

CERTIFICATE OF ANALYSIS

REPORTED TO	Newell Regional Services Corporation P.O. Box 638 Brooks, AB T1R 1B6		
ATTENTION	Kole Steinley	WORK ORDER	23G2286
PO NUMBER	4977	RECEIVED / TEMP	2023-07-19 08:30 / 17.8°C
PROJECT	Schedule 4	REPORTED	2023-08-08 14:48
PROJECT INFO	Summer Analysis 2023/THM+HAA Quarte 3	COC NUMBER	11843

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



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

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

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TEST RESULTS

REPORTED TO PROJECT Newell Regional Services Corporation
Schedule 4

WORK ORDER REPORTED 23G2286
2023-08-08 14:48

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
WTP Header #1 (23G2286-01) Matrix: Water Sampled: 2023-07-17 11:05						
Acid Herbicides						
2,4-D	< 0.10	MAC = 100	0.10	µg/L	2023-07-25	
MCPA	< 0.02	MAC = 350	0.02	µg/L	2023-07-25	
2,4,5-T	< 0.10	N/A	0.10	µg/L	2023-07-25	
Dicamba	< 0.10	MAC = 110	0.10	µg/L	2023-07-25	
Picloram	< 0.10	MAC = 190	0.10	µg/L	2023-07-25	
Dinoseb	< 0.10	N/A	0.10	µg/L	2023-07-25	
Anions						
Bromate	< 0.010	MAC = 0.01	0.010	mg/L	2023-07-25	
Chlorate	< 0.50	MAC = 1	0.50	mg/L	2023-07-21	
Chloride	14.8	AO ≤ 250	0.50	mg/L	2023-07-21	
Chlorite	< 0.50	MAC = 1	0.50	mg/L	2023-07-21	
Fluoride	0.15	MAC = 1.5	0.10	mg/L	2023-07-21	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	2023-07-21	HT1
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2023-07-21	HT1
Sulfate	49.6	AO ≤ 500	1.0	mg/L	2023-07-21	
Calculated Parameters						
Chloramines	0.0700	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	0.0406	MAC = 0.1	0.00400	mg/L	N/A	
Ion Balance	108	N/A		%	N/A	
Hardness, Total (as CaCO ₃)	170	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	224	AO ≤ 500	2.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO ₃)	130	N/A	2.0	mg/L	2023-07-24	
Bicarbonate (HCO ₃)	158	N/A	2.0	mg/L	2023-07-24	
Carbonate (CO ₃)	< 2.0	N/A	2.0	mg/L	2023-07-24	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	2023-07-24	
Ammonia, Total (as N)	0.099	None Required	0.050	mg/L	2023-07-21	
Carbon, Total Organic	2.27	N/A	0.50	mg/L	2023-07-20	
Chlorine, Total	0.64	None Required	0.02	mg/L	2023-07-20	HT2
Chlorine, Free	0.57	N/A	0.02	mg/L	2023-07-20	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2023-07-20	
Conductivity (EC)	390	N/A	2.0	µS/cm	2023-07-24	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-07-22	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	2023-07-25	HT1
pH	7.60	7.0-10.5	0.10	pH units	2023-07-24	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2023-07-20	
Turbidity	0.11	OG < 1	0.10	NTU	2023-07-20	HT1
Microbiological Parameters						
Microcystin, total	< 0.05	MAC = 1.5	0.05	µg/L	2023-07-26	

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
WTP Header #1 (23G2286-01) Matrix: Water Sampled: 2023-07-17 11:05, Continued						
<i>Miscellaneous Herbicides</i>						
Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	2023-07-23	
<i>Miscellaneous Organics</i>						
N-Nitrosodimethylamine	< 0.000009	MAC = 0.00004	0.000009	mg/L	2023-08-02	
<i>Pesticides, Herbicides, and Fungicides</i>						
Alachlor	< 0.100	N/A	0.100	µg/L	2023-07-25	
Aldrin	< 0.006	N/A	0.006	µg/L	2023-07-25	
Atrazine and metabolites	< 0.500	MAC = 5	0.100	µg/L	2023-07-25	RA1
Azinphos-methyl	< 0.200	MAC = 20	0.200	µg/L	2023-07-25	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2023-07-25	
beta-BHC	< 0.050	N/A	0.050	µg/L	2023-07-25	
delta-BHC	< 0.050	N/A	0.050	µg/L	2023-07-25	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2023-07-25	
Bromacil	< 0.115	N/A	0.100	µg/L	2023-07-25	RA1
Bromoxynil	< 0.200	MAC = 30	0.200	µg/L	2023-07-25	
Butachlor	< 0.020	N/A	0.020	µg/L	2023-07-25	
Captan	< 0.100	N/A	0.100	µg/L	2023-07-25	
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2023-07-25	
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2023-07-25	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2023-07-25	
Cyanazine	< 0.700	N/A	0.100	µg/L	2023-07-25	RA1
DDT, Total	< 0.010	N/A	0.010	µg/L	2023-07-25	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2023-07-25	
Diazinon	< 0.040	MAC = 20	0.020	µg/L	2023-07-25	RA1
Dichlorvos	< 0.100	N/A	0.100	µg/L	2023-07-25	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2023-07-25	
Dieldrin	< 0.010	N/A	0.010	µg/L	2023-07-25	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2023-07-25	
Disulfoton	< 0.100	N/A	0.100	µg/L	2023-07-25	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2023-07-25	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2023-07-25	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2023-07-25	
Endrin	< 0.020	N/A	0.020	µg/L	2023-07-25	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2023-07-25	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2023-07-25	
Fenchlorphos (Ronnell)	< 0.100	N/A	0.100	µg/L	2023-07-25	
Heptachlor	< 0.010	N/A	0.010	µg/L	2023-07-25	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2023-07-25	
Linuron	< 0.050	N/A	0.050	µg/L	2023-07-25	
Malathion	< 0.100	MAC = 290	0.100	µg/L	2023-07-25	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2023-07-25	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2023-07-25	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2023-07-25	

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WTP Header #1 (23G2286-01) | Matrix: Water | Sampled: 2023-07-17 11:05, Continued

Pesticides, Herbicides, and Fungicides, Continued

Metribuzin	< 1.60	MAC = 80	0.200	µg/L	2023-07-25	RA1
Parathion	< 0.100	N/A	0.100	µg/L	2023-07-25	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2023-07-25	
Permethrin	< 0.013	N/A	0.010	µg/L	2023-07-25	RA1
Phorate	< 0.100	MAC = 2	0.100	µg/L	2023-07-25	
Prometon	< 1.20	N/A	0.300	µg/L	2023-07-25	RA1
Prometryne	< 0.100	N/A	0.100	µg/L	2023-07-25	
Simazine	< 2.00	MAC = 10	0.200	µg/L	2023-07-25	RA1
Sulfotep	< 0.100	N/A	0.100	µg/L	2023-07-25	
Tebuthiuron	< 2.00	N/A	0.200	µg/L	2023-07-25	RA1
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2023-07-25	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2023-07-25	
Triallate	< 0.100	N/A	0.100	µg/L	2023-07-25	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2023-07-25	
Surrogate: Tributyl Phosphate	117		50-140	%	2023-07-25	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	86		50-140	%	2023-07-25	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	N/A	0.050	µg/L	2023-07-25	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2023-07-25	
Anthracene	< 0.010	N/A	0.010	µg/L	2023-07-25	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2023-07-25	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2023-07-25	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2023-07-25	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2023-07-25	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2023-07-25	
2-Chloronaphthalene	< 0.100	N/A	0.100	µg/L	2023-07-25	
Chrysene	< 0.050	N/A	0.050	µg/L	2023-07-25	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2023-07-25	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2023-07-25	
Fluorene	< 0.050	N/A	0.050	µg/L	2023-07-25	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2023-07-25	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2023-07-25	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2023-07-25	
Naphthalene	< 0.200	N/A	0.200	µg/L	2023-07-25	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2023-07-25	
Pyrene	< 0.020	N/A	0.020	µg/L	2023-07-25	
Quinoline	< 0.050	N/A	0.050	µg/L	2023-07-25	
Surrogate: Naphthalene-d8	79		50-140	%	2023-07-25	
Surrogate: Perylene-d12	63		50-140	%	2023-07-25	

Total Metals

Aluminum, total	0.0645	OG < 0.1	0.0050	mg/L	2023-07-23	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-07-23	

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WTP Header #1 (23G2286-01) Matrix: Water Sampled: 2023-07-17 11:05, Continued						
<i>Total Metals, Continued</i>						
Arsenic, total	0.00174	MAC = 0.01	0.00050	mg/L	2023-07-23	
Barium, total	0.0689	MAC = 2	0.0050	mg/L	2023-07-23	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-07-23	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2023-07-23	
Calcium, total	39.1	None Required	0.20	mg/L	2023-07-23	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-07-23	
Copper, total	0.00050	MAC = 2	0.00040	mg/L	2023-07-23	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-07-23	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-07-23	
Magnesium, total	17.5	None Required	0.010	mg/L	2023-07-23	
Manganese, total	0.00130	MAC = 0.12	0.00020	mg/L	2023-07-23	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2023-07-24	
Potassium, total	1.91	N/A	0.10	mg/L	2023-07-23	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-07-23	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2023-07-23	
Sodium, total	21.8	AO ≤ 200	0.10	mg/L	2023-07-23	
Strontium, total	0.221	MAC = 7	0.0010	mg/L	2023-07-23	
Uranium, total	0.000673	MAC = 0.02	0.000020	mg/L	2023-07-23	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2023-07-23	

Volatile Organic Compounds (VOC)

Benzene	0.5	MAC = 5	0.5	µg/L	2023-07-22	
Bromodichloromethane	4.0	N/A	1.0	µg/L	2023-07-22	
Bromoform	< 1.0	N/A	1.0	µg/L	2023-07-22	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2023-07-22	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2023-07-22	
Chloroethane	< 2.0	N/A	2.0	µg/L	2023-07-22	
Chloroform	36.6	N/A	1.0	µg/L	2023-07-22	
Dibromochloromethane	< 1.0	N/A	1.0	µg/L	2023-07-22	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2023-07-22	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2023-07-22	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5	µg/L	2023-07-22	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2023-07-22	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2023-07-22	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2023-07-22	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2023-07-22	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0	µg/L	2023-07-22	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2023-07-22	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2023-07-22	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2023-07-22	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2023-07-22	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2023-07-22	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2023-07-22	

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WTP Header #1 (23G2286-01) | Matrix: Water | Sampled: 2023-07-17 11:05, Continued

Volatile Organic Compounds (VOC), Continued

Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2023-07-22	
Styrene	< 1.0	N/A	1.0	µg/L	2023-07-22	
1,1,2,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2023-07-22	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2023-07-22	
Toluene	< 0.5	MAC = 60	0.5	µg/L	2023-07-22	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2023-07-22	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2023-07-22	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2023-07-22	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2023-07-22	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2023-07-22	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2023-07-22	
Surrogate: Toluene-d8	91		70-130	%	2023-07-22	
Surrogate: 4-Bromofluorobenzene	106		70-130	%	2023-07-22	

Header #1 (23G2286-02) | Matrix: Water | Sampled: 2023-07-17 10:30

Calculated Parameters

Total Trihalomethanes	0.0452	MAC = 0.1	0.00400	mg/L	N/A	
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Haloacetic Acids

Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-07-25	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-07-25	
Dichloroacetic Acid	0.0171	N/A	0.0020	mg/L	2023-07-25	
Trichloroacetic Acid	0.0109	N/A	0.0020	mg/L	2023-07-25	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-07-25	
Total Haloacetic Acids (HAA5)	0.0280	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	111		70-130	%	2023-07-25	

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0038	N/A	0.0010	mg/L	2023-07-22	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2023-07-22	
Chloroform	0.0415	N/A	0.0010	mg/L	2023-07-22	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2023-07-22	
Surrogate: Toluene-d8	108		70-130	%	2023-07-22	
Surrogate: 4-Bromofluorobenzene	104		70-130	%	2023-07-22	

Header #2 (23G2286-03) | Matrix: Water | Sampled: 2023-07-17 10:40

Calculated Parameters

Total Trihalomethanes	0.0425	MAC = 0.1	0.00400	mg/L	N/A	
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Haloacetic Acids

Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-07-25	
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Header #2 (23G2286-03) | Matrix: Water | Sampled: 2023-07-17 10:40, Continued

Haloacetic Acids, Continued

Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-07-25	
Dichloroacetic Acid	0.0165	N/A	0.0020	mg/L	2023-07-25	
Trichloroacetic Acid	0.0097	N/A	0.0020	mg/L	2023-07-25	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-07-25	
Total Haloacetic Acids (HAA5)	0.0262	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	112		70-130	%	2023-07-25	

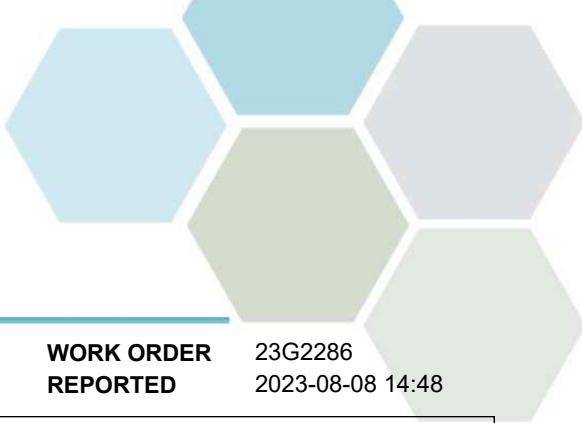
Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0036	N/A	0.0010	mg/L	2023-07-22	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2023-07-22	
Chloroform	0.0390	N/A	0.0010	mg/L	2023-07-22	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2023-07-22	
Surrogate: Toluene-d8	102		70-130	%	2023-07-22	
Surrogate: 4-Bromofluorobenzene	103		70-130	%	2023-07-22	

WTP Header #1 (resample) (23G2286-04) | Matrix: Water | Sampled: 2023-07-27 11:30

Chlorinated Phenols

2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2023-08-04	
3 & 4-Chlorophenol	< 0.10	N/A	0.10	µg/L	2023-08-04	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2023-08-04	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2023-08-04	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20	µg/L	2023-08-04	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2023-08-04	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2023-08-04	
3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2023-08-04	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2023-08-04	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2023-08-04	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2023-08-04	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2023-08-04	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2023-08-04	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2023-08-04	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2023-08-04	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50	µg/L	2023-08-04	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2023-08-04	
Surrogate: 2,4-Dibromophenol	69		60-130	%	2023-08-04	
Surrogate: 2,4,6-Tribromophenol	74		60-130	%	2023-08-04	
Surrogate: Phenol-d6	117		70-130	%	2023-08-04	



TEST RESULTS

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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.

RA1 The Reporting Limit for this sample has been raised due to matrix interference.

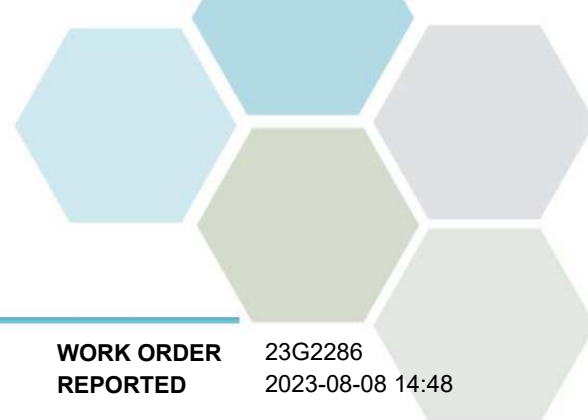
APPENDIX 1: SUPPORTING INFORMATION

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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
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
Glyphosate in Water	EPA 547*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	✓	Richmond
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	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)		Kelowna
N-Nitrosodimethylamine in Water	In-House	N/A	✓	Sublet
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
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Edmonton
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



APPENDIX 1: SUPPORTING INFORMATION

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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 the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. 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: rpsyhk@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.

APPENDIX 2: QUALITY CONTROL RESULTS

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The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (BLK):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Acid Herbicides, Batch B3G2439

Blank (B3G2439-BLK1)			Prepared: 2023-07-24, Analyzed: 2023-07-25						
2,4-D	< 0.10	0.10 µg/L							
MCPA	< 0.02	0.02 µg/L							
2,4,5-T	< 0.10	0.10 µg/L							
Dicamba	< 0.10	0.10 µg/L							
Picloram	< 0.10	0.10 µg/L							
Dinoseb	< 0.10	0.10 µg/L							
LCS (B3G2439-BS1)			Prepared: 2023-07-24, Analyzed: 2023-07-25						
2,4-D	5.87	0.10 µg/L	5.00		117	70-130			
MCPA	5.57	0.02 µg/L	5.00		111	70-130			
2,4,5-T	5.51	0.10 µg/L	4.98		111	70-130			
Dicamba	5.33	0.10 µg/L	5.00		107	70-130			
Picloram	5.39	0.10 µg/L	5.00		108	70-130			
Dinoseb	6.07	0.10 µg/L	5.00		121	70-130			
LCS Dup (B3G2439-BSD1)			Prepared: 2023-07-24, Analyzed: 2023-07-25						
2,4-D	5.48	0.10 µg/L	5.00		110	70-130	7	30	
MCPA	5.37	0.02 µg/L	5.00		107	70-130	4	30	
2,4,5-T	5.34	0.10 µg/L	4.98		107	70-130	3	30	
Dicamba	5.26	0.10 µg/L	5.00		105	70-130	1	30	
Picloram	4.21	0.10 µg/L	5.00		84	70-130	25	30	
Dinoseb	5.93	0.10 µg/L	5.00		119	70-130	2	30	

Anions, Batch B3G2156

Blank (B3G2156-BLK1)			Prepared: 2023-07-20, Analyzed: 2023-07-20						
Chlorate	< 0.50	0.50 mg/L							
Chloride	< 0.50	0.50 mg/L							
Chlorite	< 0.50	0.50 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.050	0.050 mg/L							
Nitrite (as N)	< 0.050	0.050 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B3G2156-BS1)			Prepared: 2023-07-20, Analyzed: 2023-07-20						
Chlorate	9.19	0.50 mg/L	10.0		92	89-112			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Anions, Batch B3G2156, Continued									
LCS (B3G2156-BS1), Continued				Prepared: 2023-07-20, Analyzed: 2023-07-20					
Chloride	9.08	0.50 mg/L	10.0		91	90-110			
Chlorite	10.3	0.50 mg/L	10.0		103	80-120			
Fluoride	0.88	0.10 mg/L	1.00		88	85-115			
Nitrate (as N)	0.954	0.050 mg/L	1.00		95	92-108			
Nitrite (as N)	0.466	0.050 mg/L	0.500		93	85-115			
Sulfate	47.6	1.0 mg/L	50.0		95	90-110			
Duplicate (B3G2156-DUP1)				Source: 23G2286-01	Prepared: 2023-07-21, Analyzed: 2023-07-21				
Chlorate	< 0.50	0.50 mg/L		< 0.50				9	
Chloride	14.8	0.50 mg/L		14.8			< 1	7	
Chlorite	< 0.50	0.50 mg/L		< 0.50				20	
Fluoride	0.15	0.10 mg/L		0.15				15	
Nitrate (as N)	< 0.050	0.050 mg/L		< 0.050				12	
Nitrite (as N)	< 0.050	0.050 mg/L		< 0.050				18	
Sulfate	49.7	1.0 mg/L		49.6			< 1	8	
Matrix Spike (B3G2156-MS1)				Source: 23G2286-01	Prepared: 2023-07-21, Analyzed: 2023-07-21				
Chlorate	9.95	0.50 mg/L	10.0	< 0.50	100	85-115			
Chloride	23.4	5.00 mg/L	10.0	14.8	86	85-115			
Chlorite	8.42	0.50 mg/L	10.0	< 0.50	84	80-120			
Fluoride	1.06	0.10 mg/L	1.00	0.15	91	85-115			
Nitrate (as N)	1.01	0.050 mg/L	1.00	< 0.050	101	87-111			
Nitrite (as N)	0.505	0.050 mg/L	0.500	< 0.050	101	81-127			
Sulfate	84.9	10.0 mg/L	50.0	49.6	70	85-115			MS2
Matrix Spike Dup (B3G2156-MSD1)				Source: 23G2286-01	Prepared: 2023-07-21, Analyzed: 2023-07-21				
Chlorate	9.95	0.50 mg/L	10.0	< 0.50	99	85-115	< 1		
Chloride	23.2	5.00 mg/L	10.0	14.8	84	85-115	< 1		MS2
Chlorite	9.06	0.50 mg/L	10.0	< 0.50	91	80-120	7		
Fluoride	1.07	0.10 mg/L	1.00	0.15	91	85-115	< 1		
Nitrate (as N)	0.985	0.050 mg/L	1.00	< 0.050	99	87-111	3		
Nitrite (as N)	0.545	0.050 mg/L	0.500	< 0.050	109	81-127	8		
Sulfate	85.8	10.0 mg/L	50.0	49.6	72	85-115	1		MS2

Chlorinated Phenols, Batch B3H0273

Blank (B3H0273-BLK1)			Prepared: 2023-08-02, Analyzed: 2023-08-04						
2-Chlorophenol	< 0.10	0.10 µg/L							
3 & 4-Chlorophenol	< 0.10	0.10 µg/L							
4-Chloro-3-Methylphenol	< 0.50	0.50 µg/L							
2,3-Dichlorophenol	< 0.20	0.20 µg/L							
2,4 & 2,5-Dichlorophenol	< 0.20	0.20 µg/L							
2,6-Dichlorophenol	< 0.20	0.20 µg/L							
3,4-Dichlorophenol	< 0.20	0.20 µg/L							
3,5-Dichlorophenol	< 0.20	0.20 µg/L							
2,3,4-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,6-Trichlorophenol	< 0.50	0.50 µg/L							
2,4,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,4,6-Trichlorophenol	< 0.50	0.50 µg/L							
3,4,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	0.50 µg/L							
2,3,4,6-Tetrachlorophenol	< 0.50	0.50 µg/L							
Pentachlorophenol	< 0.50	0.50 µg/L							
Surrogate: 2,4-Dibromophenol	1.48	µg/L	2.01		74	60-130			
Surrogate: 2,4,6-Tribromophenol	1.51	µg/L	2.01		75	60-130			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Chlorinated Phenols, Batch B3H0273, Continued									
Blank (B3H0273-BLK1), Continued					Prepared: 2023-08-02, Analyzed: 2023-08-04				
Surrogate: Phenol-d6	6.23	µg/L	5.25		119	70-130			
LCS (B3H0273-BS1)					Prepared: 2023-08-02, Analyzed: 2023-08-04				
2-Chlorophenol	9.82	0.10 µg/L	10.0		98	60-130			
3 & 4-Chlorophenol	17.0	0.10 µg/L	20.0		85	60-130			
4-Chloro-3-Methylphenol	8.61	0.50 µg/L	10.8		80	60-130			
2,3-Dichlorophenol	8.49	0.20 µg/L	10.0		85	60-130			
2,4 & 2,5-Dichlorophenol	16.4	0.20 µg/L	20.0		82	60-130			
2,6-Dichlorophenol	8.20	0.20 µg/L	10.0		82	60-130			
3,4-Dichlorophenol	7.95	0.20 µg/L	10.0		79	60-130			
3,5-Dichlorophenol	7.50	0.20 µg/L	10.0		75	60-130			
2,3,4-Trichlorophenol	7.84	0.50 µg/L	10.0		78	60-130			
2,3,5-Trichlorophenol	7.92	0.50 µg/L	10.0		79	60-130			
2,3,6-Trichlorophenol	7.48	0.50 µg/L	10.0		75	60-130			
2,4,5-Trichlorophenol	8.89	0.50 µg/L	10.0		89	60-130			
2,4,6-Trichlorophenol	7.48	0.50 µg/L	10.0		75	60-130			
3,4,5-Trichlorophenol	7.39	0.50 µg/L	10.0		74	60-130			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	14.5	0.50 µg/L	20.0		73	60-130			
2,3,4,6-Tetrachlorophenol	7.99	0.50 µg/L	10.0		80	60-130			
Pentachlorophenol	8.96	0.50 µg/L	10.0		90	60-130			
Surrogate: 2,4-Dibromophenol	2.08	µg/L	2.01		103	60-130			
Surrogate: 2,4,6-Tribromophenol	1.54	µg/L	2.01		76	60-130			
Surrogate: Phenol-d6	6.02	µg/L	5.25		115	70-130			
LCS Dup (B3H0273-BSD1)					Prepared: 2023-08-02, Analyzed: 2023-08-04				
2-Chlorophenol	9.75	0.10 µg/L	10.0		97	60-130	< 1	40	
3 & 4-Chlorophenol	17.1	0.10 µg/L	20.0		85	60-130	< 1	40	
4-Chloro-3-Methylphenol	8.89	0.50 µg/L	10.8		83	60-130	3	40	
2,3-Dichlorophenol	9.23	0.20 µg/L	10.0		92	60-130	8	40	
2,4 & 2,5-Dichlorophenol	16.5	0.20 µg/L	20.0		83	60-130	< 1	40	
2,6-Dichlorophenol	8.40	0.20 µg/L	10.0		84	60-130	2	40	
3,4-Dichlorophenol	8.19	0.20 µg/L	10.0		82	60-130	3	40	
3,5-Dichlorophenol	7.84	0.20 µg/L	10.0		78	60-130	4	40	
2,3,4-Trichlorophenol	8.02	0.50 µg/L	10.0		80	60-130	2	40	
2,3,5-Trichlorophenol	8.07	0.50 µg/L	10.0		81	60-130	2	40	
2,3,6-Trichlorophenol	7.66	0.50 µg/L	10.0		77	60-130	2	40	
2,4,5-Trichlorophenol	9.08	0.50 µg/L	10.0		91	60-130	2	40	
2,4,6-Trichlorophenol	7.65	0.50 µg/L	10.0		77	60-130	2	40	
3,4,5-Trichlorophenol	7.77	0.50 µg/L	10.0		78	60-130	5	40	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	16.6	0.50 µg/L	20.0		83	60-130	13	40	
2,3,4,6-Tetrachlorophenol	7.23	0.50 µg/L	10.0		72	60-130	10	40	
Pentachlorophenol	9.50	0.50 µg/L	10.0		95	60-130	6	40	
Surrogate: 2,4-Dibromophenol	2.10	µg/L	2.01		104	60-130			
Surrogate: 2,4,6-Tribromophenol	1.55	µg/L	2.01		77	60-130			
Surrogate: Phenol-d6	5.87	µg/L	5.25		112	70-130			

General Parameters, Batch B3G2003

Blank (B3G2003-BLK1)			Prepared: 2023-07-19, Analyzed: 2023-07-21						
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B3G2003-BLK2)			Prepared: 2023-07-19, Analyzed: 2023-07-21						
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B3G2003-BLK3)			Prepared: 2023-07-20, Analyzed: 2023-07-21						
Carbon, Total Organic	< 0.50	0.50 mg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B3G2003, Continued									
LCS (B3G2003-BS1)				Prepared: 2023-07-19, Analyzed: 2023-07-21					
Carbon, Total Organic	9.34	0.50 mg/L	10.0		93	78-116			
LCS (B3G2003-BS2)				Prepared: 2023-07-19, Analyzed: 2023-07-21					
Carbon, Total Organic	9.31	0.50 mg/L	10.0		93	78-116			
LCS (B3G2003-BS3)				Prepared: 2023-07-20, Analyzed: 2023-07-21					
Carbon, Total Organic	9.02	0.50 mg/L	10.0		90	78-116			
General Parameters, Batch B3G2042									
Blank (B3G2042-BLK1)				Prepared: 2023-07-20, Analyzed: 2023-07-20					
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							
Duplicate (B3G2042-DUP1)				Source: 23G2286-01		Prepared: 2023-07-20, Analyzed: 2023-07-20			
Chlorine, Total	0.63	0.02 mg/L		0.64			2	10	
Chlorine, Free	0.57	0.02 mg/L		0.57			< 1	20	
Reference (B3G2042-SRM1)				Prepared: 2023-07-20, Analyzed: 2023-07-20					
Chlorine, Total	1.59	0.02 mg/L	1.59		100	91.2-108.8			
Chlorine, Free	1.59	0.02 mg/L	1.59		100	91.2-108.8			
General Parameters, Batch B3G2048									
Blank (B3G2048-BLK1)				Prepared: 2023-07-20, Analyzed: 2023-07-20					
Sulfide, Total	< 0.020	0.020 mg/L							
LCS (B3G2048-BS1)				Prepared: 2023-07-20, Analyzed: 2023-07-20					
Sulfide, Total	0.393	0.020 mg/L	0.480		82	80-120			
General Parameters, Batch B3G2127									
Blank (B3G2127-BLK1)				Prepared: 2023-07-20, Analyzed: 2023-07-20					
Colour, True	< 5.0	5.0 CU							
LCS (B3G2127-BS1)				Prepared: 2023-07-20, Analyzed: 2023-07-20					
Colour, True	25	5.0 CU	25.0		101	90-109			
General Parameters, Batch B3G2128									
Blank (B3G2128-BLK1)				Prepared: 2023-07-20, Analyzed: 2023-07-20					
Turbidity	< 0.10	0.10 NTU							
LCS (B3G2128-BS1)				Prepared: 2023-07-20, Analyzed: 2023-07-20					
Turbidity	40.4	0.10 NTU	40.0		101	90-110			
General Parameters, Batch B3G2210									
Blank (B3G2210-BLK1)				Prepared: 2023-07-21, Analyzed: 2023-07-21					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B3G2210-BS1)				Prepared: 2023-07-21, Analyzed: 2023-07-21					
Ammonia, Total (as N)	0.184	0.050 mg/L	0.200		92	85-115			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B3G2298									
Blank (B3G2298-BLK1)				Prepared: 2023-07-22, Analyzed: 2023-07-22					
Cyanide, Total	< 0.0020	0.0020 mg/L							
Blank (B3G2298-BLK2)				Prepared: 2023-07-22, Analyzed: 2023-07-22					
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B3G2298-BS1)				Prepared: 2023-07-22, Analyzed: 2023-07-22					
Cyanide, Total	0.0218	0.0020 mg/L	0.0200		109	82-120			
LCS (B3G2298-BS2)				Prepared: 2023-07-22, Analyzed: 2023-07-22					
Cyanide, Total	0.0226	0.0020 mg/L	0.0200		113	82-120			
LCS Dup (B3G2298-BSD1)				Prepared: 2023-07-22, Analyzed: 2023-07-22					
Cyanide, Total	0.0207	0.0020 mg/L	0.0200		103	82-120	5	10	
LCS Dup (B3G2298-BSD2)				Prepared: 2023-07-22, Analyzed: 2023-07-22					
Cyanide, Total	0.0215	0.0020 mg/L	0.0200		108	82-120	5	10	
Matrix Spike (B3G2298-MS2)				Source: 23G2286-01		Prepared: 2023-07-22, Analyzed: 2023-07-22			
Cyanide, Total	0.0407	0.0020 mg/L	0.0400	< 0.0020	102	70-130			
General Parameters, Batch B3G2406									
Blank (B3G2406-BLK1)				Prepared: 2023-07-24, Analyzed: 2023-07-24					
Alkalinity, Total (as CaCO ₃)	< 2.0	2.0 mg/L							
Bicarbonate (HCO ₃)	< 2.0	2.0 mg/L							
Carbonate (CO ₃)	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B3G2406-BS1)				Prepared: 2023-07-24, Analyzed: 2023-07-24					
Alkalinity, Total (as CaCO ₃)	255	2.0 mg/L	250		102	94-108			
Conductivity (EC)	1010	2.0 µS/cm	1000		101	95-105			
Duplicate (B3G2406-DUP1)				Source: 23G2286-01		Prepared: 2023-07-24, Analyzed: 2023-07-24			
Alkalinity, Total (as CaCO ₃)	130	2.0 mg/L		130			< 1	7	
Bicarbonate (HCO ₃)	159	2.0 mg/L		158			< 1	7	
Carbonate (CO ₃)	< 2.0	2.0 mg/L		< 2.0				7	
Hydroxide (OH)	< 2.0	2.0 mg/L		< 2.0				7	
Conductivity (EC)	399	2.0 µS/cm		390			2	3	
pH	7.55	0.10 pH units		7.60			< 1	1.5	
Reference (B3G2406-SRM1)				Prepared: 2023-07-24, Analyzed: 2023-07-24					
pH	7.01	0.10 pH units	7.00		100	98-102			
General Parameters, Batch B3G2534									
Blank (B3G2534-BLK1)				Prepared: 2023-07-25, Analyzed: 2023-07-25					
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
LCS (B3G2534-BS1)				Prepared: 2023-07-25, Analyzed: 2023-07-25					
Nitritotriacetic Acid	1.14	0.20 mg/L	1.00		114	80-120			
LCS Dup (B3G2534-BSD1)				Prepared: 2023-07-25, Analyzed: 2023-07-25					
Nitritotriacetic Acid	1.10	0.20 mg/L	1.00		110	80-120	3	20	

Haloacetic Acids, Batch B3G2512

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Haloacetic Acids, Batch B3G2512, Continued

Blank (B3G2512-BLK1)			Prepared: 2023-07-24, Analyzed: 2023-07-25						
Monochloroacetic Acid	< 0.0020	0.0020 mg/L							
Monobromoacetic Acid	< 0.0020	0.0020 mg/L							
Dichloroacetic Acid	< 0.0020	0.0020 mg/L							
Trichloroacetic Acid	< 0.0020	0.0020 mg/L							
Dibromoacetic Acid	< 0.0020	0.0020 mg/L							
Surrogate: 2-Bromopropionic Acid	0.0119	mg/L	0.0116		103	70-130			

LCS (B3G2512-BS1)			Prepared: 2023-07-24, Analyzed: 2023-07-24						
Monochloroacetic Acid	0.0575	0.0020 mg/L	0.0564		102	75-117			
Monobromoacetic Acid	0.0363	0.0020 mg/L	0.0374		97	83-113			
Dichloroacetic Acid	0.0564	0.0020 mg/L	0.0558		101	78-112			
Trichloroacetic Acid	0.0188	0.0020 mg/L	0.0186		101	81-110			
Dibromoacetic Acid	0.0187	0.0020 mg/L	0.0187		100	89-112			
Surrogate: 2-Bromopropionic Acid	0.0116	mg/L	0.0116		99	70-130			

LCS Dup (B3G2512-BSD1)			Prepared: 2023-07-24, Analyzed: 2023-07-25						
Monochloroacetic Acid	0.0551	0.0020 mg/L	0.0564		98	75-117	4	30	
Monobromoacetic Acid	0.0389	0.0020 mg/L	0.0374		104	83-113	7	30	
Dichloroacetic Acid	0.0557	0.0020 mg/L	0.0558		100	78-112	1	30	
Trichloroacetic Acid	0.0186	0.0020 mg/L	0.0186		100	81-110	< 1	30	
Dibromoacetic Acid	0.0189	0.0020 mg/L	0.0187		101	89-112	1	30	
Surrogate: 2-Bromopropionic Acid	0.00935	mg/L	0.0116		80	70-130			

Miscellaneous Herbicides, Batch B3G2245

Blank (B3G2245-BLK1)			Prepared: 2023-07-23, Analyzed: 2023-07-23						
Glyphosate	< 0.050	0.050 mg/L							

LCS (B3G2245-BS1)			Prepared: 2023-07-23, Analyzed: 2023-07-23						
Glyphosate	0.210	0.050 mg/L	0.250		84	70-130			

LCS Dup (B3G2245-BSD1)			Prepared: 2023-07-23, Analyzed: 2023-07-23						
Glyphosate	0.189	0.050 mg/L	0.250		76	70-130	10	20	

Calibration Blank (B3G2245-CCB1)			Prepared: 2023-07-25, Analyzed: 2023-07-25						
Glyphosate	0.00	mg/L							

Calibration Blank (B3G2245-CCB2)			Prepared: 2023-07-25, Analyzed: 2023-07-25						
Glyphosate	0.00	mg/L							

Calibration Blank (B3G2245-CCB3)			Prepared: 2023-07-25, Analyzed: 2023-07-25						
Glyphosate	0.00	mg/L							

Calibration Blank (B3G2245-CCB4)			Prepared: 2023-07-25, Analyzed: 2023-07-25						
Glyphosate	0.00	mg/L							

Calibration Blank (B3G2245-CCB5)			Prepared: 2023-07-25, Analyzed: 2023-07-25						
Glyphosate	0.00	mg/L							

Pesticides, Herbicides, and Fungicides, Batch B3G2494

Blank (B3G2494-BLK1)			Prepared: 2023-07-24, Analyzed: 2023-07-25						
Alachlor	< 0.100	0.100 µg/L							
Aldrin	< 0.006	0.006 µg/L							
Atrazine and metabolites	< 0.500	0.500 µg/L							RA1
Azinphos-methyl	< 0.200	0.200 µg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B3G2494, Continued									
Blank (B3G2494-BLK1), Continued					Prepared: 2023-07-24, Analyzed: 2023-07-25				
alpha-BHC	< 0.010	0.010 µg/L							
beta-BHC	< 0.050	0.050 µg/L							
delta-BHC	< 0.050	0.050 µg/L							
gamma-BHC (Lindane)	< 0.050	0.050 µg/L							
Bromacil	< 0.100	0.100 µg/L							
Bromoxynil	< 0.200	0.200 µg/L							
Butachlor	< 0.020	0.020 µg/L							
Captan	< 0.100	0.100 µg/L							
Chlordane (cis + trans)	< 0.050	0.050 µg/L							
Chlorothalonil	< 0.050	0.050 µg/L							
Chlorpyrifos	< 0.010	0.010 µg/L							
Cyanazine	< 0.700	0.700 µg/L							RA1
DDT, Total	< 0.010	0.010 µg/L							
Deltamethrin	< 0.100	0.100 µg/L							
Diazinon	< 0.040	0.040 µg/L							RA1
Dichlorvos	< 0.100	0.100 µg/L							
Diclofop-methyl	< 0.100	0.100 µg/L							
Dieldrin	< 0.010	0.010 µg/L							
Dimethoate	< 0.200	0.200 µg/L							
Disulfoton	< 0.100	0.100 µg/L							
Diuron	< 0.200	0.200 µg/L							
Endosulfan I + II	< 0.010	0.010 µg/L							
Endosulfan sulfate	< 0.050	0.050 µg/L							
Endrin	< 0.020	0.020 µg/L							
Endrin aldehyde	< 0.020	0.020 µg/L							
Endrin ketone	< 0.020	0.020 µg/L							
Fenchlorphos (Ronnell)	< 0.100	0.100 µg/L							
Heptachlor	< 0.010	0.010 µg/L							
Heptachlor epoxide	< 0.010	0.010 µg/L							
Linuron	< 0.050	0.050 µg/L							
Malathion	< 0.100	0.100 µg/L							
Methoxychlor	< 0.050	0.050 µg/L							
Methyl parathion	< 0.100	0.100 µg/L							
Metolachlor	< 0.100	0.100 µg/L							
Metribuzin	< 1.60	1.60 µg/L							RA1
Parathion	< 0.100	0.100 µg/L							
Pentachloronitrobenzene	< 0.100	0.100 µg/L							
Permethrin	< 0.010	0.010 µg/L							
Phorate	< 0.100	0.100 µg/L							
Prometon	< 1.20	1.20 µg/L							RA1
Prometryne	< 0.100	0.100 µg/L							
Simazine	< 2.00	2.00 µg/L							RA1
Sulfotep	< 0.100	0.100 µg/L							
Tebuthiuron	< 2.00	2.00 µg/L							RA1
Temephos (Abate)	< 0.500	0.500 µg/L							
Terbufos	< 0.100	0.100 µg/L							
Triallate	< 0.100	0.100 µg/L							
Trifluralin	< 0.200	0.200 µg/L							
Surrogate: Tributyl Phosphate	0.904	µg/L	0.998		91	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.847	µg/L	0.970		87	50-140			
LCS (B3G2494-BS1)					Prepared: 2023-07-24, Analyzed: 2023-07-25				
Alachlor	0.647	0.100 µg/L	1.01		64	50-140			
Aldrin	0.748	0.006 µg/L	1.00		75	50-140			
Atrazine	0.121	0.100 µg/L	1.01		12	50-140			SPK
Atrazine-desethyl	< 0.100	0.100 µg/L	1.06		5	50-140			SPK

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B3G2494, Continued									
LCS (B3G2494-BS1), Continued					Prepared: 2023-07-24, Analyzed: 2023-07-25				
Azinphos-methyl	0.492	0.200 µg/L	1.04		47	50-140			SPK
alpha-BHC	0.838	0.010 µg/L	1.00		84	50-140			
beta-BHC	0.911	0.050 µg/L	1.00		91	50-140			
delta-BHC	0.929	0.050 µg/L	1.00		93	50-140			
gamma-BHC (Lindane)	0.858	0.050 µg/L	1.00		86	50-140			
Bromacil	1.09	0.100 µg/L	1.00		109	50-140			
Bromoxynil	1.27	0.200 µg/L	1.08		118	50-140			
Butachlor	0.900	0.020 µg/L	1.00		90	50-140			
Captan	1.18	0.100 µg/L	1.08		109	50-140			
Chlordane (cis + trans)	1.70	0.050 µg/L	2.00		85	50-140			
Chlorothalonil	0.973	0.050 µg/L	0.996		98	50-140			
Chlorpyrifos	0.908	0.010 µg/L	1.00		91	50-140			
Cyanazine	< 0.100	0.100 µg/L	1.00		8	50-140			SPK
DDT, Total	3.40	0.010 µg/L	3.30		103	50-140			
Deltamethrin	10.3	0.100 µg/L	11.3		91	50-140			
Diazinon	0.117	0.020 µg/L	1.01		12	50-140			SPK
Dichlorvos	0.682	0.100 µg/L	0.938		73	50-140			
Diclofop-methyl	1.04	0.100 µg/L	1.06		98	50-140			
Dieldrin	0.895	0.010 µg/L	1.00		89	50-140			
Dimethoate	0.693	0.200 µg/L	1.01		69	50-140			
Disulfoton	0.922	0.100 µg/L	0.996		93	50-140			
Diuron	1.10	0.200 µg/L	1.05		105	50-140			
Endosulfan I + II	1.96	0.010 µg/L	2.00		98	50-140			
Endosulfan sulfate	1.10	0.050 µg/L	1.00		110	50-140			
Endrin	0.585	0.020 µg/L	1.00		59	50-140			
Endrin aldehyde	0.810	0.020 µg/L	0.999		81	50-140			
Endrin ketone	1.24	0.020 µg/L	1.00		124	50-140			
Fenchlorphos (Ronnel)	0.873	0.100 µg/L	0.990		88	50-140			
Heptachlor	0.896	0.010 µg/L	1.00		90	50-140			
Heptachlor epoxide	0.899	0.010 µg/L	1.00		90	50-140			
Linuron	1.27	0.050 µg/L	1.00		127	50-140			
Malathion	1.14	0.100 µg/L	1.00		114	50-140			
Methoxychlor	1.10	0.050 µg/L	1.00		110	50-140			
Methyl parathion	1.10	0.100 µg/L	1.04		106	50-140			
Metolachlor	1.03	0.100 µg/L	1.00		103	50-140			
Metribuzin	< 0.200	0.200 µg/L	1.00		7	50-140			SPK
Parathion	1.13	0.100 µg/L	1.01		111	50-140			
Pentachloronitrobenzene	0.955	0.100 µg/L	0.998		96	50-140			
Permethrin	1.21	0.010 µg/L	1.01		119	50-140			
Phorate	0.827	0.100 µg/L	1.04		80	50-140			
Prometon	< 0.300	0.300 µg/L	1.00		8	50-140			SPK
Prometryne	0.260	0.100 µg/L	1.00		26	50-140			SPK
Simazine	< 0.200	0.200 µg/L	1.01		6	50-140			SPK
Sulfotep	0.863	0.100 µg/L	1.04		83	50-140			
Tebuthiuron	< 0.200	0.200 µg/L	1.00		6	50-140			SPK
Temephos (Abate)	12.9	0.500 µg/L	9.98		130	50-140			
Terbufos	0.935	0.100 µg/L	1.00		94	50-140			
Triallate	1.04	0.100 µg/L	1.04		100	50-140			
Trifluralin	0.980	0.200 µg/L	1.00		98	50-140			
Surrogate: Tributyl Phosphate	1.04	µg/L	0.998		104	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.806	µg/L	0.970		83	50-140			
LCS Dup (B3G2494-BS1)					Prepared: 2023-07-24, Analyzed: 2023-07-25				
Alachlor	0.744	0.100 µg/L	1.01		74	50-140	14	30	
Aldrin	0.713	0.006 µg/L	1.00		71	50-140	5	30	
Atrazine	0.129	0.100 µg/L	1.01		13	50-140	6	30	SPK

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B3G2494, Continued									
LCS Dup (B3G2494-BSD1), Continued					Prepared: 2023-07-24, Analyzed: 2023-07-25				
Atrazine-desethyl	< 0.100	0.100 µg/L	1.06		3	50-140	45	30	RPD, SPK
Azinphos-methyl	0.824	0.200 µg/L	1.04		79	50-140	50	30	RPD
alpha-BHC	0.841	0.010 µg/L	1.00		84	50-140	< 1	30	
beta-BHC	0.905	0.050 µg/L	1.00		90	50-140	< 1	30	
delta-BHC	0.907	0.050 µg/L	1.00		91	50-140	2	30	
gamma-BHC (Lindane)	0.859	0.050 µg/L	1.00		86	50-140	< 1	30	
Bromacil	1.13	0.100 µg/L	1.00		113	50-140	4	30	
Bromoxynil	1.29	0.200 µg/L	1.08		119	50-140	2	30	
Butachlor	0.951	0.020 µg/L	1.00		95	50-140	6	30	
Captan	1.17	0.100 µg/L	1.08		108	50-140	1	30	
Chlordane (cis + trans)	1.71	0.050 µg/L	2.00		85	50-140	< 1	30	
Chlorothalonil	1.03	0.050 µg/L	0.996		104	50-140	6	30	
Chlorpyrifos	0.894	0.010 µg/L	1.00		89	50-140	2	30	
Cyanazine	< 0.100	0.100 µg/L	1.00		6	50-140	27	30	SPK
DDT, Total	3.54	0.010 µg/L	3.30		107	50-140	4	30	
Deltamethrin	10.2	0.100 µg/L	11.3		91	50-140	< 1	30	
Diazinon	0.355	0.020 µg/L	1.01		35	50-140	101	30	RPD, SPK
Dichlorvos	0.694	0.100 µg/L	0.938		74	50-140	2	30	
Diclofop-methyl	1.05	0.100 µg/L	1.06		99	50-140	< 1	30	
Dieldrin	0.933	0.010 µg/L	1.00		93	50-140	4	30	
Dimethoate	0.821	0.200 µg/L	1.01		81	50-140	17	30	
Disulfoton	0.937	0.100 µg/L	0.996		94	50-140	2	30	
Diuron	1.17	0.200 µg/L	1.05		111	50-140	6	30	
Endosulfan I + II	1.98	0.010 µg/L	2.00		99	50-140	< 1	30	
Endosulfan sulfate	1.13	0.050 µg/L	1.00		113	50-140	3	30	
Endrin	0.682	0.020 µg/L	1.00		68	50-140	15	30	
Endrin aldehyde	0.777	0.020 µg/L	0.999		78	50-140	4	30	
Endrin ketone	1.28	0.020 µg/L	1.00		128	50-140	3	30	
Fenchlorphos (Ronnel)	0.958	0.100 µg/L	0.990		97	50-140	9	30	
Heptachlor	0.961	0.010 µg/L	1.00		96	50-140	7	30	
Heptachlor epoxide	0.860	0.010 µg/L	1.00		86	50-140	4	30	
Linuron	1.23	0.050 µg/L	1.00		123	50-140	3	30	
Malathion	1.12	0.100 µg/L	1.00		112	50-140	1	30	
Methoxychlor	1.12	0.050 µg/L	1.00		112	50-140	2	30	
Methyl parathion	1.13	0.100 µg/L	1.04		109	50-140	2	30	
Metolachlor	1.06	0.100 µg/L	1.00		106	50-140	3	30	
Metribuzin	< 0.200	0.200 µg/L	1.00		6	50-140	13	30	SPK
Parathion	1.18	0.100 µg/L	1.01		117	50-140	5	30	
Pentachloronitrobenzene	0.978	0.100 µg/L	0.998		98	50-140	2	30	
Permethrin	1.17	0.010 µg/L	1.01		116	50-140	3	30	
Phorate	0.839	0.100 µg/L	1.04		81	50-140	1	30	
Prometon	< 0.300	0.300 µg/L	1.00		14	50-140	51	30	RPD, SPK
Prometryne	0.455	0.100 µg/L	1.00		46	50-140	55	30	RPD, SPK
Simazine	< 0.200	0.200 µg/L	1.01		3	50-140	69	30	RPD, SPK
Sulfotep	0.898	0.100 µg/L	1.04		86	50-140	4	30	
Tebuthiuron	< 0.200	0.200 µg/L	1.00		3	50-140	64	30	RPD, SPK
Temephos (Abate)	12.9	0.500 µg/L	9.98		129	50-140	< 1	30	
Terbufos	0.987	0.100 µg/L	1.00		99	50-140	5	30	
Triallate	1.09	0.100 µg/L	1.04		105	50-140	4	30	
Trifluralin	1.05	0.200 µg/L	1.00		105	50-140	7	30	
Surrogate: Tributyl Phosphate	1.02	µg/L	0.998		102	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.778	µg/L	0.970		80	50-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B3G2393

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B3G2393, Continued									
Blank (B3G2393-BLK1)					Prepared: 2023-07-24, Analyzed: 2023-07-25				
Acenaphthene	< 0.050	0.050 µg/L							
Acenaphthylene	< 0.200	0.200 µg/L							
Anthracene	< 0.010	0.010 µg/L							
Benz(a)anthracene	< 0.010	0.010 µg/L							
Benzo(a)pyrene	< 0.010	0.010 µg/L							
Benzo(b+j)fluoranthene	< 0.050	0.050 µg/L							
Benzo(g,h,i)perylene	< 0.050	0.050 µg/L							
Benzo(k)fluoranthene	< 0.050	0.050 µg/L							
2-Chloronaphthalene	< 0.100	0.100 µg/L							
Chrysene	< 0.050	0.050 µg/L							
Dibenz(a,h)anthracene	< 0.010	0.010 µg/L							
Fluoranthene	< 0.030	0.030 µg/L							
Fluorene	< 0.050	0.050 µg/L							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 µg/L							
1-Methylnaphthalene	< 0.100	0.100 µg/L							
2-Methylnaphthalene	< 0.100	0.100 µg/L							
Naphthalene	< 0.200	0.200 µg/L							
Phenanthrene	< 0.100	0.100 µg/L							
Pyrene	< 0.020	0.020 µg/L							
Quinoline	< 0.050	0.050 µg/L							
Surrogate: Naphthalene-d8	31.6	µg/L	44.9		70	50-140			
Surrogate: Perylene-d12	31.1	µg/L	44.9		69	50-140			
LCS (B3G2393-BS2)					Prepared: 2023-07-24, Analyzed: 2023-07-25				
Acenaphthene	17.0	0.050 µg/L	22.2		77	50-140			
Acenaphthylene	18.4	0.200 µg/L	22.2		83	50-140			
Anthracene	16.1	0.010 µg/L	22.2		72	50-140			
Benz(a)anthracene	24.2	0.010 µg/L	22.2		109	50-140			
Benzo(a)pyrene	20.4	0.010 µg/L	22.2		92	50-140			
Benzo(b+j)fluoranthene	37.9	0.050 µg/L	44.4		85	50-140			
Benzo(g,h,i)perylene	21.0	0.050 µg/L	22.2		94	50-140			
Benzo(k)fluoranthene	25.0	0.050 µg/L	22.2		113	50-140			
2-Chloronaphthalene	15.9	0.100 µg/L	22.7		70	50-140			
Chrysene	17.5	0.050 µg/L	22.2		79	50-140			
Dibenz(a,h)anthracene	27.0	0.010 µg/L	22.2		122	50-140			
Fluoranthene	15.8	0.030 µg/L	22.2		71	50-140			
Fluorene	16.9	0.050 µg/L	22.2		76	50-140			
Indeno(1,2,3-cd)pyrene	23.1	0.050 µg/L	22.2		104	50-140			
1-Methylnaphthalene	16.4	0.100 µg/L	22.2		74	50-140			
2-Methylnaphthalene	15.8	0.100 µg/L	22.2		71	50-140			
Naphthalene	15.0	0.200 µg/L	22.2		68	50-140			
Phenanthrene	16.3	0.100 µg/L	22.2		74	50-140			
Pyrene	16.0	0.020 µg/L	22.2		72	50-140			
Quinoline	23.4	0.050 µg/L	28.0		84	50-140			
Surrogate: Naphthalene-d8	34.5	µg/L	44.9		77	50-140			
Surrogate: Perylene-d12	37.1	µg/L	44.9		83	50-140			
LCS Dup (B3G2393-BS2)					Prepared: 2023-07-24, Analyzed: 2023-07-25				
Acenaphthene	19.1	0.050 µg/L	22.2		86	50-140	12	30	
Acenaphthylene	20.6	0.200 µg/L	22.2		93	50-140	11	30	
Anthracene	18.5	0.010 µg/L	22.2		83	50-140	14	30	
Benz(a)anthracene	26.7	0.010 µg/L	22.2		120	50-140	10	30	
Benzo(a)pyrene	22.8	0.010 µg/L	22.2		103	50-140	11	30	
Benzo(b+j)fluoranthene	41.9	0.050 µg/L	44.4		94	50-140	10	30	
Benzo(g,h,i)perylene	23.2	0.050 µg/L	22.2		104	50-140	10	30	
Benzo(k)fluoranthene	22.7	0.050 µg/L	22.2		102	50-140	10	30	

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Polycyclic Aromatic Hydrocarbons (PAH), Batch B3G2393, Continued									
LCS Dup (B3G2393-BSD2), Continued					Prepared: 2023-07-24, Analyzed: 2023-07-25				
2-Chloronaphthalene	17.9	0.100 µg/L	22.7		79	50-140	12	30	
Chrysene	19.5	0.050 µg/L	22.2		88	50-140	11	30	
Dibenz(a,h)anthracene	29.6	0.010 µg/L	22.2		133	50-140	9	30	
Fluoranthene	17.8	0.030 µg/L	22.2		80	50-140	12	30	
Fluorene	18.9	0.050 µg/L	22.2		85	50-140	11	30	
Indeno(1,2,3-cd)pyrene	25.4	0.050 µg/L	22.2		115	50-140	10	30	
1-Methylnaphthalene	18.6	0.100 µg/L	22.2		84	50-140	13	30	
2-Methylnaphthalene	17.8	0.100 µg/L	22.2		80	50-140	12	30	
Naphthalene	17.4	0.200 µg/L	22.2		78	50-140	15	30	
Phenanthrene	18.2	0.100 µg/L	22.2		82	50-140	10	30	
Pyrene	17.9	0.020 µg/L	22.2		81	50-140	11	30	
Quinoline	25.5	0.050 µg/L	28.0		91	50-140	9	30	
Surrogate: Naphthalene-d8	35.7	µg/L	44.9		79	50-140			
Surrogate: Perylene-d12	40.2	µg/L	44.9		90	50-140			

Total Metals, Batch B3G2362

Blank (B3G2362-BLK1)			Prepared: 2023-07-23, Analyzed: 2023-07-23						
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							

LCS (B3G2362-BS1)			Prepared: 2023-07-23, Analyzed: 2023-07-23						
Aluminum, total	4.83	0.0050 mg/L	5.00		97	80-120			
Antimony, total	0.0527	0.00020 mg/L	0.0500		105	80-120			
Arsenic, total	0.484	0.00050 mg/L	0.500		97	80-120			
Barium, total	0.0526	0.0050 mg/L	0.0500		105	80-120			
Boron, total	0.513	0.0500 mg/L	0.500		103	80-120			
Cadmium, total	0.0516	0.000010 mg/L	0.0500		103	80-120			
Calcium, total	5.08	0.20 mg/L	5.00		102	80-120			
Chromium, total	0.0493	0.00050 mg/L	0.0500		99	80-120			
Copper, total	0.0489	0.00040 mg/L	0.0500		98	80-120			
Iron, total	4.97	0.010 mg/L	5.00		99	80-120			
Lead, total	0.0515	0.00020 mg/L	0.0500		103	80-120			
Magnesium, total	4.94	0.010 mg/L	5.00		99	80-120			
Manganese, total	0.0492	0.00020 mg/L	0.0500		98	80-120			
Potassium, total	4.88	0.10 mg/L	5.00		98	80-120			
Selenium, total	0.517	0.00050 mg/L	0.500		103	80-120			
Silver, total	0.0537	0.000050 mg/L	0.0500		107	80-120			

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Total Metals, Batch B3G2362, Continued									
LCS (B3G2362-BS1), Continued				Prepared: 2023-07-23, Analyzed: 2023-07-23					
Sodium, total	4.85	0.10 mg/L	5.00		97	80-120			
Strontium, total	0.0496	0.0010 mg/L	0.0500		99	80-120			
Uranium, total	0.0534	0.000020 mg/L	0.0500		107	80-120			
Zinc, total	0.465	0.0040 mg/L	0.500		93	80-120			

Total Metals, Batch B3G2382

Blank (B3G2382-BLK1)				Prepared: 2023-07-23, Analyzed: 2023-07-24					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B3G2382-BLK2)				Prepared: 2023-07-23, Analyzed: 2023-07-24					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B3G2382-BLK3)				Prepared: 2023-07-23, Analyzed: 2023-07-24					
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B3G2382-BS2)				Prepared: 2023-07-23, Analyzed: 2023-07-24					
Mercury, total	0.000227	0.000010 mg/L	0.000250		91	80-120			
LCS (B3G2382-BS3)				Prepared: 2023-07-23, Analyzed: 2023-07-24					
Mercury, total	0.000239	0.000010 mg/L	0.000250		96	80-120			

Volatile Organic Compounds (VOC), Batch B3G2230

Blank (B3G2230-BLK1)				Prepared: 2023-07-21, Analyzed: 2023-07-22					
Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 0.0010	0.0010 mg/L							
Bromoform	< 1.0	1.0 µg/L							
Carbon tetrachloride	< 0.5	0.5 µg/L							
Chlorobenzene	< 1.0	1.0 µg/L							
Chloroethane	< 2.0	2.0 µg/L							
Chloroform	< 0.0010	0.0010 mg/L							
Dibromochloromethane	< 1.0	1.0 µg/L							
1,2-Dibromoethane	< 0.3	0.3 µg/L							
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethylene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
Dichloromethane	< 3.0	3.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
1,3-Dichloropropene (cis + trans)	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							
Styrene	< 1.0	1.0 µg/L							
1,1,2,2-Tetrachloroethane	< 0.5	0.5 µg/L							
Tetrachloroethylene	< 1.0	1.0 µg/L							
Toluene	< 0.5	0.5 µg/L							
1,1,1-Trichloroethane	< 1.0	1.0 µg/L							
1,1,2-Trichloroethane	< 1.0	1.0 µg/L							
Trichloroethylene	< 1.0	1.0 µg/L							
Trichlorofluoromethane	< 1.0	1.0 µg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B3G2230, Continued									
Blank (B3G2230-BLK1), Continued					Prepared: 2023-07-21, Analyzed: 2023-07-22				
Vinyl chloride	< 1.0	1.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	0.0188	mg/L	0.0200		94	70-130			
Surrogate: 4-Bromofluorobenzene	0.0182	mg/L	0.0200		91	70-130			
Blank (B3G2230-BLK2)					Prepared: 2023-07-21, Analyzed: 2023-07-22				
Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 0.0010	0.0010 mg/L							
Bromoform	< 0.0010	0.0010 mg/L							
Carbon tetrachloride	< 0.5	0.5 µg/L							
Chlorobenzene	< 1.0	1.0 µg/L							
Chloroethane	< 2.0	2.0 µg/L							
Chloroform	< 1.0	1.0 µg/L							
Dibromochloromethane	< 0.0010	0.0010 mg/L							
1,2-Dibromoethane	< 0.3	0.3 µg/L							
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethylene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
Dichloromethane	< 3.0	3.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
1,3-Dichloropropene (cis + trans)	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							
Styrene	< 1.0	1.0 µg/L							
1,1,2,2-Tetrachloroethane	< 0.5	0.5 µg/L							
Tetrachloroethylene	< 1.0	1.0 µg/L							
Toluene	< 0.5	0.5 µg/L							
1,1,1-Trichloroethane	< 1.0	1.0 µg/L							
1,1,2-Trichloroethane	< 1.0	1.0 µg/L							
Trichloroethylene	< 1.0	1.0 µg/L							
Trichlorofluoromethane	< 1.0	1.0 µg/L							
Vinyl chloride	< 1.0	1.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	22.0	µg/L	20.0		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0207	mg/L	0.0200		103	70-130			
LCS (B3G2230-BS1)					Prepared: 2023-07-21, Analyzed: 2023-07-22				
Benzene	22.2	0.5 µg/L	20.1		111	70-130			
Bromodichloromethane	22.2	1.0 µg/L	20.1		110	70-130			
Bromoform	24.6	1.0 µg/L	20.1		122	70-130			
Carbon tetrachloride	20.0	0.5 µg/L	20.1		100	70-130			
Chlorobenzene	22.5	1.0 µg/L	20.1		112	70-130			
Chloroethane	27.6	2.0 µg/L	20.1		137	60-140			
Chloroform	0.0216	0.0010 mg/L	0.0201		107	70-130			
Dibromochloromethane	0.0246	0.0010 mg/L	0.0201		123	70-130			
1,2-Dibromoethane	23.3	0.3 µg/L	20.1		116	70-130			
Dibromomethane	20.9	1.0 µg/L	20.1		104	70-130			
1,2-Dichlorobenzene	22.2	0.5 µg/L	20.1		110	70-130			
1,3-Dichlorobenzene	22.0	1.0 µg/L	20.1		110	70-130			
1,4-Dichlorobenzene	21.8	1.0 µg/L	20.1		108	70-130			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B3G2230, Continued									
LCS (B3G2230-BS1), Continued					Prepared: 2023-07-21, Analyzed: 2023-07-22				
1,1-Dichloroethane	20.2	1.0 µg/L	20.1		101	70-130			
1,2-Dichloroethane	19.5	1.0 µg/L	20.1		97	70-130			
1,1-Dichloroethylene	28.1	1.0 µg/L	20.1		140	70-130			MES
cis-1,2-Dichloroethylene	21.7	1.0 µg/L	20.1		108	70-130			
trans-1,2-Dichloroethylene	26.3	1.0 µg/L	20.1		131	70-130			MES
Dichloromethane	26.3	3.0 µg/L	20.1		131	70-130			MES
1,2-Dichloropropane	21.5	1.0 µg/L	20.1		107	70-130			
1,3-Dichloropropene (cis + trans)	43.4	1.0 µg/L	40.0		109	70-130			
Ethylbenzene	21.3	1.0 µg/L	20.1		106	70-130			
Methyl tert-butyl ether	22.1	1.0 µg/L	20.0		110	70-130			
Styrene	21.1	1.0 µg/L	20.1		105	70-130			
1,1,2,2-Tetrachloroethane	24.6	0.5 µg/L	20.1		122	70-130			
Tetrachloroethylene	21.0	1.0 µg/L	20.1		104	70-130			
Toluene	22.8	0.5 µg/L	20.1		114	70-130			
1,1,1-Trichloroethane	19.8	1.0 µg/L	20.1		99	70-130			
1,1,2-Trichloroethane	24.1	1.0 µg/L	20.1		120	70-130			
Trichloroethylene	22.8	1.0 µg/L	20.1		114	70-130			
Trichlorofluoromethane	21.4	1.0 µg/L	20.1		106	60-140			
Vinyl chloride	12.6	1.0 µg/L	20.1		63	60-140			
Xylenes (total)	64.9	2.0 µg/L	60.2		108	70-130			
Surrogate: Toluene-d8	21.0	µg/L	20.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0219	mg/L	0.0200		110	70-130			
LCS (B3G2230-BS2)					Prepared: 2023-07-21, Analyzed: 2023-07-22				
Benzene	22.2	0.5 µg/L	20.1		110	70-130			
Bromodichloromethane	21.9	1.0 µg/L	20.1		109	70-130			
Bromoform	23.8	1.0 µg/L	20.1		118	70-130			
Carbon tetrachloride	19.8	0.5 µg/L	20.1		99	70-130			
Chlorobenzene	21.8	1.0 µg/L	20.1		108	70-130			
Chloroethane	21.1	2.0 µg/L	20.1		105	60-140			
Chloroform	0.0217	0.0010 mg/L	0.0201		108	70-130			
Dibromochloromethane	0.0240	0.0010 mg/L	0.0201		119	70-130			
1,2-Dibromoethane	23.4	0.3 µg/L	20.1		117	70-130			
Dibromomethane	21.0	1.0 µg/L	20.1		104	70-130			
1,2-Dichlorobenzene	21.6	0.5 µg/L	20.1		107	70-130			
1,3-Dichlorobenzene	21.0	1.0 µg/L	20.1		105	70-130			
1,4-Dichlorobenzene	20.8	1.0 µg/L	20.1		103	70-130			
1,1-Dichloroethane	20.6	1.0 µg/L	20.1		102	70-130			
1,2-Dichloroethane	20.5	1.0 µg/L	20.1		102	70-130			
1,1-Dichloroethylene	25.0	1.0 µg/L	20.1		125	70-130			
cis-1,2-Dichloroethylene	21.0	1.0 µg/L	20.1		104	70-130			
trans-1,2-Dichloroethylene	23.5	1.0 µg/L	20.1		117	70-130			
Dichloromethane	25.7	3.0 µg/L	20.1		128	70-130			
1,2-Dichloropropane	22.0	1.0 µg/L	20.1		110	70-130			
1,3-Dichloropropene (cis + trans)	40.3	1.0 µg/L	40.0		101	70-130			
Ethylbenzene	20.6	1.0 µg/L	20.1		102	70-130			
Methyl tert-butyl ether	22.5	1.0 µg/L	20.0		112	70-130			
Styrene	20.2	1.0 µg/L	20.1		101	70-130			
1,1,2,2-Tetrachloroethane	24.8	0.5 µg/L	20.1		123	70-130			
Tetrachloroethylene	20.0	1.0 µg/L	20.1		100	70-130			
Toluene	22.8	0.5 µg/L	20.1		113	70-130			
1,1,1-Trichloroethane	19.6	1.0 µg/L	20.1		97	70-130			
1,1,2-Trichloroethane	24.3	1.0 µg/L	20.1		121	70-130			
Trichloroethylene	22.6	1.0 µg/L	20.1		113	70-130			
Trichlorofluoromethane	21.0	1.0 µg/L	20.1		104	60-140			
Vinyl chloride	21.4	1.0 µg/L	20.1		106	60-140			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Newell Regional Services Corporation
Schedule 4

WORK ORDER REPORTED 23G2286
2023-08-08 14:48

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B3G2230, Continued									
LCS (B3G2230-BS2), Continued				Prepared: 2023-07-21, Analyzed: 2023-07-22					
Xylenes (total)	62.8	2.0 µg/L	60.2		104	70-130			
Surrogate: Toluene-d8	0.0188	mg/L	0.0200		94	70-130			
Surrogate: 4-Bromofluorobenzene	0.0191	mg/L	0.0200		96	70-130			

QC Qualifiers:

MES	A number up to 10% (rounded down) of the analytes in a Multi-Element Scan may exceed control limits by up to 10% (absolute).
MS2	The native sample concentration is greater than the spike concentration hence the matrix spike limits do not apply.
RA1	The Reporting Limit for this sample has been raised due to matrix interference.
RPD	Relative percent difference (RPD) of duplicate analysis are outside of control limits for unknown reason(s).
SPK	The recovery of this analyte was outside of established control limits.



CARO.ca 1-888-311-8846

#110-4011 Viking Way, Richmond, BC V6V 2K9
#102-3677 Highway 97N, Kelowna, BC V1X 5C3
17225 109 Avenue NW, Edmonton, AB T5S 1H7
#108-4475 Wayburne Dr, Burnaby, BC V5G 4X4

CHAIN OF CUSTODY RECORD

COC# 11978

PAGE 1 OF 1

CARO AB COC, Rev 2020-0

VICES
viously.

INVOICE TO: SAME AS REPORT TO

COMPANY:

ADDRESS:

CONTACT:

TEL/FAX:

DELIVERY METHOD:

EMAIL 1:

EMAIL 2:

EMAIL 3:

RELINQUISHED BY:

DATE: 01/21/2023

RECEIVED BY:

DATE:

TURNAROUND TIME REQUESTED:

REGULATORY APPLICATION:

TIME:

ROUTINE: (5-7 Days) ☐
Rush: 1 Day* ☐ 2 Day* ☐ 3 Day* ☐
Other* ☐

Canadian Drinking Water Quality ☐
AB T1 SOIL/GW: NA ☐ AG ☐ RES/PL ☐ CL ☐ IL ☐
AB SWQG: FWAL ☐ IW ☐ LW ☐
Other: ☐

Show on Report
AB WCR Class 9.3

PROJECT NUMBER / INFO:

CMC:

Other: ☐

Summit Analysis 2023 T1M1 H4A
Resample Quarter 3 Water 2360086

A: Biohazard
B: Cyanide
C: PCBs
D: Asbestos
E: Heavy Metals
F: Flammable
G: Strong Odour
H: High Contamination
I: Other (please specify*)

ANALYSES REQUESTED:

SAMPLED BY: Kyle Zahn

CLIENT SAMPLE ID: WHP Header #1

MATRIX: ☐ DRINKING WATER ☐ OTHER WATER ☐ SOIL ☐ OTHER

CONTAINER QTY: 1

DATE: 2023/07/11

TIME: 11:30

CHLORINATED ☐ FILTERED ☐ PRESERVED ☐

COMMENTS: (e.g. flow/volume media ID/notes)

SOIL PHC F1-F4 ☐ BTEX ☐

WATER PHC F1-F2 ☐ BTEX ☐

VOC ☐ THM ☐ PAH ☐ HAA ☐

DISSOLVED METALS ☐ Hg ☐ Cr6 ☐

TOTAL METALS ☐ Hg ☐ Cr6 ☐

SOIL METALS ☐ SatP B ☐ Cr6 ☐ Hg ☐

SOIL SALINITY ☐ BASIC ☐ DETAILED ☐

CLASS 2 LANDFILL ☐

ROUTINE WATER ☐ Fe+Mn ☐

COD ☐ BOD ☐ TOC ☐ DOC ☐

TSS ☐ TDS ☐ VSS ☐

AMMONIA ☐ TKN ☐ TP ☐

TO&G ☐ PHENOLICS ☐

TCOL ☐ E. Coli ☐ FCOL ☐ HPC ☐

TOXICITY TROUT ☐ DAPHNIA ☐

PSA HYDROMETER ☐ 75 um SIEVE ☐

Phends (specified)

HOLD

POSSIBLE SAMPLE HAZARD CODE(S)

SHIPPING INSTRUCTIONS: Return Cooler(s) ☐

SAMPLE RETENTION: 30 Days (default) ☐ 60 Days ☐ 90 Days ☐ Other (surcharges will apply):

OTHER INSTRUCTIONS: Water-trax asset for - Header #1 - AIT 17A1A-1
- Resample of Phenols from work order # 2360086

If you would like to talk to a real live Scientist about your project requirements, please check here: ☐

SAMPLE RECEIPT CONDITION: COOLER 1 (°C): 17.9 ICE: Y ☐ N ☐ COOLER 2 (°C): 16.1 ICE: Y ☐ N ☐ COOLER 3 (°C): 16.1 ICE: Y ☐ N ☐ CUSTODY SEALS INTACT: NA ☐ Y ☐ N ☐