

CERTIFICATE OF ANALYSIS

REPORTED TO	Stettler, Town of (Alberta) 5031 - 50 Street Stettler, AB T0C 2L0	WORK ORDER	25G0294
ATTENTION	Grant McQuay	RECEIVED / TEMP REPORTED	2025-07-03 09:30 / 16.3°C 2025-07-25 10:29
PO NUMBER			
PROJECT	Distribution System - Biannual Analysis		
PROJECT INFO			

Introduction:

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Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



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Ahead of the Curve



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If you have any questions or concerns, please contact me at hhannaoui@caro.ca

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TEST RESULTS

REPORTED TO PROJECT Stettler, Town of (Alberta)
Distribution System - Biannual Analysis

WORK ORDER REPORTED 25G0294
2025-07-25 10:29

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
GT Hydraulics (25G0294-01) Matrix: Water Sampled: 2025-07-02 11:25						
Acid Herbicides						
2,4-D	< 0.10	MAC = 100	0.10	µg/L	2025-07-17	HT1
2,4-DB	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
Dichlorprop (2,4-DP)	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
Fenoprop	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
MCPA	< 0.02	MAC = 350	0.02	µg/L	2025-07-17	HT1
MCPB	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
2,4,5-T	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
MCP	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
Acifluorfen	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
Bentazon	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
Chloramben	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
Dicamba	< 0.10	MAC = 110	0.10	µg/L	2025-07-17	HT1
Triclopyr	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
Clopyralid	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
Bromoxynil	< 0.10	MAC = 30	0.10	µg/L	2025-07-17	HT1
Dinoseb	< 0.10	N/A	0.10	µg/L	2025-07-17	HT1
Anions						
Bromate	< 0.005	MAC = 0.01	0.005	mg/L	2025-07-09	
Chloride	19.9	AO ≤ 250	0.50	mg/L	2025-07-04	
Fluoride	0.66	MAC = 1.5	0.10	mg/L	2025-07-04	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	2025-07-04	
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2025-07-04	
Sulfate	66.2	AO ≤ 500	1.0	mg/L	2025-07-04	
Calculated Parameters						
Chloramines	1.42	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	0.0493	MAC = 0.1	0.00400	mg/L	N/A	
Ion Balance	94.2	N/A		%	N/A	
Hardness, Total (as CaCO ₃)	185	None Required	0.541	mg/L	N/A	
Nitrate+Nitrite (as N)	< 0.0500	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	256	AO ≤ 500	2.00	mg/L	N/A	
Carbamates						
Aldicarb	< 0.0010	N/A	0.0010	mg/L	2025-07-10	
Bendiocarb	< 0.0010	N/A	0.0010	mg/L	2025-07-10	
Chlorinated Phenols						
2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2025-07-09	
3 & 4-Chlorophenol	< 0.10	N/A	0.10	µg/L	2025-07-09	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2025-07-09	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-07-09	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-07-09	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-07-09	

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GT Hydraulics (25G0294-01) | Matrix: Water | Sampled: 2025-07-02 11:25, Continued

Chlorinated Phenols, Continued

3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-07-09	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-09	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-09	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-09	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-09	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2025-07-09	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-09	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-09	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2025-07-09	
Surrogate: 2,4-Dibromophenol	69		60-130	%	2025-07-09	
Surrogate: 2,4,6-Tribromophenol	70		60-130	%	2025-07-09	
Surrogate: Phenol-d6	118		70-130	%	2025-07-09	

General Parameters

Alkalinity, Total (as CaCO ₃)	142	N/A	2.0	mg/L	2025-07-07	
Bicarbonate (HCO ₃)	174	N/A	2.5	mg/L	2025-07-07	
Carbonate (CO ₃)	< 2.0	N/A	2.0	mg/L	2025-07-07	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	2025-07-07	
Ammonia, Total (as N)	0.351	None Required	0.050	mg/L	2025-07-04	
Carbon, Total Organic	2.94	N/A	0.50	mg/L	2025-07-08	
Chlorine, Total	1.71	None Required	0.02	mg/L	2025-07-09	HT2
Chlorine, Free	0.29	N/A	0.02	mg/L	2025-07-09	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2025-07-09	HT1
Conductivity (EC)	438	N/A	2.0	µS/cm	2025-07-07	
Cyanide, Total	0.0026	MAC = 0.2	0.0020	mg/L	2025-07-09	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	2025-07-07	
pH	8.14	7.0-10.5	0.10	pH units	2025-07-07	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2025-07-04	
Turbidity	0.16	OG < 1	0.10	NTU	2025-07-04	

Microbiological Parameters

Microcystin, total	< 0.05	MAC = 1.5	0.05	µg/L	2025-07-08	
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Miscellaneous Herbicides

Diquat	< 0.0100	MAC = 0.05	0.0100	mg/L	2025-07-09	
Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	2025-07-10	

Miscellaneous Organics

N-Nitrosodimethylamine	< 0.000009	MAC = 0.00004	0.000009	mg/L	2025-07-11	
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Perfluorinated Compounds

Perfluorooctanesulfonate (PFOS)	< 0.200	0.6	0.200	µg/L	2025-07-10	
Perfluorooctanoic acid (PFOA)	< 0.200	0.2	0.200	µg/L	2025-07-10	
Perfluoropentanoic acid (PFPeA)	< 0.200	N/A	0.200	µg/L	2025-07-10	
Perfluorobutanesulfonate (PFBS)	< 10.0	N/A	10.0	µg/L	2025-07-10	

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GT Hydraulics (25G0294-01) | Matrix: Water | Sampled: 2025-07-02 11:25, Continued

Perfluorinated Compounds, Continued

Perfluorohexanoic acid (PFHxA)	< 0.200	N/A	0.200	µg/L	2025-07-10	
Perfluoroheptanoic acid (PFHpA)	< 0.200	N/A	0.200	µg/L	2025-07-10	
Perfluorohexanesulfonate (PFHxS)	< 0.200	N/A	0.200	µg/L	2025-07-10	
Perfluoroheptane sulfonate (PFHpS)	< 0.200	N/A	0.200	µg/L	2025-07-10	
Perfluorononanoic acid (PFNA)	< 0.020	N/A	0.020	µg/L	2025-07-10	
Perfluorodecanoic acid (PFDA)	< 0.200	N/A	0.200	µg/L	2025-07-10	
Perfluoroundecanoic acid (PFUnA)	< 0.200	N/A	0.200	µg/L	2025-07-10	
Perfluorodecanesulfonate (PFDS)	< 0.200	N/A	0.200	µg/L	2025-07-10	
Perfluorododecanoic acid (PFDoA)	< 0.200	N/A	0.200	µg/L	2025-07-10	
Perfluorotetradecanoic acid (PFTeA)	< 1.00	N/A	1.00	µg/L	2025-07-10	
Perfluorooctanesulfonamide (PFOSA)	< 1.00	N/A	1.00	µg/L	2025-07-10	
Perfluorotridecanoic acid (PFTrA)	< 1.00	N/A	1.00	µg/L	2025-07-10	
Perfluorobutanoic acid (PFBA)	< 25.0	N/A	25.0	µg/L	2025-07-10	
6:2 Fluorotelomer sulfonate (6:2FTS)	< 0.200	N/A	0.200	µg/L	2025-07-10	
8:2 Fluorotelomer sulfonate (8:2FTS)	< 0.200	N/A	0.200	µg/L	2025-07-10	

Pesticides, Herbicides, and Fungicides

Alachlor	< 0.100	N/A	0.100	µg/L	2025-07-14	
Aldrin	< 0.006	N/A	0.006	µg/L	2025-07-14	
Atrazine	< 0.100	N/A	0.100	µg/L	2025-07-14	
Atrazine-desethyl	< 0.100	N/A	0.100	µg/L	2025-07-14	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2025-07-14	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2025-07-14	
beta-BHC	< 0.050	N/A	0.050	µg/L	2025-07-14	
delta-BHC	< 0.050	N/A	0.050	µg/L	2025-07-14	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2025-07-14	
Bromacil	< 0.100	N/A	0.100	µg/L	2025-07-14	
Bromoxynil	< 0.200	MAC = 30	0.200	µg/L	2025-07-14	
Butachlor	< 0.020	N/A	0.020	µg/L	2025-07-14	
Captan	< 0.100	N/A	0.100	µg/L	2025-07-14	
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2025-07-14	
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2025-07-14	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2025-07-14	
Cyanazine	< 0.100	N/A	0.100	µg/L	2025-07-14	
DDT, Total	< 0.010	N/A	0.010	µg/L	2025-07-14	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2025-07-14	
Diclofop-methyl	< 0.100	N/A	0.100	µg/L	2025-07-14	
Dieldrin	< 0.010	N/A	0.010	µg/L	2025-07-14	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2025-07-14	
Disulfoton	< 0.100	N/A	0.100	µg/L	2025-07-14	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2025-07-14	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2025-07-14	
Endrin	< 0.020	N/A	0.020	µg/L	2025-07-14	

TEST RESULTS

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2025-07-25 10:29

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GT Hydraulics (25G0294-01) | Matrix: Water | Sampled: 2025-07-02 11:25, Continued

Pesticides, Herbicides, and Fungicides, Continued

Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2025-07-14	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2025-07-14	
Fenchlorphos (Ronnell)	< 0.100	N/A	0.100	µg/L	2025-07-14	
Heptachlor	< 0.010	N/A	0.010	µg/L	2025-07-14	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2025-07-14	
Linuron	< 0.050	N/A	0.050	µg/L	2025-07-14	
Malathion	< 0.100	MAC = 290	0.100	µg/L	2025-07-14	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2025-07-14	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2025-07-14	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2025-07-14	
Parathion	< 0.100	N/A	0.100	µg/L	2025-07-14	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2025-07-14	
Permethrin	< 0.010	N/A	0.010	µg/L	2025-07-14	
Prometon	< 0.300	N/A	0.300	µg/L	2025-07-14	
Prometryne	< 0.100	N/A	0.100	µg/L	2025-07-14	
Sulfotep	< 0.100	N/A	0.100	µg/L	2025-07-14	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2025-07-14	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2025-07-14	
Triallate	< 0.100	N/A	0.100	µg/L	2025-07-14	
Surrogate: Tributyl Phosphate	102		50-140	%	2025-07-14	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	69		50-140	%	2025-07-14	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	N/A	0.050	µg/L	2025-07-03	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2025-07-03	
Acridine	< 0.050	N/A	0.050	µg/L	2025-07-03	
Anthracene	< 0.010	N/A	0.010	µg/L	2025-07-03	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2025-07-03	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2025-07-03	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2025-07-03	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2025-07-03	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2025-07-03	
2-Chloronaphthalene	< 0.100	N/A	0.100	µg/L	2025-07-03	
Chrysene	< 0.050	N/A	0.050	µg/L	2025-07-03	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2025-07-03	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2025-07-03	
Fluorene	< 0.050	N/A	0.050	µg/L	2025-07-03	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2025-07-03	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2025-07-03	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2025-07-03	
Naphthalene	< 0.200	N/A	0.200	µg/L	2025-07-03	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2025-07-03	
Pyrene	< 0.020	N/A	0.020	µg/L	2025-07-03	

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GT Hydraulics (25G0294-01) | Matrix: Water | Sampled: 2025-07-02 11:25, Continued

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Quinoline	< 0.050	N/A	0.050	µg/L	2025-07-03	
Surrogate: Naphthalene-d8	80		50-140	%	2025-07-03	
Surrogate: Perylene-d12	85		50-140	%	2025-07-03	

Total Metals

Aluminum, total	0.0520	OG < 0.1	0.0050	mg/L	2025-07-07	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-07-07	
Arsenic, total	0.00056	MAC = 0.01	0.00050	mg/L	2025-07-07	
Barium, total	0.0931	MAC = 2	0.0050	mg/L	2025-07-07	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-07-07	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2025-07-07	
Calcium, total	45.7	None Required	0.20	mg/L	2025-07-07	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-07-07	
Copper, total	0.0103	MAC = 2	0.00040	mg/L	2025-07-07	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-07-07	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-07-07	
Magnesium, total	17.2	None Required	0.010	mg/L	2025-07-07	
Manganese, total	0.00238	MAC = 0.12	0.00020	mg/L	2025-07-07	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2025-07-08	
Potassium, total	2.41	N/A	0.10	mg/L	2025-07-07	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-07-07	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2025-07-07	
Sodium, total	18.0	AO ≤ 200	0.10	mg/L	2025-07-07	
Strontium, total	0.366	MAC = 7	0.0010	mg/L	2025-07-07	
Uranium, total	0.000065	MAC = 0.02	0.000020	mg/L	2025-07-07	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-07-07	

Volatile Organic Compounds (VOC)

Benzene	< 0.5	MAC = 5	0.5	µg/L	2025-07-04	
Bromodichloromethane	3.9	N/A	1.0	µg/L	2025-07-04	
Bromoform	< 1.0	N/A	1.0	µg/L	2025-07-04	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2025-07-04	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2025-07-04	
Chloroethane	< 2.0	N/A	2.0	µg/L	2025-07-04	
Chloroform	45.4	N/A	1.0	µg/L	2025-07-04	
Dibromochloromethane	< 1.0	N/A	1.0	µg/L	2025-07-04	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2025-07-04	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2025-07-04	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2025-07-04	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2025-07-04	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2025-07-04	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2025-07-04	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2025-07-04	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2025-07-04	



TEST RESULTS

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GT Hydraulics (25G0294-01) Matrix: Water Sampled: 2025-07-02 11:25, Continued						
Volatile Organic Compounds (VOC), Continued						
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2025-07-04	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2025-07-04	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2025-07-04	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2025-07-04	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2025-07-04	
Styrene	< 1.0	N/A	1.0	µg/L	2025-07-04	
1,1,2,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2025-07-04	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2025-07-04	
Toluene	< 0.5	MAC = 60	0.5	µg/L	2025-07-04	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2025-07-04	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2025-07-04	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2025-07-04	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2025-07-04	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2025-07-04	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2025-07-04	
Surrogate: Toluene-d8	108		70-130	%	2025-07-04	
Surrogate: 4-Bromofluorobenzene	96		70-130	%	2025-07-04	

Sample Qualifiers:	
HT1	The sample was prepared and/or analyzed past the recommended holding time.
HT2	The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

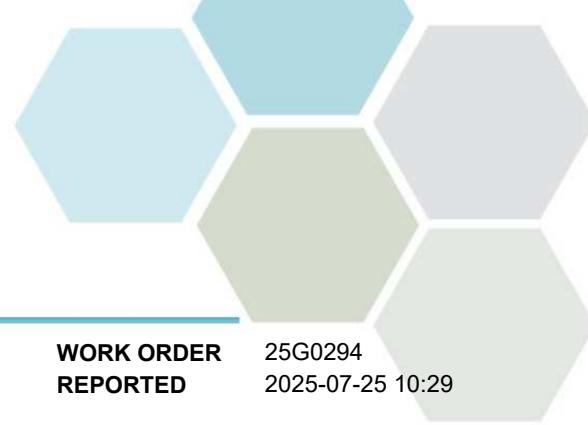
APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Stettler, Town of (Alberta)
Distribution System - Biannual Analysis

WORK ORDER REPORTED 25G0294
2025-07-25 10:29

Analysis Description	Method Ref.	Technique	Accredited	Location
Acid Herbicides in Water in Water	In-House	N/A	✓	Richmond
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Edmonton
Ammonia, Total in Water	SM 4500-NH3 D* (2021)	Ion Selective Electrode	✓	Edmonton
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Edmonton
Bromate in Water	SM 4110 B (2020)	Ion Chromatography	✓	Sublet
Carbamates in Water	EPA 531.2*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	✓	Richmond
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2021)	Colorimetry (DPD)	✓	Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2021)	Colorimetry (DPD)	✓	Edmonton
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Edmonton
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Edmonton
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Cyanobacterial Toxins in Water	EPA 546*	Adda Enzyme-Linked Immunosorbent Assay (ELISA)	✓	Sublet
Diquat/Paraquat in Water	EPA 549.2*	Liquid-Solid Extraction and HPLC-DAD	✓	Richmond
Glyphosate in Water	EPA 547*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	✓	Richmond
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Ion Balance in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitrate+Nitrite in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Nitritotriacetic Acid in Water	EPA 430.1	Manual Colorimetry (Zinc-Zincon)	✓	Edmonton
N-Nitrosodimethylamine in Water	In-House	N/A	✓	Sublet
Perfluorinated Compounds in Water	ASTM D7979-17	LC-MS/MS	✓	Richmond
Pesticides in Water	EPA 3510C* / EPA 8270D*	Liquid-Liquid DCM Extraction (B/N) / GC-MSD (SIM)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Edmonton
Phenols, Chlorinated in Water	EPA 3510C* / EPA 8270D	Liquid-Liquid DCM Extraction (Acidic) / GC-MSD (SIM)	✓	Richmond
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MSD (SIM)		Edmonton
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E	✓	N/A
Sulfide, Total in Water	SM 4500-S2 D* (2021)	Colorimetry (Methylene Blue)	✓	Edmonton
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Edmonton
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Edmonton

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method



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Glossary of Terms:

RL	Reporting Limit (default)
%	Percent
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µg/L	Micrograms per litre
µS/cm	Microsiemens per centimetre
ASTM	ASTM International Test Methods
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

General Comments:

The results in this report apply to samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any liability is limited to the cost of analysis. CARO will dispose of all samples within 30 days of sample receipt, unless otherwise agreed. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Results in **red** indicate values above the regulatory limits where these have been included. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: hhannaoui@caro.ca

Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.