



CERTIFICATE OF ANALYSIS

REPORTED TO	Mountainview Regional Water Services Commission 35566 Rge Rd 10 Red Deer County, AB T4G 0H5	WORK ORDER	24B1239
ATTENTION	Wesley Olstad	RECEIVED / TEMP REPORTED	2024-02-12 13:36 / 7.1°C 2024-02-29 07:53
PO NUMBER		COC NUMBER	B144650
PROJECT	Schedule 4 - Code of Practice		
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



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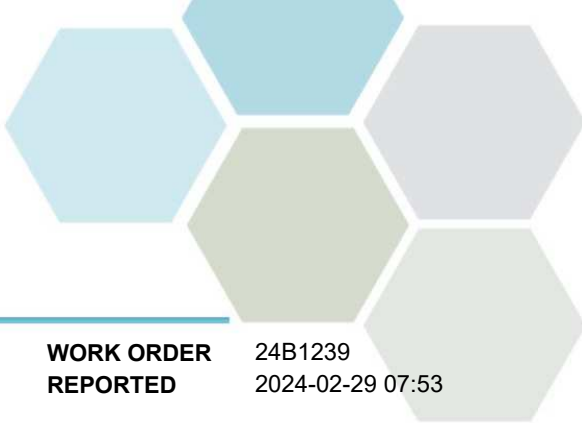
If you have any questions or concerns, please contact me at rpschyk@caro.ca

Authorized By:

Regan Pshyk
Account Manager

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TEST RESULTS

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WORK ORDER REPORTED 24B1239
2024-02-29 07:53

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Treated (24B1239-01) | Matrix: Water | Sampled: 2024-02-12

Acid Herbicides

3,5-Dichlorobenzoic acid	< 0.08	N/A	0.08	µg/L	2024-02-23	
Dicamba	0.007	MAC = 110	0.005	µg/L	2024-02-23	
MCPPP	< 0.08	N/A	0.08	µg/L	2024-02-23	
MCPA	< 0.02	MAC = 350	0.02	µg/L	2024-02-23	
Dichlorprop (2,4-DP)	< 0.08	N/A	0.08	µg/L	2024-02-23	
Bromoxynil	< 0.02	MAC = 30	0.02	µg/L	2024-02-23	
2,4-D	< 0.05	MAC = 100	0.05	µg/L	2024-02-23	
Pentachlorophenol	< 0.08	AO ≤ 30	0.08	µg/L	2024-02-23	
2,4,5-TP (silvex) methyl ester	< 0.08	N/A	0.08	µg/L	2024-02-23	
2,4,5-T	< 0.08	N/A	0.08	µg/L	2024-02-23	
Chloramben	< 1.00	N/A	1.00	µg/L	2024-02-23	
Dinoseb	< 0.02	N/A	0.02	µg/L	2024-02-23	
Bentazon	< 0.08	N/A	0.08	µg/L	2024-02-23	
2,4-DB	< 0.08	N/A	0.08	µg/L	2024-02-23	
Picloram	< 0.08	MAC = 190	0.08	µg/L	2024-02-23	
Diclofop-methyl	< 0.08	MAC = 9	0.08	µg/L	2024-02-23	

Anions

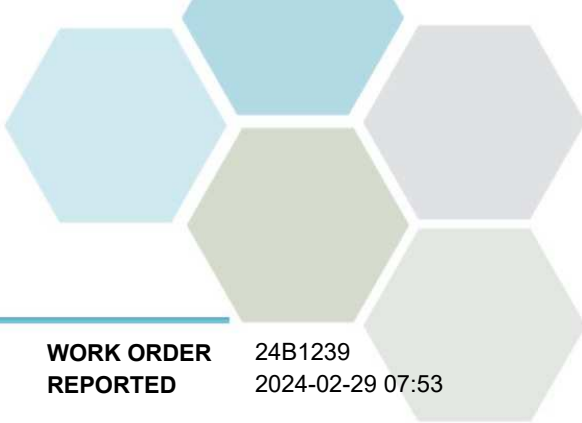
Bromate	< 0.010	MAC = 0.01	0.010	mg/L	2024-02-22	
Chloride	4.79	AO ≤ 250	0.50	mg/L	2024-02-12	
Fluoride	0.13	MAC = 1.5	0.10	mg/L	2024-02-12	
Nitrate (as N)	0.086	MAC = 10	0.050	mg/L	2024-02-12	
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2024-02-12	
Sulfate	59.9	AO ≤ 500	1.0	mg/L	2024-02-12	

Calculated Parameters

Chloramines	< 0.0400	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	0.0417	MAC = 0.1	0.00400	mg/L	N/A	
Ion Balance	103	N/A		%	N/A	
Hardness, Total (as CaCO3)	247	None Required	0.541	mg/L	N/A	
Nitrate+Nitrite (as N)	0.0862	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	274	AO ≤ 500	2.00	mg/L	N/A	

Chlorinated Phenols

2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2024-02-15	
3 & 4-Chlorophenol	< 0.10	N/A	0.10	µg/L	2024-02-15	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2024-02-15	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2024-02-15	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20	µg/L	2024-02-15	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2024-02-15	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2024-02-15	
3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2024-02-15	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2024-02-15	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2024-02-15	



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Treated (24B1239-01) | Matrix: Water | Sampled: 2024-02-12, Continued

Chlorinated Phenols, Continued

2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2024-02-15	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2024-02-15	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2024-02-15	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2024-02-15	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2024-02-15	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50	µg/L	2024-02-15	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2024-02-15	
Surrogate: 2,4-Dibromophenol	66		60-130	%	2024-02-15	
Surrogate: 2,4,6-Tribromophenol	70		60-130	%	2024-02-15	
Surrogate: Phenol-d6	106		70-130	%	2024-02-15	

General Parameters

Alkalinity, Total (as CaCO3)	186	N/A	2.0	mg/L	2024-02-16	
Bicarbonate (HCO3)	227	N/A	2.0	mg/L	2024-02-16	
Carbonate (CO3)	< 2.0	N/A	2.0	mg/L	2024-02-16	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	2024-02-16	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2024-02-16	
Carbon, Total Organic	2.72	N/A	0.50	mg/L	2024-02-15	
Chlorine, Total	0.83	None Required	0.02	mg/L	2024-02-17	HT2
Chlorine, Free	0.81	N/A	0.02	mg/L	2024-02-17	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-02-15	
Conductivity (EC)	479	N/A	2.0	µS/cm	2024-02-15	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-02-15	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	2024-02-16	
pH	7.92	7.0-10.5	0.10	pH units	2024-02-16	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2024-02-14	
Turbidity	0.32	OG < 1	0.10	NTU	2024-02-14	

Haloacetic Acids

Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Dichloroacetic Acid	0.0204	N/A	0.0020	mg/L	2024-02-20	
Trichloroacetic Acid	0.0160	N/A	0.0020	mg/L	2024-02-20	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Total Haloacetic Acids (HAA5)	0.0365	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	94		70-130	%	2024-02-20	

Microbiological Parameters

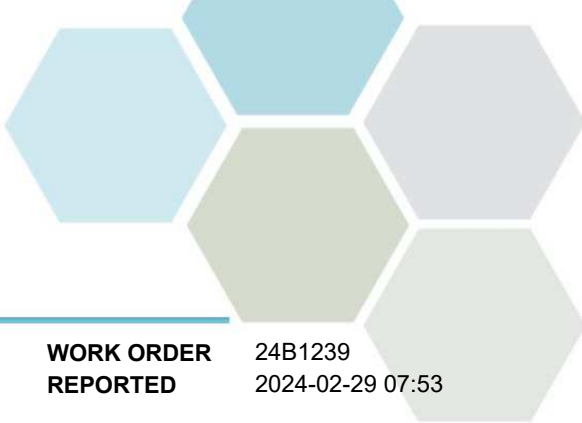
Microcystin, total	0.06	MAC = 1.5	0.05	µg/L	2024-02-23	
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Miscellaneous Herbicides

Glyphosate	< 0.05	MAC = 0.28	0.05	mg/L	2024-02-28	
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Pesticides, Herbicides, and Fungicides

Alachlor	< 0.100	N/A	0.100	µg/L	2024-02-20	
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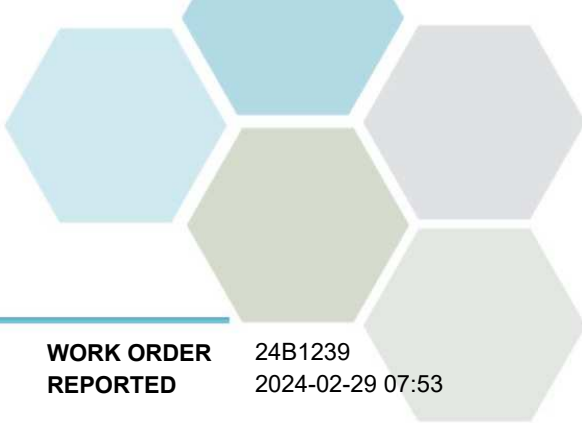


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Treated (24B1239-01) Matrix: Water Sampled: 2024-02-12, Continued						
<i>Pesticides, Herbicides, and Fungicides, Continued</i>						
Aldrin	< 0.006	N/A	0.006	µg/L	2024-02-20	
Atrazine	< 0.100	N/A	0.100	µg/L	2024-02-20	
Atrazine-desethyl	< 0.100	N/A	0.100	µg/L	2024-02-20	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2024-02-20	
Azinphos-methyl	< 0.200	MAC = 20	0.200	µg/L	2024-02-20	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2024-02-20	
beta-BHC	< 0.050	N/A	0.050	µg/L	2024-02-20	
delta-BHC	< 0.050	N/A	0.050	µg/L	2024-02-20	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2024-02-20	
Bromacil	< 0.100	N/A	0.100	µg/L	2024-02-20	
Bromoxynil	< 0.200	MAC = 30	0.200	µg/L	2024-02-20	
Captan	< 0.100	N/A	0.100	µg/L	2024-02-20	
alpha-Chlordane	< 0.050	N/A	0.050	µg/L	2024-02-20	
gamma-Chlordane	< 0.050	N/A	0.050	µg/L	2024-02-20	
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2024-02-20	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2024-02-20	
Cyanazine	< 0.100	N/A	0.100	µg/L	2024-02-20	
p,p'-DDD	< 0.010	N/A	0.010	µg/L	2024-02-20	
p,p'-DDE	< 0.010	N/A	0.010	µg/L	2024-02-20	
p,p'-DDT	< 0.010	N/A	0.010	µg/L	2024-02-20	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2024-02-20	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2024-02-20	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2024-02-20	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2024-02-20	
Dieldrin	< 0.010	N/A	0.010	µg/L	2024-02-20	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2024-02-20	
Disulfoton	< 0.100	N/A	0.100	µg/L	2024-02-20	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2024-02-20	
Endosulfan I	< 0.010	N/A	0.010	µg/L	2024-02-20	
Endosulfan II	< 0.010	N/A	0.010	µg/L	2024-02-20	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2024-02-20	
Endrin	< 0.020	N/A	0.020	µg/L	2024-02-20	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2024-02-20	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2024-02-20	
Fenchlorphos (Ronnel)	< 0.100	N/A	0.100	µg/L	2024-02-20	
Heptachlor	< 0.010	N/A	0.010	µg/L	2024-02-20	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2024-02-20	
Linuron	< 0.050	N/A	0.050	µg/L	2024-02-20	
Malathion	< 0.100	MAC = 290	0.100	µg/L	2024-02-20	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2024-02-20	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2024-02-20	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2024-02-20	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2024-02-20	



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Pesticides, Herbicides, and Fungicides, Continued

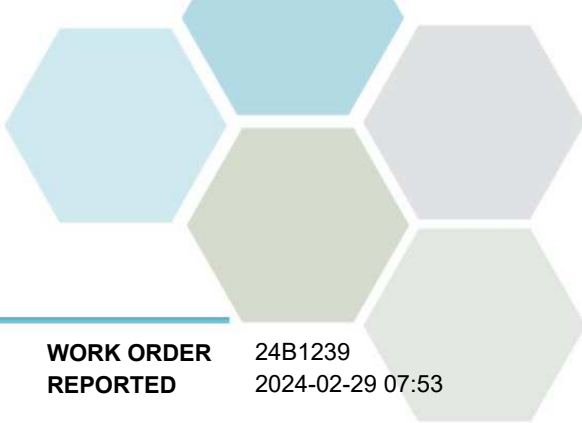
Parathion	< 0.100	N/A	0.100	µg/L	2024-02-20	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2024-02-20	
cis-Permethrin	< 0.010	N/A	0.010	µg/L	2024-02-20	
trans-Permethrin	< 0.010	N/A	0.010	µg/L	2024-02-20	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2024-02-20	
Prometon	< 0.300	N/A	0.300	µg/L	2024-02-20	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2024-02-20	
Sulfotep	< 0.100	N/A	0.100	µg/L	2024-02-20	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2024-02-20	
Temphos (Abate)	< 0.500	N/A	0.500	µg/L	2024-02-20	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2024-02-20	
Triallate	< 0.100	N/A	0.100	µg/L	2024-02-20	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2024-02-20	
Surrogate: Tributyl Phosphate	108		50-140	%	2024-02-20	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	111		50-140	%	2024-02-20	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	N/A	0.050	µg/L	2024-02-13	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2024-02-13	
Anthracene	< 0.010	N/A	0.010	µg/L	2024-02-13	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2024-02-13	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2024-02-13	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2024-02-13	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2024-02-13	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2024-02-13	
2-Chloronaphthalene	0.126	N/A	0.100	µg/L	2024-02-13	
Chrysene	< 0.050	N/A	0.050	µg/L	2024-02-13	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2024-02-13	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2024-02-13	
Fluorene	< 0.050	N/A	0.050	µg/L	2024-02-13	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2024-02-13	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2024-02-13	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2024-02-13	
Naphthalene	< 0.200	N/A	0.200	µg/L	2024-02-13	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2024-02-13	
Pyrene	< 0.020	N/A	0.020	µg/L	2024-02-13	
Quinoline	< 0.050	N/A	0.050	µg/L	2024-02-13	
Surrogate: Naphthalene-d8	111		50-140	%	2024-02-13	
Surrogate: Perylene-d12	123		50-140	%	2024-02-13	

Total Metals

Aluminum, total	0.0215	OG < 0.1	0.0050	mg/L	2024-02-14	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-02-14	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-02-14	



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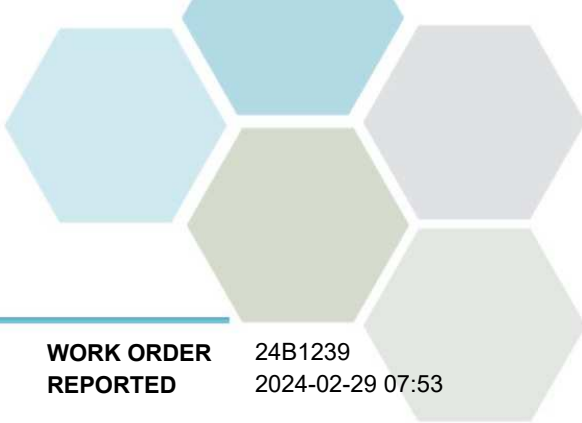
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Total Metals, Continued

Barium, total	0.123	MAC = 2	0.0050	mg/L	2024-02-14	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-02-14	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-02-14	
Calcium, total	66.5	None Required	0.20	mg/L	2024-02-14	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-02-14	
Copper, total	0.00042	MAC = 2	0.00040	mg/L	2024-02-14	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2024-02-14	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-02-14	
Magnesium, total	19.6	None Required	0.010	mg/L	2024-02-14	
Manganese, total	0.00804	MAC = 0.12	0.00020	mg/L	2024-02-14	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-02-15	
Potassium, total	1.28	N/A	0.10	mg/L	2024-02-14	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-02-14	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2024-02-14	
Sodium, total	7.63	AO ≤ 200	0.10	mg/L	2024-02-14	
Strontium, total	0.471	MAC = 7	0.0010	mg/L	2024-02-14	
Uranium, total	0.000274	MAC = 0.02	0.000020	mg/L	2024-02-14	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-02-14	

Volatile Organic Compounds (VOC)

Benzene	< 0.5	MAC = 5	0.5	µg/L	2024-02-14	
Bromodichloromethane	1.3	N/A	1.0	µg/L	2024-02-14	
Bromoform	< 1.0	N/A	1.0	µg/L	2024-02-14	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2024-02-14	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2024-02-14	
Chloroethane	< 2.0	N/A	2.0	µg/L	2024-02-14	
Chloroform	40.4	N/A	1.0	µg/L	2024-02-14	
Dibromochloromethane	< 1.0	N/A	1.0	µg/L	2024-02-14	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2024-02-14	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2024-02-14	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5	µg/L	2024-02-14	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2024-02-14	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2024-02-14	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2024-02-14	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2024-02-14	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0	µg/L	2024-02-14	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2024-02-14	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2024-02-14	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2024-02-14	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2024-02-14	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2024-02-14	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2024-02-14	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2024-02-14	



TEST RESULTS

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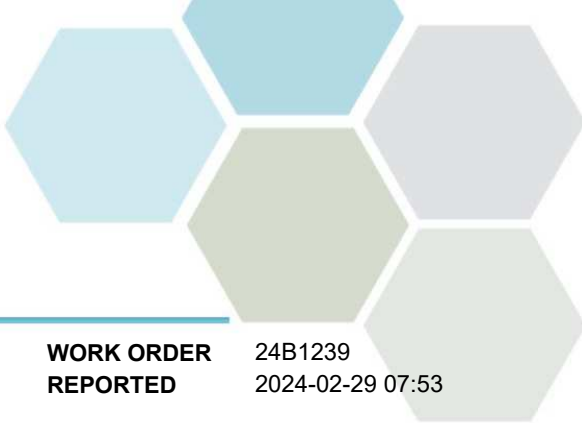
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated (24B1239-01) Matrix: Water Sampled: 2024-02-12, Continued						
<i>Volatile Organic Compounds (VOC), Continued</i>						
Styrene	< 1.0	N/A	1.0	µg/L	2024-02-14	
1,1,2,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2024-02-14	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2024-02-14	
Toluene	< 0.5	MAC = 60	0.5	µg/L	2024-02-14	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2024-02-14	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2024-02-14	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2024-02-14	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2024-02-14	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2024-02-14	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2024-02-14	
Surrogate: Toluene-d8	114		70-130	%	2024-02-14	
Surrogate: 4-Bromofluorobenzene	107		70-130	%	2024-02-14	

MPR-In (24B1239-02) | Matrix: Water | Sampled: 2024-02-12

<i>Calculated Parameters</i>						
Total Trihalomethanes	0.0267	MAC = 0.1	0.00400	mg/L		N/A
<i>Haloacetic Acids</i>						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Dichloroacetic Acid	0.0096	N/A	0.0020	mg/L	2024-02-20	
Trichloroacetic Acid	0.0098	N/A	0.0020	mg/L	2024-02-20	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Total Haloacetic Acids (HAA5)	0.0194	MAC = 0.08	0.00200	mg/L		N/A
Surrogate: 2-Bromopropionic Acid	97		70-130	%	2024-02-20	
<i>Volatile Organic Compounds (VOC)</i>						
Bromodichloromethane	< 0.0010	N/A	0.0010	mg/L	2024-02-14	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-02-14	
Chloroform	0.0267	N/A	0.0010	mg/L	2024-02-14	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-02-14	
Surrogate: Toluene-d8	116		70-130	%	2024-02-14	
Surrogate: 4-Bromofluorobenzene	107		70-130	%	2024-02-14	

MPR-Out (24B1239-03) | Matrix: Water | Sampled: 2024-02-12

<i>Calculated Parameters</i>						
Total Trihalomethanes	0.0346	MAC = 0.1	0.00400	mg/L		N/A
<i>Haloacetic Acids</i>						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	



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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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MPR-Out (24B1239-03) | Matrix: Water | Sampled: 2024-02-12, Continued

Haloacetic Acids, Continued

Dichloroacetic Acid	0.0138	N/A	0.0020	mg/L	2024-02-20	
Trichloroacetic Acid	0.0124	N/A	0.0020	mg/L	2024-02-20	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Total Haloacetic Acids (HAA5)	0.0262	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	99		70-130	%	2024-02-20	

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0012	N/A	0.0010	mg/L	2024-02-14	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-02-14	
Chloroform	0.0333	N/A	0.0010	mg/L	2024-02-14	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-02-14	
Surrogate: Toluene-d8	116		70-130	%	2024-02-14	
Surrogate: 4-Bromofluorobenzene	104		70-130	%	2024-02-14	

Plant (24B1239-04) | Matrix: Water | Sampled: 2024-02-12

Calculated Parameters

Total Trihalomethanes	0.0197	MAC = 0.1	0.00400	mg/L	N/A	
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Haloacetic Acids

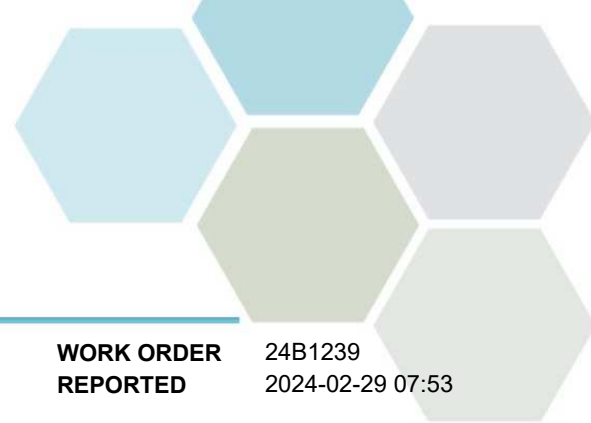
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Dichloroacetic Acid	0.0080	N/A	0.0020	mg/L	2024-02-20	
Trichloroacetic Acid	0.0074	N/A	0.0020	mg/L	2024-02-20	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-20	
Total Haloacetic Acids (HAA5)	0.0154	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	98		70-130	%	2024-02-20	

Volatile Organic Compounds (VOC)

Bromodichloromethane	< 0.0010	N/A	0.0010	mg/L	2024-02-14	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-02-14	
Chloroform	0.0197	N/A	0.0010	mg/L	2024-02-14	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-02-14	
Surrogate: Toluene-d8	112		70-130	%	2024-02-14	
Surrogate: 4-Bromofluorobenzene	103		70-130	%	2024-02-14	

Sample Qualifiers:

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



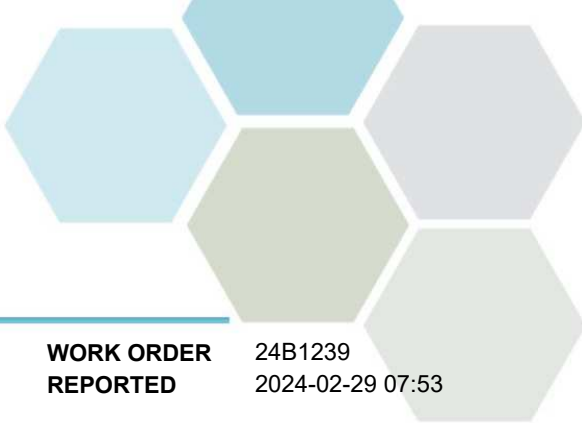
APPENDIX 1: SUPPORTING INFORMATION

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Analysis Description	Method Ref.	Technique	Accredited	Location
Acid Herbicides in Water	In-House	N/A		Sublet
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	Journal	N/A		Sublet
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
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: rpshyk@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
Anions, Batch B4B2146									
Blank (B4B2146-BLK1)			Prepared: 2024-02-12, Analyzed: 2024-02-12						
Chloride	< 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 (B4B2146-BS1)			Prepared: 2024-02-12, Analyzed: 2024-02-12						
Chloride	9.10	0.50 mg/L	10.0		91	90-110			
Fluoride	0.95	0.10 mg/L	1.00		95	85-115			
Nitrate (as N)	0.946	0.050 mg/L	1.00		95	92-108			
Nitrite (as N)	0.461	0.050 mg/L	0.500		92	85-115			
Sulfate	49.5	1.0 mg/L	50.0		99	90-110			
Duplicate (B4B2146-DUP1)			Source: 24B1239-01		Prepared: 2024-02-12, Analyzed: 2024-02-12				
Chloride	4.80	0.50 mg/L		4.79			< 1		7
Fluoride	0.13	0.10 mg/L		0.13					15
Nitrate (as N)	0.090	0.050 mg/L		0.086					12
Nitrite (as N)	< 0.050	0.050 mg/L		< 0.050					18
Sulfate	58.7	1.0 mg/L		59.9			2		8
Matrix Spike (B4B2146-MS1)			Source: 24B1239-01		Prepared: 2024-02-12, Analyzed: 2024-02-12				
Chloride	14.4	0.50 mg/L	10.0	4.79	96	85-115			
Fluoride	0.97	0.10 mg/L	1.00	0.13	84	85-115			MS1
Nitrate (as N)	1.09	0.050 mg/L	1.00	0.086	100	87-111			
Nitrite (as N)	0.314	0.050 mg/L	0.500	< 0.050	63	81-127			MS1
Sulfate	100	10.0 mg/L	50.0	59.9	81	85-115			MS1

Chlorinated Phenols, Batch B4B2338

Blank (B4B2338-BLK1)			Prepared: 2024-02-14, Analyzed: 2024-02-15						
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							



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 B4B2338, Continued									
Blank (B4B2338-BLK1), Continued					Prepared: 2024-02-14, Analyzed: 2024-02-15				
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	1.64	µg/L	2.36		69	60-130			
Surrogate: 2,4,6-Tribromophenol	2.01	µg/L	2.68		75	60-130			
Surrogate: Phenol-d6	2.52	µg/L	2.52		100	70-130			
LCS (B4B2338-BS1)					Prepared: 2024-02-14, Analyzed: 2024-02-15				
2-Chlorophenol	8.55	0.10 µg/L	10.0		86	60-130			
3 & 4-Chlorophenol	15.5	0.10 µg/L	20.0		78	60-130			
4-Chloro-3-Methylphenol	10.5	0.50 µg/L	10.8		97	60-130			
2,3-Dichlorophenol	8.89	0.20 µg/L	10.0		89	60-130			
2,4 & 2,5-Dichlorophenol	18.3	0.20 µg/L	20.0		91	60-130			
2,6-Dichlorophenol	8.83	0.20 µg/L	10.0		88	60-130			
3,4-Dichlorophenol	9.78	0.20 µg/L	10.0		98	60-130			
3,5-Dichlorophenol	10.9	0.20 µg/L	10.0		109	60-130			
2,3,4-Trichlorophenol	9.19	0.50 µg/L	10.0		92	60-130			
2,3,5-Trichlorophenol	10.2	0.50 µg/L	10.0		102	60-130			
2,3,6-Trichlorophenol	8.96	0.50 µg/L	10.0		90	60-130			
2,4,5-Trichlorophenol	9.69	0.50 µg/L	10.0		97	60-130			
2,4,6-Trichlorophenol	9.36	0.50 µg/L	10.0		94	60-130			
3,4,5-Trichlorophenol	10.4	0.50 µg/L	10.0		104	60-130			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	19.9	0.50 µg/L	20.0		99	60-130			
2,3,4,6-Tetrachlorophenol	7.79	0.50 µg/L	10.0		78	60-130			
Pentachlorophenol	12.7	0.50 µg/L	10.0		127	60-130			
Surrogate: 2,4-Dibromophenol	2.03	µg/L	2.36		86	60-130			
Surrogate: 2,4,6-Tribromophenol	2.69	µg/L	2.68		100	60-130			
Surrogate: Phenol-d6	2.43	µg/L	2.52		96	70-130			
LCS Dup (B4B2338-BSD1)					Prepared: 2024-02-14, Analyzed: 2024-02-15				
2-Chlorophenol	7.98	0.10 µg/L	10.0		80	60-130	7	40	
3 & 4-Chlorophenol	14.7	0.10 µg/L	20.0		74	60-130	5	40	
4-Chloro-3-Methylphenol	10.4	0.50 µg/L	10.8		97	60-130	< 1	40	
2,3-Dichlorophenol	8.42	0.20 µg/L	10.0		84	60-130	5	40	
2,4 & 2,5-Dichlorophenol	17.3	0.20 µg/L	20.0		86	60-130	6	40	
2,6-Dichlorophenol	8.29	0.20 µg/L	10.0		83	60-130	6	40	
3,4-Dichlorophenol	9.63	0.20 µg/L	10.0		96	60-130	2	40	
3,5-Dichlorophenol	10.6	0.20 µg/L	10.0		106	60-130	3	40	
2,3,4-Trichlorophenol	9.22	0.50 µg/L	10.0		92	60-130	< 1	40	
2,3,5-Trichlorophenol	10.2	0.50 µg/L	10.0		102	60-130	< 1	40	
2,3,6-Trichlorophenol	9.01	0.50 µg/L	10.0		90	60-130	< 1	40	
2,4,5-Trichlorophenol	10.1	0.50 µg/L	10.0		101	60-130	5	40	
2,4,6-Trichlorophenol	8.94	0.50 µg/L	10.0		89	60-130	5	40	
3,4,5-Trichlorophenol	10.6	0.50 µg/L	10.0		106	60-130	2	40	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	20.5	0.50 µg/L	20.0		102	60-130	3	40	
2,3,4,6-Tetrachlorophenol	7.75	0.50 µg/L	10.0		78	60-130	< 1	40	
Pentachlorophenol	12.6	0.50 µg/L	10.0		126	60-130	1	40	
Surrogate: 2,4-Dibromophenol	1.88	µg/L	2.36		80	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 B4B2338, Continued									
LCS Dup (B4B2338-BSD1), Continued			Prepared: 2024-02-14, Analyzed: 2024-02-15						
Surrogate: 2,4,6-Tribromophenol	2.56	µg/L	2.68		96	60-130			
Surrogate: Phenol-d6	2.50	µg/L	2.52		99	70-130			
General Parameters, Batch B4B2159									
Blank (B4B2159-BLK1)			Prepared: 2024-02-13, Analyzed: 2024-02-15						
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B4B2159-BLK2)			Prepared: 2024-02-13, Analyzed: 2024-02-15						
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B4B2159-BLK3)			Prepared: 2024-02-13, Analyzed: 2024-02-15						
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B4B2159-BLK4)			Prepared: 2024-02-14, Analyzed: 2024-02-15						
Carbon, Total Organic	< 0.50	0.50 mg/L							
LCS (B4B2159-BS1)			Prepared: 2024-02-13, Analyzed: 2024-02-15						
Carbon, Total Organic	10.2	0.50 mg/L	10.0		102	78-116			
LCS (B4B2159-BS2)			Prepared: 2024-02-13, Analyzed: 2024-02-15						
Carbon, Total Organic	9.92	0.50 mg/L	10.0		99	78-116			
LCS (B4B2159-BS3)			Prepared: 2024-02-13, Analyzed: 2024-02-15						
Carbon, Total Organic	10.5	0.50 mg/L	10.0		105	78-116			
LCS (B4B2159-BS4)			Prepared: 2024-02-14, Analyzed: 2024-02-15						
Carbon, Total Organic	10.5	0.50 mg/L	10.0		105	78-116			
Duplicate (B4B2159-DUP4)			Source: 24B1239-01		Prepared: 2024-02-14, Analyzed: 2024-02-15				
Carbon, Total Organic	2.81	0.50 mg/L		2.72			3	16	
Matrix Spike (B4B2159-MS4)			Source: 24B1239-01		Prepared: 2024-02-14, Analyzed: 2024-02-15				
Carbon, Total Organic	11.2	0.50 mg/L	10.0	2.72	85	70-130			
General Parameters, Batch B4B2277									
Blank (B4B2277-BLK1)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Cyanide, Total	< 0.0020	0.0020 mg/L							
Blank (B4B2277-BLK2)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Cyanide, Total	< 0.0020	0.0020 mg/L							
Blank (B4B2277-BLK3)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B4B2277-BS1)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Cyanide, Total	0.0189	0.0020 mg/L	0.0200		94	82-120			
LCS (B4B2277-BS2)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Cyanide, Total	0.0177	0.0020 mg/L	0.0200		88	82-120			
LCS (B4B2277-BS3)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Cyanide, Total	0.0194	0.0020 mg/L	0.0200		97	82-120			
LCS Dup (B4B2277-BSD1)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Cyanide, Total	0.0185	0.0020 mg/L	0.0200		92	82-120	2	10	



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B4B2277, Continued									
LCS Dup (B4B2277-BSD2)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Cyanide, Total	0.0185	0.0020 mg/L	0.0200		92	82-120	5	10	
LCS Dup (B4B2277-BSD3)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Cyanide, Total	0.0197	0.0020 mg/L	0.0200		99	82-120	2	10	
General Parameters, Batch B4B2346									
Blank (B4B2346-BLK1)			Prepared: 2024-02-14, Analyzed: 2024-02-14						
Sulfide, Total	< 0.020	0.020 mg/L							
LCS (B4B2346-BS1)			Prepared: 2024-02-14, Analyzed: 2024-02-14						
Sulfide, Total	0.446	0.020 mg/L	0.530		84	80-120			
Duplicate (B4B2346-DUP1)			Source: 24B1239-01			Prepared: 2024-02-14, Analyzed: 2024-02-14			
Sulfide, Total	< 0.020	0.020 mg/L		< 0.020				15	
General Parameters, Batch B4B2387									
Blank (B4B2387-BLK1)			Prepared: 2024-02-14, Analyzed: 2024-02-14						
Turbidity	< 0.10	0.10 NTU							
LCS (B4B2387-BS1)			Prepared: 2024-02-14, Analyzed: 2024-02-14						
Turbidity	39.5	0.10 NTU	40.0		99	90-110			
General Parameters, Batch B4B2433									
Blank (B4B2433-BLK1)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B4B2433-BS1)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Conductivity (EC)	1010	2.0 µS/cm	1000		101	95-105			
General Parameters, Batch B4B2515									
Blank (B4B2515-BLK1)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Colour, True	< 5.0	5.0 CU							
LCS (B4B2515-BS1)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Colour, True	24	5.0 CU	25.0		97	90-109			
General Parameters, Batch B4B2549									
Blank (B4B2549-BLK1)			Prepared: 2024-02-16, Analyzed: 2024-02-16						
Alkalinity, Total (as CaCO3)	< 2.0	2.0 mg/L							
Bicarbonate (HCO3)	2.0	2.0 mg/L							BLK
Carbonate (CO3)	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							
pH	< 0.10	0.10 pH units							
LCS (B4B2549-BS1)			Prepared: 2024-02-16, Analyzed: 2024-02-16						
Alkalinity, Total (as CaCO3)	254	2.0 mg/L	250		102	94-108			
Duplicate (B4B2549-DUP1)			Source: 24B1239-01			Prepared: 2024-02-16, Analyzed: 2024-02-16			
Alkalinity, Total (as CaCO3)	188	2.0 mg/L		186			< 1	7	
Bicarbonate (HCO3)	229	2.0 mg/L		227			< 1	7	



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General Parameters, Batch B4B2549, Continued

Duplicate (B4B2549-DUP1), Continued		Source: 24B1239-01		Prepared: 2024-02-16, Analyzed: 2024-02-16					
Carbonate (CO3)	< 2.0	2.0 mg/L		< 2.0					7
Hydroxide (OH)	< 2.0	2.0 mg/L		< 2.0					7
pH	7.93	0.10 pH units		7.92			< 1		1.5

Reference (B4B2549-SRM1)		Prepared: 2024-02-16, Analyzed: 2024-02-16							
pH	7.15	0.10 pH units	7.00		102	98-102			

General Parameters, Batch B4B2554

Blank (B4B2554-BLK1)		Prepared: 2024-02-16, Analyzed: 2024-02-16							
Nitritotriacetic Acid	< 0.20	0.20 mg/L							

LCS (B4B2554-BS1)		Prepared: 2024-02-16, Analyzed: 2024-02-16							
Nitritotriacetic Acid	1.16	0.20 mg/L	1.00		116	80-120			

General Parameters, Batch B4B2559

Blank (B4B2559-BLK1)		Prepared: 2024-02-16, Analyzed: 2024-02-16							
Ammonia, Total (as N)	< 0.050	0.050 mg/L							

LCS (B4B2559-BS1)		Prepared: 2024-02-16, Analyzed: 2024-02-16							
Ammonia, Total (as N)	0.189	0.050 mg/L	0.200		94	85-115			

General Parameters, Batch B4B2703

Blank (B4B2703-BLK1)		Prepared: 2024-02-17, Analyzed: 2024-02-17							
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	0.02	0.02 mg/L							BLK

Duplicate (B4B2703-DUP1)		Source: 24B1239-01		Prepared: 2024-02-17, Analyzed: 2024-02-17					
Chlorine, Total	0.81	0.02 mg/L		0.83			2		10
Chlorine, Free	0.79	0.02 mg/L		0.81			2		20

Reference (B4B2703-SRM1)		Prepared: 2024-02-17, Analyzed: 2024-02-17							
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			

Haloacetic Acids, Batch B4B2525

Blank (B4B2525-BLK1)		Prepared: 2024-02-15, Analyzed: 2024-02-20							
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	0.0105	mg/L	0.0116		91	70-130			

LCS (B4B2525-BS1)		Prepared: 2024-02-15, Analyzed: 2024-02-20							
Monochloroacetic Acid	0.0544	0.0020 mg/L	0.0564		96	75-117			
Monobromoacetic Acid	0.0352	0.0020 mg/L	0.0374		94	83-113			
Dichloroacetic Acid	0.0541	0.0020 mg/L	0.0558		97	78-112			
Trichloroacetic Acid	0.0181	0.0020 mg/L	0.0186		97	81-110			
Dibromoacetic Acid	0.0200	0.0020 mg/L	0.0187		107	89-112			
Surrogate: 2-Bromopropionic Acid	0.0116	mg/L	0.0116		100	70-130			



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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 B4B2525, Continued

LCS Dup (B4B2525-BSD1)

Prepared: 2024-02-15, Analyzed: 2024-02-20

Monochloroacetic Acid	0.0582	0.0020 mg/L	0.0564		103	75-117	7	30	
Monobromoacetic Acid	0.0399	0.0020 mg/L	0.0374		107	83-113	12	30	
Dichloroacetic Acid	0.0581	0.0020 mg/L	0.0558		104	78-112	7	30	
Trichloroacetic Acid	0.0192	0.0020 mg/L	0.0186		103	81-110	6	30	
Dibromoacetic Acid	0.0175	0.0020 mg/L	0.0187		94	89-112	13	30	
Surrogate: 2-Bromopropionic Acid	0.0117	mg/L	0.0116		101	70-130			

Matrix Spike (B4B2525-MS1)

Source: 24B1239-01

Prepared: 2024-02-15, Analyzed: 2024-02-20

Monochloroacetic Acid	0.0522	0.0020 mg/L	0.0564	< 0.0020	89	60-140			
Monobromoacetic Acid	0.0379	0.0020 mg/L	0.0374	< 0.0020	101	60-140			
Dichloroacetic Acid	0.0719	0.0020 mg/L	0.0558	0.0204	92	60-140			
Trichloroacetic Acid	0.0318	0.0020 mg/L	0.0186	0.0160	85	60-140			
Dibromoacetic Acid	0.0170	0.0020 mg/L	0.0187	< 0.0020	91	60-140			
Surrogate: 2-Bromopropionic Acid	0.0104	mg/L	0.0116		90	70-130			

Pesticides, Herbicides, and Fungicides, Batch B4B2717

Blank (B4B2717-BLK1)

Prepared: 2024-02-18, Analyzed: 2024-02-20

Alachlor	< 0.100	0.100 µg/L							
Aldrin	< 0.006	0.006 µg/L							
Atrazine	< 0.100	0.100 µg/L							
Atrazine-desethyl	< 0.100	0.100 µg/L							
Atrazine and metabolites	< 0.100	0.100 µg/L							
Azinphos-methyl	< 0.200	0.200 µg/L							
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							
Captan	< 0.100	0.100 µg/L							
alpha-Chlordane	< 0.050	0.050 µg/L							
gamma-Chlordane	< 0.050	0.050 µg/L							
Chlorothalonil	< 0.050	0.050 µg/L							
Chlorpyrifos	< 0.010	0.010 µg/L							
Cyanazine	< 0.100	0.100 µg/L							
p,p-DDD	< 0.010	0.010 µg/L							
p,p'-DDE	< 0.010	0.010 µg/L							
p,p'-DDT	< 0.010	0.010 µg/L							
Deltamethrin	< 0.100	0.100 µg/L							
Diazinon	< 0.020	0.020 µg/L							
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	< 0.010	0.010 µg/L							
Endosulfan 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 (Ronnel)	< 0.100	0.100 µg/L							
Heptachlor	< 0.010	0.010 µg/L							
Heptachlor epoxide	< 0.010	0.010 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 B4B2717, Continued									
Blank (B4B2717-BLK1), Continued					Prepared: 2024-02-18, Analyzed: 2024-02-20				
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	< 0.200	0.200 µg/L							
Parathion	< 0.100	0.100 µg/L							
Pentachloronitrobenzene	< 0.100	0.100 µg/L							
cis-Permethrin	< 0.010	0.010 µg/L							
trans-Permethrin	< 0.010	0.010 µg/L							
Phorate	< 0.100	0.100 µg/L							
Prometon	< 0.300	0.300 µg/L							
Simazine	< 0.200	0.200 µg/L							
Sulfotep	< 0.100	0.100 µg/L							
Tebuthiuron	< 0.200	0.200 µg/L							
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	0.889	µg/L	0.998		89	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.981	µg/L	0.970		101	50-140			
LCS (B4B2717-BS1)					Prepared: 2024-02-18, Analyzed: 2024-02-20				
Alachlor	1.17	0.100 µg/L	1.01		116	50-140			
Aldrin	1.08	0.006 µg/L	1.00		108	50-140			
Atrazine	1.13	0.100 µg/L	1.01		112	50-140			
Atrazine-desethyl	0.722	0.100 µg/L	1.06		68	50-140			
Atrazine and metabolites	1.85	0.100 µg/L	2.01		92	50-140			
Azinphos-methyl	1.10	0.200 µg/L	1.04		105	50-140			
alpha-BHC	1.05	0.010 µg/L	1.00		105	50-140			
beta-BHC	1.07	0.050 µg/L	1.00		107	50-140			
delta-BHC	1.05	0.050 µg/L	1.00		105	50-140			
gamma-BHC (Lindane)	1.08	0.050 µg/L	1.00		108	50-140			
Bromacil	0.939	0.100 µg/L	1.00		94	50-140			
Bromoxynil	1.28	0.200 µg/L	1.08		119	50-140			
Captan	0.883	0.100 µg/L	1.08		82	50-140			
alpha-Chlordane	0.986	0.050 µg/L	1.00		99	50-140			
gamma-Chlordane	1.01	0.050 µg/L	1.00		101	50-140			
Chlorothalonil	1.07	0.050 µg/L	0.996		108	50-140			
Chlorpyrifos	1.04	0.010 µg/L	1.00		104	50-140			
Cyanazine	1.13	0.100 µg/L	1.00		113	50-140			
p,p'-DDD	1.16	0.010 µg/L	1.00		116	50-140			
p,p'-DDE	1.11	0.010 µg/L	1.00		111	50-140			
p,p'-DDT	1.03	0.010 µg/L	1.00		103	50-140			
Deltamethrin	0.779	0.100 µg/L	1.00		78	50-140			
Diazinon	1.13	0.020 µg/L	1.01		112	50-140			
Dichlorvos	1.23	0.100 µg/L	1.06		116	50-140			
Diclofop-methyl	1.19	0.100 µg/L	1.06		112	50-140			
Dieldrin	1.15	0.010 µg/L	1.00		115	50-140			
Dimethoate	0.963	0.200 µg/L	1.01		95	50-140			
Disulfoton	1.07	0.100 µg/L	0.996		108	50-140			
Diuron	1.27	0.200 µg/L	1.05		121	50-140			
Endosulfan I	1.07	0.010 µg/L	1.00		107	50-140			
Endosulfan II	1.07	0.010 µg/L	1.00		107	50-140			
Endosulfan sulfate	1.15	0.050 µg/L	1.00		115	50-140			
Endrin	1.06	0.020 µg/L	1.00		106	50-140			



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Pesticides, Herbicides, and Fungicides, Batch B4B2717, Continued

LCS (B4B2717-BS1), Continued

Prepared: 2024-02-18, Analyzed: 2024-02-20

Endrin aldehyde	0.983	0.020 µg/L	0.999		98	50-140			
Endrin ketone	1.23	0.020 µg/L	1.00		123	50-140			
Fenchlorphos (Ronnel)	1.16	0.100 µg/L	0.990		117	50-140			
Heptachlor	1.15	0.010 µg/L	1.00		115	50-140			
Heptachlor epoxide	1.09	0.010 µg/L	1.00		109	50-140			
Linuron	0.719	0.050 µg/L	1.00		72	50-140			
Malathion	1.20	0.100 µg/L	1.00		120	50-140			
Methoxychlor	1.07	0.050 µg/L	1.00		107	50-140			
Methyl parathion	1.19	0.100 µg/L	1.04		115	50-140			
Metolachlor	1.19	0.100 µg/L	1.00		119	50-140			
Metribuzin	1.10	0.200 µg/L	1.00		110	50-140			
Parathion	1.24	0.100 µg/L	1.01		123	50-140			
Pentachloronitrobenzene	1.18	0.100 µg/L	0.989		119	50-140			
cis-Permethrin	0.542	0.010 µg/L	0.334		162	50-140			SPK1
trans-Permethrin	0.618	0.010 µg/L	0.676		91	50-140			
Phorate	1.07	0.100 µg/L	1.04		103	50-140			
Prometon	1.15	0.300 µg/L	1.00		115	50-140			
Simazine	1.11	0.200 µg/L	1.01		110	50-140			
Sulfotep	1.25	0.100 µg/L	1.04		120	50-140			
Tebuthiuron	1.21	0.200 µg/L	1.00		121	50-140			
Temephos (Abate)	6.90	0.500 µg/L	9.98		69	50-140			
Terbufos	1.09	0.100 µg/L	1.00		109	50-140			
Triallate	1.27	0.100 µg/L	1.04		122	50-140			
Trifluralin	1.18	0.200 µg/L	1.00		118	50-140			
Surrogate: Tributyl Phosphate	1.18	µg/L	0.998		118	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	1.06	µg/L	0.970		109	50-140			

LCS Dup (B4B2717-BS1)

Prepared: 2024-02-18, Analyzed: 2024-02-20

Alachlor	1.17	0.100 µg/L	1.01		116	50-140	< 1	30	
Aldrin	1.10	0.006 µg/L	1.00		110	50-140	1	30	
Atrazine	1.13	0.100 µg/L	1.01		112	50-140	< 1	30	
Atrazine-desethyl	0.726	0.100 µg/L	1.06		69	50-140	< 1	30	
Atrazine and metabolites	1.86	0.100 µg/L	2.01		93	50-140	< 1	30	
Azinphos-methyl	1.19	0.200 µg/L	1.04		114	50-140	8	30	
alpha-BHC	1.04	0.010 µg/L	1.00		104	50-140	1	30	
beta-BHC	1.08	0.050 µg/L	1.00		108	50-140	1	30	
delta-BHC	1.05	0.050 µg/L	1.00		105	50-140	< 1	30	
gamma-BHC (Lindane)	1.05	0.050 µg/L	1.00		105	50-140	3	30	
Bromacil	1.02	0.100 µg/L	1.00		102	50-140	9	30	
Bromoxynil	1.27	0.200 µg/L	1.08		118	50-140	< 1	30	
Captan	0.933	0.100 µg/L	1.08		86	50-140	6	30	
alpha-Chlordane	1.01	0.050 µg/L	1.00		101	50-140	2	30	
gamma-Chlordane	1.05	0.050 µg/L	1.00		105	50-140	4	30	
Chlorothalonil	1.04	0.050 µg/L	0.996		105	50-140	3	30	
Chlorpyrifos	1.07	0.010 µg/L	1.00		107	50-140	2	30	
Cyanazine	1.15	0.100 µg/L	1.00		115	50-140	1	30	
p,p'-DDD	1.19	0.010 µg/L	1.00		119	50-140	3	30	
p,p'-DDE	1.10	0.010 µg/L	1.00		110	50-140	< 1	30	
p,p'-DDT	1.04	0.010 µg/L	1.00		104	50-140	2	30	
Deltamethrin	0.888	0.100 µg/L	1.00		89	50-140	13	30	
Diazinon	1.08	0.020 µg/L	1.01		107	50-140	4	30	
Dichlorvos	1.24	0.100 µg/L	1.06		117	50-140	< 1	30	
Diclofop-methyl	1.21	0.100 µg/L	1.06		114	50-140	2	30	
Dieldrin	1.14	0.010 µg/L	1.00		114	50-140	1	30	
Dimethoate	1.02	0.200 µg/L	1.01		101	50-140	6	30	
Disulfoton	1.08	0.100 µg/L	0.996		108	50-140	< 1	30	



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B4B2717, Continued									
LCS Dup (B4B2717-BSD1), Continued					Prepared: 2024-02-18, Analyzed: 2024-02-20				
Diuron	1.27	0.200 µg/L	1.05		121	50-140	< 1	30	
Endosulfan I	1.09	0.010 µg/L	1.00		109	50-140	2	30	
Endosulfan II	1.09	0.010 µg/L	1.00		109	50-140	2	30	
Endosulfan sulfate	1.15	0.050 µg/L	1.00		115	50-140	< 1	30	
Endrin	1.07	0.020 µg/L	1.00		107	50-140	< 1	30	
Endrin aldehyde	1.00	0.020 µg/L	0.999		100	50-140	2	30	
Endrin ketone	1.23	0.020 µg/L	1.00		123	50-140	< 1	30	
Fenchlorphos (Ronnell)	1.14	0.100 µg/L	0.990		115	50-140	2	30	
Heptachlor	1.12	0.010 µg/L	1.00		112	50-140	3	30	
Heptachlor epoxide	1.11	0.010 µg/L	1.00		111	50-140	1	30	
Linuron	0.963	0.050 µg/L	1.00		96	50-140	29	30	
Malathion	1.19	0.100 µg/L	1.00		119	50-140	1	30	
Methoxychlor	1.11	0.050 µg/L	1.00		111	50-140	4	30	
Methyl parathion	1.23	0.100 µg/L	1.04		118	50-140	3	30	
Metolachlor	1.16	0.100 µg/L	1.00		116	50-140	2	30	
Metribuzin	1.11	0.200 µg/L	1.00		111	50-140	< 1	30	
Parathion	1.27	0.100 µg/L	1.01		126	50-140	3	30	
Pentachloronitrobenzene	1.18	0.100 µg/L	0.989		120	50-140	< 1	30	
cis-Permethrin	0.585	0.010 µg/L	0.334		175	50-140	8	30	SPK1
trans-Permethrin	0.674	0.010 µg/L	0.676		100	50-140	9	30	
Phorate	1.08	0.100 µg/L	1.04		104	50-140	1	30	
Prometon	1.16	0.300 µg/L	1.00		116	50-140	< 1	30	
Simazine	1.10	0.200 µg/L	1.01		109	50-140	< 1	30	
Sulfotep	1.19	0.100 µg/L	1.04		115	50-140	4	30	
Tebuthiuron	1.25	0.200 µg/L	1.00		125	50-140	3	30	
Temephos (Abate)	8.44	0.500 µg/L	9.98		85	50-140	20	30	
Terbufos	1.09	0.100 µg/L	1.00		109	50-140	< 1	30	
Triallate	1.22	0.100 µg/L	1.04		117	50-140	4	30	
Trifluralin	1.16	0.200 µg/L	1.00		116	50-140	2	30	
Surrogate: Tributyl Phosphate	1.21	µg/L	0.998		122	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	1.06	µg/L	0.970		109	50-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B4B2183

Blank (B4B2183-BLK1)			Prepared: 2024-02-13, Analyzed: 2024-02-13						
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	49.4	µg/L	44.9		110	50-140			



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B4B2183, Continued									
Blank (B4B2183-BLK1), Continued					Prepared: 2024-02-13, Analyzed: 2024-02-13				
Surrogate: Perylene-d12	71.3	µg/L	44.9		159	50-140			S02
LCS (B4B2183-BS1)					Prepared: 2024-02-13, Analyzed: 2024-02-13				
Acenaphthene	22.6	0.050 µg/L	20.0		113	50-140			
Acenaphthylene	23.5	0.200 µg/L	20.0		117	50-140			
Anthracene	22.9	0.010 µg/L	20.0		114	50-140			
Benz(a)anthracene	22.8	0.010 µg/L	20.0		114	50-140			
Benzo(a)pyrene	26.7	0.010 µg/L	20.0		134	50-140			
Benzo(b+j)fluoranthene	50.4	0.050 µg/L	40.0		126	50-140			
Benzo(g,h,i)perylene	19.3	0.050 µg/L	20.0		96	50-140			
Benzo(k)fluoranthene	25.8	0.050 µg/L	20.0		129	50-140			
2-Chloronaphthalene	28.0	0.100 µg/L	22.7		124	50-140			
Chrysene	22.0	0.050 µg/L	20.0		110	50-140			
Dibenz(a,h)anthracene	18.5	0.010 µg/L	20.0		93	50-140			
Fluoranthene	23.4	0.030 µg/L	20.0		117	50-140			
Fluorene	22.3	0.050 µg/L	20.0		112	50-140			
Indeno(1,2,3-cd)pyrene	18.3	0.050 µg/L	20.0		92	50-140			
1-Methylnaphthalene	21.8	0.100 µg/L	20.0		109	50-140			
2-Methylnaphthalene	22.8	0.100 µg/L	20.0		114	50-140			
Naphthalene	21.9	0.200 µg/L	20.0		110	50-140			
Phenanthrene	22.0	0.100 µg/L	20.0		110	50-140			
Pyrene	23.4	0.020 µg/L	20.0		117	50-140			
Quinoline	29.2	0.050 µg/L	28.0		104	50-140			
Surrogate: Naphthalene-d8	48.4	µg/L	44.9		108	50-140			
Surrogate: Perylene-d12	40.2	µg/L	44.9		89	50-140			
LCS Dup (B4B2183-BSD1)					Prepared: 2024-02-13, Analyzed: 2024-02-13				
Acenaphthene	19.9	0.050 µg/L	20.0		99	50-140	13	30	
Acenaphthylene	20.5	0.200 µg/L	20.0		102	50-140	14	30	
Anthracene	20.3	0.010 µg/L	20.0		102	50-140	12	30	
Benz(a)anthracene	20.4	0.010 µg/L	20.0		102	50-140	11	30	
Benzo(a)pyrene	24.0	0.010 µg/L	20.0		120	50-140	11	30	
Benzo(b+j)fluoranthene	45.4	0.050 µg/L	40.0		113	50-140	11	30	
Benzo(g,h,i)perylene	17.4	0.050 µg/L	20.0		87	50-140	10	30	
Benzo(k)fluoranthene	23.4	0.050 µg/L	20.0		117	50-140	10	30	
2-Chloronaphthalene	24.3	0.100 µg/L	22.7		107	50-140	14	30	
Chrysene	19.6	0.050 µg/L	20.0		98	50-140	12	30	
Dibenz(a,h)anthracene	16.7	0.010 µg/L	20.0		83	50-140	11	30	
Fluoranthene	20.7	0.030 µg/L	20.0		104	50-140	12	30	
Fluorene	19.7	0.050 µg/L	20.0		98	50-140	12	30	
Indeno(1,2,3-cd)pyrene	16.4	0.050 µg/L	20.0		82	50-140	11	30	
1-Methylnaphthalene	18.7	0.100 µg/L	20.0		94	50-140	15	30	
2-Methylnaphthalene	19.4	0.100 µg/L	20.0		97	50-140	16	30	
Naphthalene	18.9	0.200 µg/L	20.0		95	50-140	15	30	
Phenanthrene	19.6	0.100 µg/L	20.0		98	50-140	12	30	
Pyrene	20.9	0.020 µg/L	20.0		105	50-140	11	30	
Quinoline	27.5	0.050 µg/L	28.0		98	50-140	6	30	
Surrogate: Naphthalene-d8	47.3	µg/L	44.9		105	50-140			
Surrogate: Perylene-d12	39.6	µg/L	44.9		88	50-140			

Total Metals, Batch B4B2354

Blank (B4B2354-BLK1)			Prepared: 2024-02-14, Analyzed: 2024-02-14						
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Total Metals, Batch B4B2354, Continued

Blank (B4B2354-BLK1), Continued

Prepared: 2024-02-14, Analyzed: 2024-02-14

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 (B4B2354-BS1)

Prepared: 2024-02-14, Analyzed: 2024-02-14

Aluminum, total	3.96	0.0050 mg/L	4.00		99	80-120			
Antimony, total	0.0393	0.00020 mg/L	0.0400		98	80-120			
Arsenic, total	0.395	0.00050 mg/L	0.400		99	80-120			
Barium, total	0.0391	0.0050 mg/L	0.0400		98	80-120			
Boron, total	0.385	0.0500 mg/L	0.400		96	80-120			
Cadmium, total	0.0385	0.000010 mg/L	0.0400		96	80-120			
Calcium, total	3.94	0.20 mg/L	4.00		98	80-120			
Chromium, total	0.0408	0.00050 mg/L	0.0400		102	80-120			
Copper, total	0.0399	0.00040 mg/L	0.0400		100	80-120			
Iron, total	4.04	0.010 mg/L	4.00		101	80-120			
Lead, total	0.0398	0.00020 mg/L	0.0400		100	80-120			
Magnesium, total	4.01	0.010 mg/L	4.00		100	80-120			
Manganese, total	0.0396	0.00020 mg/L	0.0400		99	80-120			
Potassium, total	3.90	0.10 mg/L	4.00		98	80-120			
Selenium, total	0.400	0.00050 mg/L	0.400		100	80-120			
Silver, total	0.0404	0.000050 mg/L	0.0400		101	80-120			
Sodium, total	3.92	0.10 mg/L	4.00		98	80-120			
Strontium, total	0.0400	0.0010 mg/L	0.0400		100	80-120			
Uranium, total	0.0402	0.000020 mg/L	0.0400		101	80-120			
Zinc, total	0.391	0.0040 mg/L	0.400		98	80-120			

Total Metals, Batch B4B2502

Blank (B4B2502-BLK1)

Prepared: 2024-02-15, Analyzed: 2024-02-15

Mercury, total	< 0.000010	0.000010 mg/L							
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Blank (B4B2502-BLK2)

Prepared: 2024-02-15, Analyzed: 2024-02-15

Mercury, total	< 0.000010	0.000010 mg/L							
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Blank (B4B2502-BLK3)

Prepared: 2024-02-15, Analyzed: 2024-02-15

Mercury, total	< 0.000010	0.000010 mg/L							
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Blank (B4B2502-BLK4)

Prepared: 2024-02-15, Analyzed: 2024-02-15

Mercury, total	< 0.000010	0.000010 mg/L							
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Blank (B4B2502-BLK5)

Prepared: 2024-02-15, Analyzed: 2024-02-15

Mercury, total	< 0.000010	0.000010 mg/L							
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B4B2502, Continued									
Blank (B4B2502-BLK6)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B4B2502-BS1)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Mercury, total	0.000278	0.000010 mg/L	0.000250		111	80-120			
LCS (B4B2502-BS2)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Mercury, total	0.000272	0.000010 mg/L	0.000250		109	80-120			
LCS (B4B2502-BS3)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Mercury, total	0.000269	0.000010 mg/L	0.000250		108	80-120			
LCS (B4B2502-BS4)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Mercury, total	0.000256	0.000010 mg/L	0.000250		102	80-120			
LCS (B4B2502-BS5)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Mercury, total	0.000285	0.000010 mg/L	0.000250		114	80-120			
LCS (B4B2502-BS6)			Prepared: 2024-02-15, Analyzed: 2024-02-15						
Mercury, total	0.000236	0.000010 mg/L	0.000250		95	80-120			

Volatile Organic Compounds (VOC), Batch B4B1956

Blank (B4B1956-BLK1)			Prepared: 2024-02-13, Analyzed: 2024-02-14						
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	< 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							
Vinyl chloride	< 1.0	1.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	20.3	µg/L	18.8		108	70-130			



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Volatile Organic Compounds (VOC), Batch B4B1956, Continued

Blank (B4B1956-BLK1), Continued

Prepared: 2024-02-13, Analyzed: 2024-02-14

Surrogate: 4-Bromofluorobenzene	19.4	µg/L	19.9	97	70-130				
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LCS (B4B1956-BS1)

Prepared: 2024-02-13, Analyzed: 2024-02-14

Benzene	19.3	0.5 µg/L	20.0	97	70-130				
Bromodichloromethane	16.9	1.0 µg/L	20.0	84	70-130				
Bromoform	0.0175	0.0010 mg/L	0.0200	88	70-130				
Carbon tetrachloride	16.9	0.5 µg/L	20.0	85	70-130				
Chlorobenzene	19.3	1.0 µg/L	20.0	96	70-130				
Chloroethane	22.1	2.0 µg/L	20.0	110	60-140				
Chloroform	18.8	1.0 µg/L	20.0	94	70-130				
Dibromochloromethane	16.6	1.0 µg/L	20.0	83	70-130				
1,2-Dibromoethane	19.4	0.3 µg/L	20.0	97	70-130				
Dibromomethane	17.1	1.0 µg/L	20.0	85	70-130				
1,2-Dichlorobenzene	19.0	0.5 µg/L	20.0	95	70-130				
1,3-Dichlorobenzene	18.9	1.0 µg/L	20.0	94	70-130				
1,4-Dichlorobenzene	18.6	1.0 µg/L	20.0	93	70-130				
1,1-Dichloroethane	18.3	1.0 µg/L	20.0	91	70-130				
1,2-Dichloroethane	20.2	1.0 µg/L	20.0	101	70-130				
1,1-Dichloroethylene	18.7	1.0 µg/L	20.0	93	70-130				
cis-1,2-Dichloroethylene	18.2	1.0 µg/L	20.0	91	70-130				
trans-1,2-Dichloroethylene	20.3	1.0 µg/L	20.0	101	70-130				
Dichloromethane	21.8	3.0 µg/L	20.0	109	70-130				
1,2-Dichloropropane	19.7	1.0 µg/L	20.0	98	70-130				
1,3-Dichloropropene (cis + trans)	40.5	1.0 µg/L	40.0	101	70-130				
Ethylbenzene	20.0	1.0 µg/L	20.0	100	70-130				
Methyl tert-butyl ether	18.4	1.0 µg/L	20.0	92	70-130				
Styrene	19.5	1.0 µg/L	20.0	97	70-130				
1,1,2,2-Tetrachloroethane	21.0	0.5 µg/L	20.0	105	70-130				
Tetrachloroethylene	18.2	1.0 µg/L	20.0	91	70-130				
Toluene	19.4	0.5 µg/L	20.0	97	70-130				
1,1,1-Trichloroethane	17.7	1.0 µg/L	20.0	89	70-130				
1,1,2-Trichloroethane	20.1	1.0 µg/L	20.0	100	70-130				
Trichloroethylene	17.8	1.0 µg/L	20.0	89	70-130				
Trichlorofluoromethane	22.5	1.0 µg/L	20.0	113	60-140				
Vinyl chloride	14.6	1.0 µg/L	20.0	73	60-140				
Xylenes (total)	61.0	2.0 µg/L	60.2	101	70-130				
Surrogate: Toluene-d8	22.1	µg/L	18.8	117	70-130				
Surrogate: 4-Bromofluorobenzene	0.0213	mg/L	0.0199	107	70-130				

Duplicate (B4B1956-DUP1)

Source: 24B1239-03

Prepared: 2024-02-13, Analyzed: 2024-02-14

Benzene	< 0.5	0.5 µg/L	< 0.5						30
Bromodichloromethane	1.2	1.0 µg/L	1.2						30
Bromoform	< 1.0	1.0 µg/L	< 1.0						30
Carbon tetrachloride	< 0.5	0.5 µg/L	< 0.5						30
Chlorobenzene	< 1.0	1.0 µg/L	< 1.0						30
Chloroethane	< 2.0	2.0 µg/L	< 2.0						30
Chloroform	0.0339	0.0010 mg/L	0.0333				2		30
Dibromochloromethane	< 0.0010	0.0010 mg/L	< 0.0010						30
1,2-Dibromoethane	< 0.3	0.3 µg/L	< 0.3						30
Dibromomethane	< 1.0	1.0 µg/L	< 1.0						30
1,2-Dichlorobenzene	< 0.5	0.5 µg/L	< 0.5						30
1,3-Dichlorobenzene	< 1.0	1.0 µg/L	< 1.0						30
1,4-Dichlorobenzene	< 1.0	1.0 µg/L	< 1.0						30
1,1-Dichloroethane	< 1.0	1.0 µg/L	< 1.0						30
1,2-Dichloroethane	< 1.0	1.0 µg/L	< 1.0						30
1,1-Dichloroethylene	< 1.0	1.0 µg/L	< 1.0						30



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Mountainview Regional Water Services Commission
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B4B1956, Continued									
Duplicate (B4B1956-DUP1), Continued		Source: 24B1239-03		Prepared: 2024-02-13, Analyzed: 2024-02-14					
cis-1,2-Dichloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
trans-1,2-Dichloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
Dichloromethane	< 3.0	3.0 µg/L		< 3.0				30	
1,2-Dichloropropane	< 1.0	1.0 µg/L		< 1.0				30	
1,3-Dichloropropane (cis + trans)	< 1.0	1.0 µg/L		< 1.0				30	
Ethylbenzene	< 1.0	1.0 µg/L		< 1.0				30	
Methyl tert-butyl ether	< 1.0	1.0 µg/L		< 1.0				30	
Styrene	< 1.0	1.0 µg/L		< 1.0				30	
1,1,2,2-Tetrachloroethane	< 0.5	0.5 µg/L		< 0.5				30	
Tetrachloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
Toluene	< 0.5	0.5 µg/L		< 0.5				30	
1,1,1-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				30	
1,1,2-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				30	
Trichloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
Trichlorofluoromethane	< 1.0	1.0 µg/L		< 1.0				30	
Vinyl chloride	< 1.0	1.0 µg/L		< 1.0				30	
Xylenes (total)	< 2.0	2.0 µg/L		< 2.0				30	
Surrogate: Toluene-d8	22.2	µg/L	18.8		118	70-130			
Surrogate: 4-Bromofluorobenzene	0.0213	mg/L	0.0199		107	70-130			
Matrix Spike (B4B1956-MS1)		Source: 24B1239-03		Prepared: 2024-02-13, Analyzed: 2024-02-14					
Benzene	20.6	0.5 µg/L	20.0	< 0.5	103	70-130			
Bromodichloromethane	0.0195	0.0010 mg/L	0.0200	0.0012	91	70-130			
Bromoform	16.2	1.0 µg/L	20.0	< 1.0	81	70-130			
Carbon tetrachloride	16.6	0.5 µg/L	20.0	< 0.5	82	70-130			
Chlorobenzene	20.2	1.0 µg/L	20.0	< 1.0	101	70-130			
Chloroethane	31.0	2.0 µg/L	20.0	< 2.0	155	60-140			MS1
Chloroform	0.0504	0.0010 mg/L	0.0200	0.0333	85	70-130			
Dibromochloromethane	0.0155	0.0010 mg/L	0.0200	< 0.0010	77	70-130			
1,2-Dibromoethane	19.3	0.3 µg/L	20.0	< 0.3	97	70-130			
Dibromomethane	18.0	1.0 µg/L	20.0	< 1.0	90	70-130			
1,2-Dichlorobenzene	19.7	0.5 µg/L	20.0	< 0.5	99	70-130			
1,3-Dichlorobenzene	19.4	1.0 µg/L	20.0	< 1.0	97	70-130			
1,4-Dichlorobenzene	18.7	1.0 µg/L	20.0	< 1.0	93	70-130			
1,1-Dichloroethane	18.7	1.0 µg/L	20.0	< 1.0	93	70-130			
1,2-Dichloroethane	22.2	1.0 µg/L	20.0	< 1.0	111	70-130			
1,1-Dichloroethylene	18.5	1.0 µg/L	20.0	< 1.0	93	70-130			
cis-1,2-Dichloroethylene	18.6	1.0 µg/L	20.0	< 1.0	93	70-130			
trans-1,2-Dichloroethylene	20.3	1.0 µg/L	20.0	< 1.0	102	70-130			
Dichloromethane	24.0	3.0 µg/L	20.0	< 3.0	119	70-130			
1,2-Dichloropropane	20.5	1.0 µg/L	20.0	< 1.0	103	70-130			
1,3-Dichloropropane (cis + trans)	11.6	1.0 µg/L	40.0	< 1.0	29	70-130			MS1
Ethylbenzene	20.1	1.0 µg/L	20.0	< 1.0	100	70-130			
Methyl tert-butyl ether	19.2	1.0 µg/L	20.0	< 1.0	96	70-130			
Styrene	19.8	1.0 µg/L	20.0	< 1.0	99	70-130			
1,1,2,2-Tetrachloroethane	21.9	0.5 µg/L	20.0	< 0.5	109	70-130			
Tetrachloroethylene	17.9	1.0 µg/L	20.0	< 1.0	89	70-130			
Toluene	20.1	0.5 µg/L	20.0	< 0.5	100	70-130			
1,1,1-Trichloroethane	17.9	1.0 µg/L	20.0	< 1.0	90	70-130			
1,1,2-Trichloroethane	21.8	1.0 µg/L	20.0	< 1.0	109	70-130			
Trichloroethylene	18.9	1.0 µg/L	20.0	< 1.0	95	70-130			
Trichlorofluoromethane	24.2	1.0 µg/L	20.0	< 1.0	121	60-140			
Vinyl chloride	14.3	1.0 µg/L	20.0	< 1.0	72	60-140			
Xylenes (total)	60.3	2.0 µg/L	60.2	< 2.0	100	70-130			
Surrogate: Toluene-d8	0.0206	mg/L	0.0188		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0199	mg/L	0.0199		100	70-130			



APPENDIX 2: QUALITY CONTROL RESULTS

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WORK ORDER REPORTED 24B1239
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B4B2296									
Blank (B4B2296-BLK1)					Prepared: 2024-02-14, Analyzed: 2024-02-14				
Bromodichloromethane	< 0.0010	0.0010 mg/L							
Bromoform	< 0.0010	0.0010 mg/L							
Chloroform	< 0.0010	0.0010 mg/L							
Dibromochloromethane	< 0.0010	0.0010 mg/L							
Surrogate: Toluene-d8	0.0216	mg/L	0.0188		115	70-130			
Surrogate: 4-Bromofluorobenzene	0.0206	mg/L	0.0199		103	70-130			
LCS (B4B2296-BS1)					Prepared: 2024-02-14, Analyzed: 2024-02-14				
Bromodichloromethane	0.0167	0.0010 mg/L	0.0200		84	70-130			
Bromoform	0.0159	0.0010 mg/L	0.0200		79	70-130			
Chloroform	0.0190	0.0010 mg/L	0.0200		95	70-130			
Dibromochloromethane	0.0157	0.0010 mg/L	0.0200		78	70-130			
Surrogate: Toluene-d8	0.0214	mg/L	0.0188		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.0212	mg/L	0.0199		106	70-130			

QC Qualifiers:

- BLK Analyte concentration in the Method Blank is above the Reporting Limit (RL).
- MS1 The matrix spike recovery was outside of control limits due to a matrix effect and/or interference.
- S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.
- SPK1 The recovery of this analyte was outside of established control limits. The data was accepted based on performance of other batch QC.