	0.10	mg/L	1.21	----	----	----	----
Chloramines, total (as Cl2)	----	EC326/EO	0.20	mg/L	<0.20	----	----	----	----
Total Sulfides									
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L	<0.0015	----	----	----	----
Sulfide, total (as H2S)	7783-06-4	E395/CG	0.0016	mg/L	<0.0016	----	----	----	----
Ion Balance									
Ion balance (cations/anions)	----	EC101/EO	0.010	%	98.8	----	----	----	----
Total Metals									
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.0126	----	----	----	----
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00013	----	----	----	----
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0188	----	----	----	----
Boron, total	7440-42-8	E420/EO	0.010	mg/L	0.016	----	----	----	----
Cadmium, total	7440-43-9	E420/EO	0.0050	µg/L	<0.0050	----	----	----	----
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	11.7	----	----	----	----
Chromium, total	7440-47-3	E420/EO	0.00050	mg/L	<0.00050	----	----	----	----
Copper, total	7440-50-8	E420/EO	0.00050	mg/L	0.00148	----	----	----	----
Iron, total	7439-89-6	E420/EO	0.010	mg/L	<0.010	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan Willy's	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----
					Result	----	----	----	----
Total Metals									
Lead, total	7439-92-1	E420/EO	0.050	µg/L	<0.050	----	----	----	----
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L	3.39	----	----	----	----
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L	0.00484	----	----	----	----
Mercury, total	7439-97-6	E508/EO	0.0050	µg/L	<0.0050	----	----	----	----
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L	<0.00050	----	----	----	----
Selenium, total	7782-49-2	E420/EO	0.050	µg/L	<0.050	----	----	----	----
Silver, total	7440-22-4	E420/EO	0.010	µg/L	<0.010	----	----	----	----
Sodium, total	7440-23-5	E420/EO	0.050	mg/L	16.7	----	----	----	----
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L	0.0747	----	----	----	----
Uranium, total	7440-61-1	E420/EO	0.010	µg/L	<0.010	----	----	----	----
Zinc, total	7440-66-6	E420/EO	0.0030	mg/L	<0.0030	----	----	----	----
Dissolved Metals									
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L	0.0108	----	----	----	----
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L	0.00013	----	----	----	----
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0191	----	----	----	----
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	0.016	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	0.0050	µg/L	<0.0050	----	----	----	----
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	11.0	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan Willy's	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----
					Result	----	----	----	----
Dissolved Metals									
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	0.00116	----	----	----	----
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	0.0028	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	3.39	----	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.00136	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	0.000050	mg/L	0.000252	----	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L	<0.00050	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	0.998	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00092	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	0.050	µg/L	<0.050	----	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	2.14	----	----	----	----
Silver, dissolved	7440-22-4	E421/EO	0.010	µg/L	<0.010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	16.6	----	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.0762	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	2.17	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/EO	0.00020	mg/L	<0.00020	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan Willy's	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----
					Result	----	----	----	----
Dissolved Metals									
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	0.0012	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	0.00020	mg/L	<0.00020	----	----	----	----
Dissolved metals filtration location	----	EP421/EO	-	-	Field	----	----	----	----
Aggregate Organics									
Nitritotriacetic acid [NTA]	139-13-9	E394/WT	0.40	mg/L	<0.40	----	----	----	----
Volatile Organic Compounds									
Benzene	71-43-2	E611E/EO	0.50	µg/L	<0.50	----	----	----	----
Carbon tetrachloride	56-23-5	E611E/EO	0.50	µg/L	<0.50	----	----	----	----
Chlorobenzene	108-90-7	E611E/EO	1.0	µg/L	<1.0	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611E/EO	0.50	µg/L	<0.50	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611E/EO	1.0	µg/L	<1.0	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611E/EO	1.0	µg/L	<1.0	----	----	----	----
Dichloromethane	75-09-2	E611E/EO	1.0	µg/L	<1.0	----	----	----	----
Dioxane, 1,4-	123-91-1	E611I/WT	20	µg/L	<20	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan Willy's	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----
					Result	----	----	----	----
Volatile Organic Compounds									
Ethylbenzene	100-41-4	E611E/EO	0.50	µg/L	<0.50	----	----	----	----
Tetrachloroethylene	127-18-4	E611E/EO	1.0	µg/L	<1.0	----	----	----	----
Toluene	108-88-3	E611E/EO	0.50	µg/L	<0.50	----	----	----	----
Trichloroethylene	79-01-6	E611E/EO	1.0	µg/L	<1.0	----	----	----	----
Vinyl chloride	75-01-4	E611E/EO	1.0	µg/L	<1.0	----	----	----	----
Xylene, m+p-	179601-23-1	E611E/EO	0.40	µg/L	<0.40	----	----	----	----
Xylene, o-	95-47-6	E611E/EO	0.30	µg/L	<0.30	----	----	----	----
Xylenes, total	1330-20-7	E611E/EO	0.50	µg/L	<0.50	----	----	----	----
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	E611I/WT	1.0	%	101	----	----	----	----
Bromofluorobenzene, 4-	460-00-4	E611E/EO	1.0	%	93.9	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611I/WT	1.0	%	98.6	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611E/EO	1.0	%	110	----	----	----	----
Polycyclic Aromatic Hydrocarbons									
Benzo(a)pyrene	50-32-8	E641A/EO	0.0050	µg/L	<0.0050	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates									
Chrysene-d12	1719-03-5	E641A/EO	0.1	%	94.7	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	98.8	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	101	----	----	----	----
Disinfectant By-Products									
Bromate	15541-45-4	E722A/WT	0.30	µg/L	<0.30	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan Willy's	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----
					Result	----	----	----	----
Disinfectant By-Products									
Chlorate	14866-68-3	E409.CLO3/WT	0.010	mg/L	0.077	----	----	----	----
Chlorite	14998-27-7	E409.CLO2/WT	0.010	mg/L	<0.010	----	----	----	----
Semi-Volatile Organics									
Nitrosodimethylamine, N- [NDMA]	62-75-9	E725-T/WT	0.00090	µg/L	<0.00090	----	----	----	----
Semi-Volatile Organics Surrogates									
Fluorobiphenyl, 2-	321-60-8	E625A/WT	1.0	%	75.8	----	----	----	----
Nitrobenzene-d5	4165-60-0	E625A/WT	1.0	%	115	----	----	----	----
Terphenyl-d14, p-	1718-51-0	E625A/WT	1.0	%	89.2	----	----	----	----
Chlorinated Phenolics									
Dichlorophenol, 2,4-	120-83-2	E625A/WT	0.20	µg/L	<0.20	----	----	----	----
Pentachlorophenol [PCP]	87-86-5	E625A/WT	0.50	µg/L	<0.50	----	----	----	----
Tetrachlorophenol, 2,3,4,6-	58-90-2	E625A/WT	0.50	µg/L	<0.50	----	----	----	----
Trichlorophenol, 2,4,6-	88-06-2	E625A/WT	0.20	µg/L	<0.20	----	----	----	----
Phenolics Surrogates									
Tribromophenol, 2,4,6-	118-79-6	E625A/WT	0.50	%	91.6	----	----	----	----
Organochlorine Pesticides Surrogates									
Decachlorobiphenyl	2051-24-3	E660F/WT	0.10	%	120	----	----	----	----
Tetrachloro-m-xylene	877-09-8	E660F/WT	0.10	%	132 ^{SUR-ND}	----	----	----	----
Herbicides									
Alachlor	15972-60-8	E755/WT	0.050	µg/L	<0.050	----	----	----	----
Atrazine	1912-24-9	E755/WT	0.050	µg/L	<0.050	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan Willy's	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----
					Result	----	----	----	----
Herbicides									
Atrazine + metabolites, total	----	E755/WT	0.45	µg/L	<0.45	----	----	----	----
Atrazine + N-dealkylated metabolites	----	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Atrazine-desethyl	6190-65-4	E755/WT	0.025	µg/L	<0.025	----	----	----	----
Cyanazine	21725-46-2	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Diclofop-methyl	51338-27-3	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Dinoseb	88-85-7	E706A/WT	0.050	µg/L	<0.050	----	----	----	----
Diuron	330-54-1	E755/WT	0.050	µg/L	<0.050	----	----	----	----
Metolachlor	51218-45-2	E755/WT	0.025	µg/L	<0.025	----	----	----	----
Metribuzin	21087-64-9	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Prometryn	7287-19-6	E755/WT	0.025	µg/L	<0.025	----	----	----	----
Simazine	122-34-9	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Triallate	2303-17-5	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Trifluralin	1582-09-8	E756/WT	0.10	µg/L	<0.10	----	----	----	----
Herbicides Surrogates									
Dichlorophenylacetic acid, 2,4-	19719-28-9	E706A/WT	1.0	%	95.9	----	----	----	----
Insecticides									
Aldicarb	116-06-3	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Azinphos-methyl	86-50-0	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Bendiocarb	22781-23-3	E755/WT	0.025	µg/L	<0.025	----	----	----	----
Carbaryl	63-25-2	E755/WT	0.050	µg/L	<0.050	----	----	----	----
Carbofuran	1563-66-2	E755/WT	0.025	µg/L	<0.025	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan Willy's	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----
					Result	----	----	----	----
Insecticides									
Chlorpyrifos	2921-88-2	E756/WT	0.10	µg/L	<0.10	----	----	----	----
Diazinon	333-41-5	E755/WT	0.025	µg/L	<0.025	----	----	----	----
Dimethoate	60-51-5	E755/WT	0.050	µg/L	<0.050	----	----	----	----
Malathion	121-75-5	E755/WT	0.025	µg/L	<0.025	----	----	----	----
Parathion	56-38-2	E756/WT	0.10	µg/L	<0.10	----	----	----	----
Phorate	298-02-2	E755/WT	0.25	µg/L	<0.25	----	----	----	----
Temephos	3383-96-8	E755/WT	0.25	µg/L	<0.25	----	----	----	----
Terbufos	13071-79-9	E755/WT	0.50	µg/L	<0.50	----	----	----	----
Pesticides									
Acetic acid, 2-methyl-4-chlorophenoxy-[MCPA]	94-74-6	E706A/WT	0.050	µg/L	<0.050	----	----	----	----
Aldrin	309-00-2	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----
Aldrin + Dieldrin	----	E660F/WT	0.011	µg/L	<0.011	----	----	----	----
Bromoxynil	1689-84-5	E706A/WT	0.050	µg/L	<0.050	----	----	----	----
Chlordane, cis- (alpha)	5103-71-9	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----
Chlordane, total	57-74-9	E660F/WT	0.011	µg/L	<0.011	----	----	----	----
Chlordane, trans- (gamma)	5103-74-2	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----
DDD, 2,4'-	53-19-0	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----
DDD, 4,4'-	72-54-8	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----
DDD, total	----	E660F/WT	0.0060	µg/L	<0.0060	----	----	----	----
DDE, 2,4'-	3424-82-6	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan Willy's	----	----	----	----
Client sampling date / time					12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----
					Result	----	----	----	----
Pesticides									
DDE, 4,4'-	72-55-9	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----
DDE, total	----	E660F/WT	0.0060	µg/L	<0.0060	----	----	----	----
DDT + metabolites, total	----	E660F/WT	0.010	µg/L	<0.010	----	----	----	----
DDT, 2,4'-	789-02-6	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----
DDT, 4,4'-	50-29-3	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----
DDT, total	----	E660F/WT	0.0060	µg/L	<0.0060	----	----	----	----
Dicamba	1918-00-9	E706A/WT	0.10	µg/L	<0.10	----	----	----	----
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	94-75-7	E706A/WT	0.050	µg/L	<0.050	----	----	----	----
Dieldrin	60-57-1	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----
Diquat (ion)	2764-72-9	E723A/WT	1.0	µg/L	<1.0	----	----	----	----
Glyphosate	1071-83-6	E716A/WT	1.0	µg/L	<1.0	----	----	----	----
Heptachlor	76-44-8	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----
Heptachlor + Heptachlor epoxide	n/a	E660F/WT	0.011	µg/L	<0.011	----	----	----	----
Heptachlor epoxide	1024-57-3	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----
Methoxychlor	72-43-5	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----
Oxychlordan	27304-13-8	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----
Paraquat (as dichloride)	1910-42-5	E723A/WT	1.0	µg/L	<1.0	----	----	----	----
Picloram	1918-02-1	E706A/WT	0.10	µg/L	<0.50 ^{DLM}	----	----	----	----
Trichlorophenoxyacetic acid, 2,4,5- [2,4,5-T]	93-76-5	E706A/WT	0.050	µg/L	<0.050	----	----	----	----



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)					Client sample ID	R1-9150030-Fort Chipewyan Willy's	----	----	----	----
					Client sampling date / time	12-Jan-2026 08:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2600094-001	----	----	----	----	
						Result	----	----	----	----
Nitrosamines Surrogates										
Nitrosodimethylamine-d6, N-	17829-05-9	E725-T/WT	0.00090	%	106	----	----	----	----	

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

CERTIFICATE OF ANALYSIS

Work Order	: FC2600094	Page	: 1 of 7
Client	: Regional Municipality of Wood Buffalo	Laboratory	: ALS Environmental - Fort McMurray
Contact	: Water Treatment Plant	Account Manager	: Megha Walia
Address	: 1 Silin Forest Road	Address	: #4, 340 Macalpine Crescent
	Fort McMurray AB Canada T9H 5A1		Fort McMurray AB Canada T9H 4A8
Telephone	: 780-762-5863	Telephone	: +1 780 791 1524
Project	: FCWTP-SC4	Date Samples Received	: 13-Jan-2026 16:30
PO	: 4500061478	Date Analysis	: 14-Jan-2026
		Commenced	
		Issue Date	: 02-Feb-2026 08:15
C-O-C number	: ----		
Sampler	: EA		
Site	: ----		
Quote number	: FC24-RMWB100-0005 FC SC4		
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
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Beelee Lacson	Lab Assistant	Inorganics, Edmonton, Alberta
Brayden Ginther	Laboratory Analyst	Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Parth Goswami	Team Leader - LCMS	LCMS, Waterloo, Ontario
Sanja Risticvic	Department Manager - LCMS	LCMS, Waterloo, Ontario
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).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	Description
-	no units
%	percent
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
pH units	pH 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

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
SUR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.



Analytical Results

FC2600094-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan - Willy's

Client sampling date / time: 12-Jan-2026 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	66.9	1.2	mg/L	E290/EO	15-Jan-2026	15-Jan-2026	2418402
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	15-Jan-2026	15-Jan-2026	2418402
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	15-Jan-2026	15-Jan-2026	2418402
Alkalinity, total (as CaCO ₃)	----	54.8	1.0	mg/L	E290/EO	15-Jan-2026	15-Jan-2026	2418402
Colour, true	----	<2.0	2.0	CU	E329-L/EO	14-Jan-2026	14-Jan-2026	2417011
Conductivity	----	159	1.0	µS/cm	E100/EO	15-Jan-2026	15-Jan-2026	2418404
Hardness (as CaCO ₃), dissolved	----	41.4	0.50	mg/L	EC100/EO	-	15-Jan-2026	-
Hardness (as CaCO ₃), from total Ca/Mg	----	43.2	0.50	mg/L	EC100A/EO	-	15-Jan-2026	-
pH	----	8.01	0.10	pH units	E108/EO	15-Jan-2026	15-Jan-2026	2418403
Solids, total dissolved [TDS]	----	87	13	mg/L	E162/EO	-	14-Jan-2026	2416646
Solids, total dissolved [TDS], calculated	----	90.3	1.0	mg/L	EC103/EO	-	14-Jan-2026	-
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	<0.0050	0.0050	mg/L	E298/EO	15-Jan-2026	15-Jan-2026	2417971
Chloride	16887-00-6	13.6	0.50	mg/L	E235.Cl/EO	14-Jan-2026	14-Jan-2026	2417159
Fluoride	16984-48-8	0.028	0.020	mg/L	E235.F/EO	14-Jan-2026	14-Jan-2026	2417156
Nitrate (as N)	14797-55-8	0.042	0.020	mg/L	E235.NO ₃ /EO	14-Jan-2026	14-Jan-2026	2417157
Nitrate + Nitrite (as N)	----	0.0420	0.022	mg/L	EC235.N+N/EO	-	14-Jan-2026	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO ₂ /EO	14-Jan-2026	14-Jan-2026	2417160
Sulfate (as SO ₄)	14808-79-8	5.79	0.30	mg/L	E235.SO ₄ /EO	14-Jan-2026	14-Jan-2026	2417158
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0020	0.0020	mg/L	E333/WT	16-Jan-2026	16-Jan-2026	2418370
Organic / Inorganic Carbon								
Carbon, total organic [TOC]	----	2.75	0.50	mg/L	E355-L/EO	15-Jan-2026	15-Jan-2026	2418184
Inorganics								
Chlorine, total	7782-50-5	1.38	0.10	mg/L	E326-H/EO	-	14-Jan-2026	2414961
Chlorine, free	7782-50-5	1.21	0.10	mg/L	E327-H/EO	-	14-Jan-2026	2414960
Chloramines, total (as Cl ₂)	----	<0.20	0.20	mg/L	EC326/EO	-	15-Jan-2026	-
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	15-Jan-2026	2418012
Sulfide, total (as H ₂ S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	15-Jan-2026	2418012
Ion Balance								
Ion balance (cations/anions)	----	98.8	0.010	%	EC101/EO	-	14-Jan-2026	-
Total Metals								
Aluminum, total	7429-90-5	0.0126	0.0030	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Arsenic, total	7440-38-2	0.00013	0.00010	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Barium, total	7440-39-3	0.0188	0.00010	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Boron, total	7440-42-8	0.016	0.010	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Cadmium, total	7440-43-9	<0.0050	0.0050	µg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Calcium, total	7440-70-2	11.7	0.050	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Copper, total	7440-50-8	0.00148	0.00050	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Iron, total	7439-89-6	<0.010	0.010	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Lead, total	7439-92-1	<0.050	0.050	µg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Magnesium, total	7439-95-4	3.39	0.0050	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525



Analytical Results

FC2600094-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan - Willy's

Client sampling date / time: 12-Jan-2026 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Manganese, total	7439-96-5	0.00484	0.00010	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Mercury, total	7439-97-6	<0.0050	0.0050	µg/L	E508/EO	15-Jan-2026	15-Jan-2026	2417903
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Selenium, total	7782-49-2	<0.050	0.050	µg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Silver, total	7440-22-4	<0.010	0.010	µg/L	E420/EO	14-Jan-2026	16-Jan-2026	2416525
Sodium, total	7440-23-5	16.7	0.050	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Strontium, total	7440-24-6	0.0747	0.00020	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Uranium, total	7440-61-1	<0.010	0.010	µg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	14-Jan-2026	14-Jan-2026	2416525
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0108	0.0010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Arsenic, dissolved	7440-38-2	0.00013	0.00010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Barium, dissolved	7440-39-3	0.0191	0.00010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Bismuth, dissolved	7440-69-9	<0.050	0.050	µg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Boron, dissolved	7440-42-8	0.016	0.010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Cadmium, dissolved	7440-43-9	<0.0050	0.0050	µg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Calcium, dissolved	7440-70-2	11.0	0.050	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Cesium, dissolved	7440-46-2	<0.010	0.010	µg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Copper, dissolved	7440-50-8	0.00116	0.00020	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Lead, dissolved	7439-92-1	<0.050	0.050	µg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Lithium, dissolved	7439-93-2	0.0028	0.0010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Magnesium, dissolved	7439-95-4	3.39	0.0050	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Manganese, dissolved	7439-96-5	0.00136	0.00010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Molybdenum, dissolved	7439-98-7	0.000252	0.000050	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Potassium, dissolved	7440-09-7	0.998	0.050	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Rubidium, dissolved	7440-17-7	0.00092	0.00020	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Selenium, dissolved	7782-49-2	<0.050	0.050	µg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Silicon, dissolved	7440-21-3	2.14	0.050	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421/EO	14-Jan-2026	16-Jan-2026	2416872
Sodium, dissolved	7440-23-5	16.6	0.050	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Strontium, dissolved	7440-24-6	0.0762	0.00020	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Sulfur, dissolved	7704-34-9	2.17	0.50	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Thallium, dissolved	7440-28-0	<0.010	0.010	µg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872



Analytical Results

FC2600094-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan - Willy's

Client sampling date / time: 12-Jan-2026 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Uranium, dissolved	7440-61-1	<0.010	0.010	µg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Zinc, dissolved	7440-66-6	0.0012	0.0010	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	14-Jan-2026	14-Jan-2026	2416872
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	14-Jan-2026	2416872
Aggregate Organics								
Nitritotriacetic acid [NTA]	139-13-9	<0.40	0.40	mg/L	E394/WT	-	23-Jan-2026	2427826
Volatile Organic Compounds								
Benzene	71-43-2	<0.50	0.50	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Carbon tetrachloride	56-23-5	<0.50	0.50	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Chlorobenzene	108-90-7	<1.0	1.0	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Dichlorobenzene, 1,4-	106-46-7	<1.0	1.0	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Dichloroethane, 1,2-	107-06-2	<1.0	1.0	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Dioxane, 1,4-	123-91-1	<20	20	µg/L	E611I/WT	16-Jan-2026	16-Jan-2026	2419720
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Tetrachloroethylene	127-18-4	<1.0	1.0	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Toluene	108-88-3	<0.50	0.50	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Trichloroethylene	79-01-6	<1.0	1.0	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Vinyl chloride	75-01-4	<1.0	1.0	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.9	1.0	%	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Bromofluorobenzene, 4-	460-00-4	101	1.0	%	E611I/WT	16-Jan-2026	16-Jan-2026	2419720
Difluorobenzene, 1,4-	540-36-3	110	1.0	%	E611E/EO	14-Jan-2026	15-Jan-2026	2416734
Difluorobenzene, 1,4-	540-36-3	98.6	1.0	%	E611I/WT	16-Jan-2026	16-Jan-2026	2419720
Polycyclic Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	15-Jan-2026	15-Jan-2026	2418114
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	94.7	0.1	%	E641A/EO	15-Jan-2026	15-Jan-2026	2418114
Naphthalene-d8	1146-65-2	98.8	0.1	%	E641A/EO	15-Jan-2026	15-Jan-2026	2418114
Phenanthrene-d10	1517-22-2	101	0.1	%	E641A/EO	15-Jan-2026	15-Jan-2026	2418114
Disinfectant By-Products								
Bromate	15541-45-4	<0.30	0.30	µg/L	E722A/WT	16-Jan-2026	16-Jan-2026	2419419
Chlorate	14866-68-3	0.077	0.010	mg/L	E409.CLO3/WT	15-Jan-2026	15-Jan-2026	2418253
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	15-Jan-2026	15-Jan-2026	2418254
Semi-Volatile Organics								
Nitrosodimethylamine, N- [NDMA]	62-75-9	<0.00090	0.00090	µg/L	E725-T/WT	29-Jan-2026	30-Jan-2026	2434073
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	75.8	1.0	%	E625A/WT	16-Jan-2026	16-Jan-2026	2419560
Nitrobenzene-d5	4165-60-0	115	1.0	%	E625A/WT	16-Jan-2026	16-Jan-2026	2419560
Terphenyl-d14, p-	1718-51-0	89.2	1.0	%	E625A/WT	16-Jan-2026	16-Jan-2026	2419560
Chlorinated Phenolics								



Analytical Results

FC2600094-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan - Willy's

Client sampling date / time: 12-Jan-2026 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	16-Jan-2026	16-Jan-2026	2419560
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	16-Jan-2026	16-Jan-2026	2419560
Tetrachlorophenol, 2,3,4,6-	58-90-2	<0.50	0.50	µg/L	E625A/WT	16-Jan-2026	16-Jan-2026	2419560
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	16-Jan-2026	16-Jan-2026	2419560
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	91.6	0.50	%	E625A/WT	16-Jan-2026	16-Jan-2026	2419560
Organochlorine Pesticides Surrogates								
Decachlorobiphenyl	2051-24-3	120	0.10	%	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Tetrachloro-m-xylene	877-09-8	132 SUR-N.D.	0.10	%	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Herbicides								
Alachlor	15972-60-8	<0.050	0.050	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Atrazine	1912-24-9	<0.050	0.050	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Atrazine + metabolites, total	----	<0.45	0.45	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Atrazine + N-dealkylated metabolites	----	<0.10	0.10	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Atrazine-desethyl	6190-65-4	<0.025	0.025	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Cyanazine	21725-46-2	<0.10	0.10	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Diclofop-methyl	51338-27-3	<0.10	0.10	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Dinoseb	88-85-7	<0.050	0.050	µg/L	E706A/WT	16-Jan-2026	16-Jan-2026	2420100
Diuron	330-54-1	<0.050	0.050	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Metolachlor	51218-45-2	<0.025	0.025	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Metribuzin	21087-64-9	<0.10	0.10	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Prometryn	7287-19-6	<0.025	0.025	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Simazine	122-34-9	<0.10	0.10	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Triallate	2303-17-5	<0.10	0.10	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Trifluralin	1582-09-8	<0.10	0.10	µg/L	E756/WT	19-Jan-2026	20-Jan-2026	2422189
Herbicides Surrogates								
Dichlorophenylacetic acid, 2,4-	19719-28-9	95.9	1.0	%	E706A/WT	16-Jan-2026	16-Jan-2026	2420100
Insecticides								
Aldicarb	116-06-3	<0.10	0.10	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Azinphos-methyl	86-50-0	<0.10	0.10	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Bendiocarb	22781-23-3	<0.025	0.025	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Carbaryl	63-25-2	<0.050	0.050	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Carbofuran	1563-66-2	<0.025	0.025	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Chlorpyrifos	2921-88-2	<0.10	0.10	µg/L	E756/WT	19-Jan-2026	20-Jan-2026	2422189
Diazinon	333-41-5	<0.025	0.025	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Dimethoate	60-51-5	<0.050	0.050	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Malathion	121-75-5	<0.025	0.025	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Parathion	56-38-2	<0.10	0.10	µg/L	E756/WT	19-Jan-2026	20-Jan-2026	2422189
Phorate	298-02-2	<0.25	0.25	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Temephos	3383-96-8	<0.25	0.25	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Terbufos	13071-79-9	<0.50	0.50	µg/L	E755/WT	19-Jan-2026	19-Jan-2026	2422180
Pesticides								
Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]	94-74-6	<0.050	0.050	µg/L	E706A/WT	16-Jan-2026	16-Jan-2026	2420100
Aldrin	309-00-2	<0.0080	0.0080	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Aldrin + Dieldrin	----	<0.011	0.011	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399



Analytical Results

FC2600094-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan - Willy's

Client sampling date / time: 12-Jan-2026 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Pesticides								
Bromoxynil	1689-84-5	<0.050	0.050	µg/L	E706A/WT	16-Jan-2026	16-Jan-2026	2420100
Chlordane, cis- (alpha)	5103-71-9	<0.0080	0.0080	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Chlordane, total	57-74-9	<0.011	0.011	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Chlordane, trans- (gamma)	5103-74-2	<0.0080	0.0080	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
DDD, 2,4'-	53-19-0	<0.0040	0.0040	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
DDD, 4,4'-	72-54-8	<0.0040	0.0040	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
DDD, total	----	<0.0060	0.0060	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
DDE, 2,4'-	3424-82-6	<0.0040	0.0040	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
DDE, 4,4'-	72-55-9	<0.0040	0.0040	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
DDE, total	----	<0.0060	0.0060	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
DDT + metabolites, total	----	<0.010	0.010	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
DDT, 2,4'-	789-02-6	<0.0040	0.0040	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
DDT, 4,4'-	50-29-3	<0.0040	0.0040	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
DDT, total	----	<0.0060	0.0060	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Dicamba	1918-00-9	<0.10	0.10	µg/L	E706A/WT	16-Jan-2026	16-Jan-2026	2420100
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	94-75-7	<0.050	0.050	µg/L	E706A/WT	16-Jan-2026	16-Jan-2026	2420100
Dieldrin	60-57-1	<0.0080	0.0080	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Diquat (ion)	2764-72-9	<1.0	1.0	µg/L	E723A/WT	19-Jan-2026	19-Jan-2026	2421597
Glyphosate	1071-83-6	<1.0	1.0	µg/L	E716A/WT	20-Jan-2026	21-Jan-2026	2422872
Heptachlor	76-44-8	<0.0080	0.0080	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Heptachlor + Heptachlor epoxide	n/a	<0.011	0.011	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Heptachlor epoxide	1024-57-3	<0.0080	0.0080	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	<0.0080	0.0080	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Methoxychlor	72-43-5	<0.0080	0.0080	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Oxychlordan	27304-13-8	<0.0080	0.0080	µg/L	E660F/WT	15-Jan-2026	16-Jan-2026	2418399
Paraquat (as dichloride)	1910-42-5	<1.0	1.0	µg/L	E723A/WT	19-Jan-2026	19-Jan-2026	2421597
Picloram	1918-02-1	<0.50 ^{DLM}	0.50	µg/L	E706A/WT	16-Jan-2026	16-Jan-2026	2420100
Trichlorophenoxyacetic acid, 2,4,5- [2,4,5-T]	93-76-5	<0.050	0.050	µg/L	E706A/WT	16-Jan-2026	16-Jan-2026	2420100
Nitrosamines Surrogates								
Nitrosodimethylamine-d6, N-	17829-05-9	106	0.00090	%	E725-T/WT	29-Jan-2026	30-Jan-2026	2434073

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