CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO	Stettler, Town of (Alberta)	**WORK ORDER**	21G0766
PROJECT	Distribution System - Biannual Analysis	**REPORTED**	2021-07-21 16:35

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
GT Hydraulics (21G0766-01) | Matrix: Water | Sampled: 2021-07-07 11:45						
Acid Herbicides						
2,4-D	< 0.10	MAC = 100	0.10	µg/L	2021-07-14	
MCPA	< 0.02	MAC = 100	0.02	µg/L	2021-07-14	
2,4,5-T	< 0.10	N/A	0.10	µg/L	2021-07-14	
Dicamba	< 0.10	MAC = 120	0.10	µg/L	2021-07-14	
Picloram	< 0.10	MAC = 190	0.10	µg/L	2021-07-14	
Dinoseb	< 0.10	N/A	0.10	µg/L	2021-07-14	
Anions						
Bromate	< 0.010	MAC = 0.01	0.010	mg/L	2021-07-21	
Chloride	**8.26**	AO ≤ 250	0.50	mg/L	2021-07-08	
Fluoride	**0.62**	MAC = 1.5	0.10	mg/L	2021-07-08	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	2021-07-08	
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2021-07-08	
Sulfate	**68.7**	AO ≤ 500	1.0	mg/L	2021-07-08	
Calculated Parameters						
Chloramines	**1.53**	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	**0.0561**	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO3)	**193**	None Required	0.541	mg/L	N/A	
Solids, Total Dissolved	**257**	AO ≤ 500	3.35	mg/L	N/A	
Chlorinated Phenols						
2,4-Dichlorophenol	< 0.00020	AO ≤ 0.0003	0.00020	mg/L	2021-07-15	
2,4,6-Trichlorophenol	< 0.00050	AO ≤ 0.002	0.00050	mg/L	2021-07-15	
2,3,4,6-Tetrachlorophenol	< 0.00050	AO ≤ 0.001	0.00050	mg/L	2021-07-15	
Pentachlorophenol	< 0.00050	AO ≤ 0.03	0.00050	mg/L	2021-07-15	
General Parameters						
Alkalinity, Total (as CaCO3)	**153**	N/A	2.0	mg/L	2021-07-13	
Bicarbonate (HCO3)	**187**	N/A	2.0	mg/L	2021-07-13	
Carbonate (CO3)	< 2.0	N/A	2.0	mg/L	2021-07-13	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	2021-07-13	
Ammonia, Total (as N)	**0.454**	None Required	0.050	mg/L	2021-07-12	
Carbon, Total Organic	**2.70**	N/A	0.50	mg/L	2021-07-13	
Chlorine, Total	**1.63**	None Required	0.02	mg/L	2021-07-09	HT2
Chlorine, Free	**0.10**	N/A	0.02	mg/L	2021-07-09	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2021-07-09	
Conductivity (EC)	**441**	N/A	2.0	µS/cm	2021-07-13	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2021-07-09	
Nitrilotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	2021-07-13	
pH	**7.57**	7.0-10.5	0.10	pH units	2021-07-13	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2021-07-12	
Turbidity	**0.63**	OG < 1	0.10	NTU	2021-07-09	
Haloacetic Acids						

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO	Stettler, Town of (Alberta)	**WORK ORDER**	21G0766
PROJECT	Distribution System - Biannual Analysis	**REPORTED**	2021-07-21 16:35

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
GT Hydraulics (21G0766-01) | Matrix: Water | Sampled: 2021-07-07 11:45, Continued						
Haloacetic Acids, Continued						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-16	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-16	
Dichloroacetic Acid	**0.0285**	N/A	0.0020	mg/L	2021-07-16	
Trichloroacetic Acid	**0.0191**	N/A	0.0020	mg/L	2021-07-16	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-16	
Total Haloacetic Acids (HAA5)	**0.0476**	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	*105*		*70-130*	*%*	*2021-07-16*	
Miscellaneous Herbicides						
Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	2021-07-19	
Pesticides, Herbicides, and Fungicides						
Atrazine and metabolites	< 0.000100	MAC = 0.005	0.000100	mg/L	2021-07-17	
Azinphos-methyl	< 0.000200	MAC = 0.02	0.000200	mg/L	2021-07-17	
Bromoxynil	< 0.000200	MAC = 0.005	0.000200	mg/L	2021-07-17	
Chlorpyrifos	< 0.000010	MAC = 0.09	0.000010	mg/L	2021-07-17	
Cyanazine	< 0.000100	N/A	0.000100	mg/L	2021-07-17	
Diazinon	< 0.000020	MAC = 0.02	0.000020	mg/L	2021-07-17	
Diclofop-methyl	< 0.000100	MAC = 0.009	0.000100	mg/L	2021-07-17	
Dimethoate	< 0.000200	MAC = 0.02	0.000200	mg/L	2021-07-17	
Diuron	< 0.000200	MAC = 0.15	0.000200	mg/L	2021-07-17	
Malathion	< 0.000100	MAC = 0.19	0.000100	mg/L	2021-07-17	
Methoxychlor	< 0.000050	N/A	0.000050	mg/L	2021-07-17	
Metolachlor	< 0.000100	MAC = 0.05	0.000100	mg/L	2021-07-17	
Metribuzin	< 0.000200	MAC = 0.08	0.000200	mg/L	2021-07-17	
Phorate	< 0.000100	MAC = 0.002	0.000100	mg/L	2021-07-17	
Simazine	< 0.000200	MAC = 0.01	0.000200	mg/L	2021-07-17	
Terbufos	< 0.000100	MAC = 0.001	0.000100	mg/L	2021-07-17	
Triallate	< 0.000100	N/A	0.000100	mg/L	2021-07-17	
Trifluralin	< 0.000200	MAC = 0.045	0.000200	mg/L	2021-07-17	
Polycyclic Aromatic Hydrocarbons (PAH)						
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2021-07-14	
Total Metals						
Aluminum, total	**0.0906**	OG < 0.1	0.0050	mg/L	2021-07-14	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2021-07-14	
Arsenic, total	**0.00053**	MAC = 0.01	0.00050	mg/L	2021-07-14	
Barium, total	**0.0986**	MAC = 2	0.0050	mg/L	2021-07-14	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2021-07-14	
Cadmium, total	< 0.010	MAC = 5	0.010	µg/L	2021-07-14	
Calcium, total	**47.1**	None Required	0.20	mg/L	2021-07-14	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-07-14	
Copper, total	**0.00616**	MAC = 2	0.00040	mg/L	2021-07-14	

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO	Stettler, Town of (Alberta)	**WORK ORDER**	21G0766
PROJECT	Distribution System - Biannual Analysis	**REPORTED**	2021-07-21 16:35

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
GT Hydraulics (21G0766-01) | Matrix: Water | Sampled: 2021-07-07 11:45, Continued						
Total Metals, Continued						
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2021-07-14	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2021-07-14	
Magnesium, total	**18.3**	None Required	0.010	mg/L	2021-07-14	
Manganese, total	**0.0161**	MAC = 0.12	0.00020	mg/L	2021-07-14	
Mercury, total	< 0.010	MAC = 1	0.010	µg/L	2021-07-13	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-07-14	
Silver, total	< 0.050	N/A	0.050	µg/L	2021-07-14	
Sodium, total	**19.3**	AO ≤ 200	0.10	mg/L	2021-07-14	
Uranium, total	**0.397**	MAC = 20	0.020	µg/L	2021-07-14	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2021-07-14	
Volatile Organic Compounds (VOC)						
Benzene	< 0.0005	MAC = 0.005	0.0005	mg/L	2021-07-13	
Bromodichloromethane	**0.0048**	N/A	0.0010	mg/L	2021-07-13	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2021-07-13	
Carbon tetrachloride	< 0.0005	MAC = 0.002	0.0005	mg/L	2021-07-13	
Monochlorobenzene	< 0.0010	AO ≤ 0.03	0.0010	mg/L	2021-07-13	
Chloroform	**0.0513**	N/A	0.0010	mg/L	2021-07-13	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2021-07-13	
1,2-Dichlorobenzene	< 0.0005	AO ≤ 0.003	0.0005	mg/L	2021-07-13	
1,4-Dichlorobenzene	< 0.0010	AO ≤ 0.001	0.0010	mg/L	2021-07-13	
1,2-Dichloroethane	< 0.0010	MAC = 0.005	0.0010	mg/L	2021-07-13	
1,1-Dichloroethylene	< 0.0010	MAC = 0.014	0.0010	mg/L	2021-07-13	
Dichloromethane	< 0.0030	MAC = 0.05	0.0030	mg/L	2021-07-13	
Ethylbenzene	< 0.0010	AO ≤ 0.0016	0.0010	mg/L	2021-07-13	
Methyl tert-butyl ether	< 0.0010	AO ≤ 0.015	0.0010	mg/L	2021-07-13	
Tetrachloroethylene	< 0.0010	MAC = 0.01	0.0010	mg/L	2021-07-13	
Toluene	< 0.0010	AO ≤ 0.024	0.0010	mg/L	2021-07-13	
Trichloroethylene	< 0.0010	MAC = 0.005	0.0010	mg/L	2021-07-13	
Vinyl chloride	< 0.0010	MAC = 0.002	0.0010	mg/L	2021-07-13	
Xylenes (total)	< 0.0020	AO ≤ 0.02	0.0020	mg/L	2021-07-13	
Town Shop (21G0766-02) | Matrix: Water | Sampled: 2021-07-07 11:06						
Calculated Parameters						
Total Trihalomethanes	**0.0768**	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-17	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-17	
Dichloroacetic Acid	**0.0273**	N/A	0.0020	mg/L	2021-07-17	
Trichloroacetic Acid	**0.0204**	N/A	0.0020	mg/L	2021-07-17	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-17	

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO	Stettler, Town of (Alberta)	**WORK ORDER**	21G0766
PROJECT	Distribution System - Biannual Analysis	**REPORTED**	2021-07-21 16:35

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Town Shop (21G0766-02) | Matrix: Water | Sampled: 2021-07-07 11:06, Continued						
Haloacetic Acids, Continued						
Total Haloacetic Acids (HAA5)	**0.0477**	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	*111*		*70-130*	%	*2021-07-17*	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	**0.0050**	N/A	0.0010	mg/L	2021-07-11	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2021-07-11	
Chloroform	**0.0672**	N/A	0.0010	mg/L	2021-07-11	
Dibromochloromethane	**0.0046**	N/A	0.0010	mg/L	2021-07-11	
Surrogate: Toluene-d8	*81*		*70-130*	%	*2021-07-11*	
Surrogate: 4-Bromofluorobenzene	*72*		*70-130*	%	*2021-07-11*	
Turtle Club (21G0766-03) | Matrix: Water | Sampled: 2021-07-07 11:15						
Calculated Parameters						
Total Trihalomethanes	**0.0638**	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-17	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-17	
Dichloroacetic Acid	**0.0298**	N/A	0.0020	mg/L	2021-07-17	
Trichloroacetic Acid	**0.0196**	N/A	0.0020	mg/L	2021-07-17	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-17	
Total Haloacetic Acids (HAA5)	**0.0494**	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	*107*		*70-130*	%	*2021-07-17*	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	**0.0044**	N/A	0.0010	mg/L	2021-07-11	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2021-07-11	
Chloroform	**0.0552**	N/A	0.0010	mg/L	2021-07-11	
Dibromochloromethane	**0.0042**	N/A	0.0010	mg/L	2021-07-11	
Surrogate: Toluene-d8	*79*		*70-130*	%	*2021-07-11*	
Surrogate: 4-Bromofluorobenzene	*67*		*70-130*	%	*2021-07-11*	S02

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO Stettler, Town of (Alberta)
PROJECT Stettler WTP

WORK ORDER 21G0791
REPORTED 2021-07-19 16:19

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated #1 (21G0791-01) | Matrix: Water | Sampled: 2021-07-06 09:15						
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-16	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-16	
Dichloroacetic Acid	**0.0261**	N/A	0.0020	mg/L	2021-07-16	
Trichloroacetic Acid	**0.0204**	N/A	0.0020	mg/L	2021-07-16	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2021-07-16	
Total Haloacetic Acids (HAA5)	**0.0465**	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	*124*		*70-130*	%	*2021-07-16*	
Treated #2 (21G0791-02) | Matrix: Water | Sampled: 2021-07-06 09:15						
Calculated Parameters						
Total Trihalomethanes	**0.0615**	MAC = 0.1	0.00400	mg/L	N/A	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	**0.0042**	N/A	0.0010	mg/L	2021-07-11	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2021-07-11	
Chloroform	**0.0532**	N/A	0.0010	mg/L	2021-07-11	
Dibromochloromethane	**0.0041**	N/A	0.0010	mg/L	2021-07-11	
Surrogate: Toluene-d8	*81*		*70-130*	%	*2021-07-11*	
Surrogate: 4-Bromofluorobenzene	*72*		*70-130*	%	*2021-07-11*	
Treated #3 (21G0791-03) | Matrix: Water | Sampled: 2021-07-06 09:15						
General Parameters						
Carbon, Total Organic	**2.34**	N/A	0.50	mg/L	2021-07-13	
Treated #4 (21G0791-04) | Matrix: Water | Sampled: 2021-07-06 09:15						
Anions						
Fluoride	**0.66**	MAC = 1.5	0.10	mg/L	2021-07-08	
Raw #1 (21G0791-05) | Matrix: Water | Sampled: 2021-07-06 09:50						
General Parameters						
Carbon, Total Organic	**3.59**	N/A	0.50	mg/L	2021-07-13	
Raw #2 (21G0791-06) | Matrix: Water | Sampled: 2021-07-06 09:50						
Anions						
Fluoride	**0.14**	MAC = 1.5	0.10	mg/L	2021-07-08	

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO Stettler, Town of (Alberta)
PROJECT Stettler WTP

WORK ORDER 21G0791
REPORTED 2021-07-19 16:19

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
River #1 (21G0791-07) | Matrix: Water | Sampled: 2021-07-06 11:05						
General Parameters						
Carbon, Total Organic	**2.90**	N/A	0.50	mg/L	2021-07-13	
Waste Pond #2 - Aluminum (21G0791-08) | Matrix: Water | Sampled: 2021-07-06 12:30						
Total Metals						
Aluminum, total	**1.99**	OG < 0.1	0.0050	mg/L	2021-07-14	
Waste Pond #2 (21G0791-09) | Matrix: Water | Sampled: 2021-07-06 12:30						
Calculated Parameters						
Ammonia, Un-Ionized (as N)	**0.009**	N/A	0.001	mg/L	2021-07-15	
General Parameters						
Ammonia, Total (as N)	**0.102**	None Required	0.050	mg/L	2021-07-12	
pH	**8.31**	7.0-10.5	0.10	pH units	2021-07-12	HT2
Solids, Total Suspended	**10.4**	N/A	2.0	mg/L	2021-07-10	
Temperature, at pH	**22.5**	N/A		°C	2021-07-12	HT2

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.