CERTIFICATE OF ANALYSIS

REPORTED TO	Mountainview Regional Water Services Commission 35566 Rge Rd 10 Red Deer County, AB T4G 0H5		
ATTENTION	Wesley Olstad	**WORK ORDER**	22H2233
PO NUMBER		**RECEIVED / TEMP**	2022-08-16 09:30 / 20.4°C
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25
PROJECT INFO		**COC NUMBER**	14367

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

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.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: https://www.caro.ca/terms-conditions

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

Authorized By:

Regan Pshyk
Junior Account Manager

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	22H2233
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated (22H2233-01) | Matrix: Water | Sampled: 2022-08-15						
Acid Herbicides						
2,4-D	< 0.10	MAC = 100	0.10	µg/L	2022-08-24	
MCPA	< 0.02	MAC = 100	0.02	µg/L	2022-08-24	
2,4,5-T	< 0.10	N/A	0.10	µg/L	2022-08-24	
Dicamba	< 0.10	MAC = 120	0.10	µg/L	2022-08-24	
Picloram	< 0.10	MAC = 190	0.10	µg/L	2022-08-24	
Dinoseb	< 0.10	N/A	0.10	µg/L	2022-08-24	
Anions						
Bromate	< 0.010	MAC = 0.01	0.010	mg/L	2022-08-23	
Chloride	**9.02**	AO ≤ 250	0.50	mg/L	2022-08-23	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2022-08-23	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	2022-08-23	HT1
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2022-08-23	HT1
Sulfate	**35.0**	AO ≤ 500	1.0	mg/L	2022-08-23	
Calculated Parameters						
Chloramines	**0.110**	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	**0.128**	MAC = 0.1	0.0130	mg/L	N/A	
Hardness, Total (as CaCO3)	**190**	None Required	0.541	mg/L	N/A	
Solids, Total Dissolved	**211**	AO ≤ 500	3.35	mg/L	N/A	
Chlorinated Phenols						
2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2022-08-19	
3 & 4-Chlorophenol	< 2.80	N/A	0.10	µg/L	2022-08-19	RA1
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2022-08-19	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20	µg/L	2022-08-19	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2022-08-19	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2022-08-19	
3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2022-08-19	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2022-08-19	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50	µg/L	2022-08-19	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2022-08-19	
Surrogate: 2,4-Dibromophenol	*91*		*60-130*	%	*2022-08-19*	
Surrogate: 2,4,6-Tribromophenol	*85*		*60-130*	%	*2022-08-19*	
General Parameters						
Alkalinity, Total (as CaCO3)	**151**	N/A	2.0	mg/L	2022-08-18	

CARO ANALYTICAL SERVICES

TEST RESULTS

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated (22H2233-01) | Matrix: Water | Sampled: 2022-08-15, Continued						
General Parameters, Continued						
Bicarbonate (HCO3)	**185**	N/A	2.0	mg/L	2022-08-18	
Carbonate (CO3)	< 2.0	N/A	2.0	mg/L	2022-08-18	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	2022-08-18	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2022-08-23	
Carbon, Total Organic	**3.50**	N/A	0.50	mg/L	2022-08-19	
Chlorine, Total	**1.15**	None Required	0.02	mg/L	2022-08-17	HT2
Chlorine, Free	**1.04**	N/A	0.02	mg/L	2022-08-17	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2022-08-18	
Conductivity (EC)	**379**	N/A	2.0	µS/cm	2022-08-22	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2022-08-18	
Nitrilotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	2022-08-19	
pH	**7.60**	7.0-10.5	0.10	pH units	2022-08-18	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2022-08-17	
Turbidity	**0.16**	OG < 1	0.10	NTU	2022-08-18	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Dichloroacetic Acid	**0.0593**	N/A	0.0020	mg/L	2022-08-20	
Trichloroacetic Acid	**0.0621**	N/A	0.0020	mg/L	2022-08-20	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Total Haloacetic Acids (HAA5)	**0.121**	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	*99*		*70-130*	%	*2022-08-20*	
Microbiological Parameters						
Microcystin, total	< 0.05	MAC = 1.5	0.05	µg/L	2022-08-25	
Miscellaneous Herbicides						
Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	2022-08-27	
Pesticides, Herbicides, and Fungicides						
Alachlor	< 0.100	N/A	0.100	µg/L	2022-08-20	
Aldrin	< 0.006	N/A	0.006	µg/L	2022-08-20	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2022-08-20	
Azinphos-methyl	< 0.200	MAC = 20	0.200	µg/L	2022-08-20	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2022-08-20	
beta-BHC	< 0.050	N/A	0.050	µg/L	2022-08-20	
delta-BHC	< 0.050	N/A	0.050	µg/L	2022-08-20	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2022-08-20	
Bromacil	< 0.100	N/A	0.100	µg/L	2022-08-20	
Bromoxynil	< 0.200	MAC = 5	0.200	µg/L	2022-08-20	
Butachlor	< 0.020	N/A	0.020	µg/L	2022-08-20	
Captan	< 0.100	N/A	0.100	µg/L	2022-08-20	
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2022-08-20	

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Treated (22H2233-01) | Matrix: Water | Sampled: 2022-08-15, Continued						
Pesticides, Herbicides, and Fungicides, Continued						
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2022-08-20	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2022-08-20	
Cyanazine	< 0.100	N/A	0.100	µg/L	2022-08-20	
DDT, Total	< 0.010	N/A	0.010	µg/L	2022-08-20	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2022-08-20	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2022-08-20	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2022-08-20	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2022-08-20	
Dieldrin	< 0.010	N/A	0.010	µg/L	2022-08-20	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2022-08-20	
Disulfoton	< 0.100	N/A	0.100	µg/L	2022-08-20	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2022-08-20	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2022-08-20	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2022-08-20	
Endrin	< 0.020	N/A	0.020	µg/L	2022-08-20	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2022-08-20	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2022-08-20	
Fenchlorphos (Ronnel)	< 0.100	N/A	0.100	µg/L	2022-08-20	
Heptachlor	< 0.010	N/A	0.010	µg/L	2022-08-20	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2022-08-20	
Linuron	< 0.050	N/A	0.050	µg/L	2022-08-20	
Malathion	< 0.100	MAC = 190	0.100	µg/L	2022-08-20	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2022-08-20	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2022-08-20	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2022-08-20	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2022-08-20	
Parathion	< 0.100	N/A	0.100	µg/L	2022-08-20	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2022-08-20	
Permethrin	< 0.010	N/A	0.010	µg/L	2022-08-20	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2022-08-20	
Prometon	< 0.300	N/A	0.300	µg/L	2022-08-20	
Prometryne	< 0.100	N/A	0.100	µg/L	2022-08-20	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2022-08-20	
Sulfotep	< 0.100	N/A	0.100	µg/L	2022-08-20	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2022-08-20	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2022-08-20	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2022-08-20	
Triallate	< 0.100	N/A	0.100	µg/L	2022-08-20	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2022-08-20	
Surrogate: Tributyl Phosphate	*72*		*50-140*	%	*2022-08-20*	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	*71*		*50-140*	%	*2022-08-20*	
Polycyclic Aromatic Hydrocarbons (PAH)						

CARO ANALYTICAL SERVICES

TEST RESULTS

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated (22H2233-01) | Matrix: Water | Sampled: 2022-08-15, Continued						
Polycyclic Aromatic Hydrocarbons (PAH), Continued						
Acenaphthene	< 0.050	N/A	0.050	µg/L	2022-08-19	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2022-08-19	
Anthracene	< 0.010	N/A	0.010	µg/L	2022-08-19	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2022-08-19	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2022-08-19	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2022-08-19	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2022-08-19	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2022-08-19	
2-Chloronaphthalene	**0.471**	N/A	0.100	µg/L	2022-08-19	
Chrysene	< 0.050	N/A	0.050	µg/L	2022-08-19	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2022-08-19	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2022-08-19	
Fluorene	< 0.050	N/A	0.050	µg/L	2022-08-19	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2022-08-19	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2022-08-19	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2022-08-19	
Naphthalene	< 0.200	N/A	0.200	µg/L	2022-08-19	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2022-08-19	
Pyrene	< 0.020	N/A	0.020	µg/L	2022-08-19	
Quinoline	< 0.050	N/A	0.050	µg/L	2022-08-19	
Surrogate: Naphthalene-d8	*93*		*50-140*	%	*2022-08-19*	
Surrogate: Perylene-d12	*74*		*50-140*	%	*2022-08-19*	
Total Metals						
Aluminum, total	**0.0471**	OG < 0.1	0.0050	mg/L	2022-08-21	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-08-21	
Arsenic, total	**0.00053**	MAC = 0.01	0.00050	mg/L	2022-08-21	
Barium, total	**0.107**	MAC = 2	0.0050	mg/L	2022-08-21	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-08-21	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2022-08-21	
Calcium, total	**50.4**	None Required	0.20	mg/L	2022-08-21	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-21	
Copper, total	**0.00097**	MAC = 2	0.00040	mg/L	2022-08-21	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2022-08-21	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-08-21	
Magnesium, total	**15.6**	None Required	0.010	mg/L	2022-08-21	
Manganese, total	**0.00477**	MAC = 0.12	0.00020	mg/L	2022-08-21	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2022-08-18	
Potassium, total	**1.50**	N/A	0.10	mg/L	2022-08-21	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-21	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2022-08-21	
Sodium, total	**6.83**	AO ≤ 200	0.10	mg/L	2022-08-21	
Strontium, total	**0.314**	MAC = 7	0.0010	mg/L	2022-08-21	

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Treated (22H2233-01) | Matrix: Water | Sampled: 2022-08-15, Continued						
Total Metals, Continued						
Uranium, total	**0.000174**	MAC = 0.02	0.000020	mg/L	2022-08-21	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2022-08-21	
Volatile Organic Compounds (VOC)						
Benzene	< 0.5	MAC = 5	0.5	µg/L	2022-08-18	
Bromodichloromethane	**2.8**	N/A	1.0	µg/L	2022-08-18	
Bromoform	< 1.0	N/A	1.0	µg/L	2022-08-18	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2022-08-18	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2022-08-18	
Chloroethane	< 2.0	N/A	2.0	µg/L	2022-08-18	
Chloroform	**125**	N/A	1.0	µg/L	2022-08-18	
Dibromochloromethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2022-08-18	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5	µg/L	2022-08-18	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2022-08-18	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2022-08-18	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0	µg/L	2022-08-18	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2022-08-18	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2022-08-18	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2022-08-18	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2022-08-18	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2022-08-18	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2022-08-18	
Styrene	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,1,2,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2022-08-18	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2022-08-18	
Toluene	< 1.0	MAC = 60	1.0	µg/L	2022-08-18	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2022-08-18	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2022-08-18	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2022-08-18	
Surrogate: Toluene-d8	*101*		*70-130*	%	*2022-08-18*	
Surrogate: 4-Bromofluorobenzene	*103*		*70-130*	%	*2022-08-18*	
MPR-In (22H2233-02) | Matrix: Water | Sampled: 2022-08-15						
Calculated Parameters						

CARO ANALYTICAL SERVICES

TEST RESULTS

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
MPR-In (22H2233-02) | Matrix: Water | Sampled: 2022-08-15, Continued						
Calculated Parameters, Continued						
Total Trihalomethanes	**0.102**	MAC = 0.1	0.0130	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Dichloroacetic Acid	**0.0466**	N/A	0.0020	mg/L	2022-08-20	
Trichloroacetic Acid	**0.0571**	N/A	0.0020	mg/L	2022-08-20	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Total Haloacetic Acids (HAA5)	**0.104**	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	*106*		*70-130*	%	*2022-08-20*	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	**0.0027**	N/A	0.0010	mg/L	2022-08-18	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2022-08-18	
Chloroform	**0.0993**	N/A	0.0010	mg/L	2022-08-18	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2022-08-18	
Surrogate: Toluene-d8	*103*		*70-130*	%	*2022-08-18*	
Surrogate: 4-Bromofluorobenzene	*105*		*70-130*	%	*2022-08-18*	
MPR-Out (22H2233-03) | Matrix: Water | Sampled: 2022-08-15						
Calculated Parameters						
Total Trihalomethanes	**0.124**	MAC = 0.1	0.0130	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Dichloroacetic Acid	**0.0570**	N/A	0.0020	mg/L	2022-08-20	
Trichloroacetic Acid	**0.0613**	N/A	0.0020	mg/L	2022-08-20	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Total Haloacetic Acids (HAA5)	**0.118**	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	*107*		*70-130*	%	*2022-08-20*	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	**0.0029**	N/A	0.0010	mg/L	2022-08-18	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2022-08-18	
Chloroform	**0.121**	N/A	0.0010	mg/L	2022-08-18	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2022-08-18	
Surrogate: Toluene-d8	*102*		*70-130*	%	*2022-08-18*	
Surrogate: 4-Bromofluorobenzene	*100*		*70-130*	%	*2022-08-18*	
Plant (22H2233-04) | Matrix: Water | Sampled: 2022-08-15						
Calculated Parameters						

TEST RESULTS

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Plant (22H2233-04) | Matrix: Water | Sampled: 2022-08-15, Continued						
Calculated Parameters, Continued						
Total Trihalomethanes	**0.0750**	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Dichloroacetic Acid	**0.0263**	N/A	0.0020	mg/L	2022-08-20	
Trichloroacetic Acid	**0.0316**	N/A	0.0020	mg/L	2022-08-20	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2022-08-20	
Total Haloacetic Acids (HAA5)	**0.0579**	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	*102*		*70-130*	%	*2022-08-20*	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	**0.0027**	N/A	0.0010	mg/L	2022-08-18	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2022-08-18	
Chloroform	**0.0723**	N/A	0.0010	mg/L	2022-08-18	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2022-08-18	
Surrogate: Toluene-d8	*106*		*70-130*	%	*2022-08-18*	
Surrogate: 4-Bromofluorobenzene	*104*		*70-130*	%	*2022-08-18*	

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 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* (2017)	Titration with H2SO4	✓	Edmonton
Ammonia, Total in Water	SM 4500-NH3 D* (2017)	Ion Selective Electrode	✓	Edmonton
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Edmonton
Bromate in Water	SM 4110 B (2017)	Ion Chromatography	✓	Sublet
Carbon, Total Organic in Water	SM 5310 B (2017)	Combustion, Infrared CO2 Detection	✓	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2017)	Colorimetry (DPD)	✓	Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2017)	Colorimetry (DPD)	✓	Edmonton
Colour, True in Water	SM 2120 C (2017)	Spectrophotometry (456 nm)	✓	Edmonton
Conductivity in Water	SM 2510 B (2017)	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 (2017)	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
Nitrilotriacetic 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 (2017)	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 (2017)	SM 1030 E (2011)	✓	N/A
Sulfide, Total in Water	SM 4500-S2 D* (2017)	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 (2017)	Nephelometry	✓	Edmonton
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)		Edmonton

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

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Glossary of Terms:

RL	Reporting Limit (default)
<	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 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. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

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
Acid Herbicides, Batch B2H2863										
Blank (B2H2863-BLK1)				Prepared: 2022-08-23, Analyzed: 2022-08-24						
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 (B2H2863-BS1)				Prepared: 2022-08-23, Analyzed: 2022-08-24						
2,4-D	5.04	0.10	µg/L	5.05		100	70-130			
MCPA	5.03	0.02	µg/L	5.00		101	70-130			
2,4,5-T	4.67	0.10	µg/L	5.15		91	70-130			
Dicamba	4.58	0.10	µg/L	5.05		91	70-130			
Picloram	4.90	0.10	µg/L	5.10		96	70-130			
Dinoseb	4.61	0.10	µg/L	5.10		90	70-130			
LCS (B2H2863-BS2)				Prepared: 2022-08-23, Analyzed: 2022-08-24						
2,4-D	5.30	0.10	µg/L	5.05		105	70-130			
MCPA	4.97	0.02	µg/L	5.00		99	70-130			
2,4,5-T	4.51	0.10	µg/L	5.15		88	70-130			
Dicamba	5.62	0.10	µg/L	5.05		111	70-130			
Picloram	5.27	0.10	µg/L	5.10		103	70-130			
Dinoseb	4.57	0.10	µg/L	5.10		90	70-130			
LCS (B2H2863-BS3)				Prepared: 2022-08-23, Analyzed: 2022-08-24						
2,4-D	5.00	0.10	µg/L	5.05		99	70-130			
MCPA	4.97	0.02	µg/L	5.00		99	70-130			
2,4,5-T	4.21	0.10	µg/L	5.15		82	70-130			
Dicamba	5.41	0.10	µg/L	5.05		107	70-130			
Picloram	4.83	0.10	µg/L	5.10		95	70-130			
Dinoseb	4.59	0.10	µg/L	5.10		90	70-130			
LCS (B2H2863-BS4)				Prepared: 2022-08-23, Analyzed: 2022-08-24						
2,4-D	5.14	0.10	µg/L	5.05		102	70-130			
MCPA	4.77	0.02	µg/L	5.00		95	70-130			
2,4,5-T	5.57	0.10	µg/L	5.15		108	70-130			
Dicamba	4.78	0.10	µg/L	5.05		95	70-130			
Picloram	4.58	0.10	µg/L	5.10		90	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Acid Herbicides, Batch B2H2863, Continued										
LCS (B2H2863-BS4), Continued				Prepared: 2022-08-23, Analyzed: 2022-08-24						
Dinoseb	4.54	0.10	µg/L	5.10		89	70-130			
Anions, Batch B2H2557										
Blank (B2H2557-BLK1)				Prepared: 2022-08-22, Analyzed: 2022-08-22						
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							
Blank (B2H2557-BLK2)				Prepared: 2022-08-23, Analyzed: 2022-08-23						
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 (B2H2557-BS1)				Prepared: 2022-08-22, Analyzed: 2022-08-22						
Chloride	9.73	0.50	mg/L	10.0		97	90-110			
Fluoride	0.88	0.10	mg/L	1.00		88	85-115			
Nitrate (as N)	0.979	0.050	mg/L	1.00		98	92-108			
Nitrite (as N)	0.518	0.050	mg/L	0.500		104	85-115			
Sulfate	51.5	1.0	mg/L	50.0		103	90-110			
LCS (B2H2557-BS2)				Prepared: 2022-08-23, Analyzed: 2022-08-23						
Chloride	10.1	0.50	mg/L	10.0		101	90-110			
Fluoride	1.11	0.10	mg/L	1.00		111	85-115			
Nitrate (as N)	0.959	0.050	mg/L	1.00		96	92-108			
Nitrite (as N)	0.431	0.050	mg/L	0.500		86	85-115			
Sulfate	52.2	1.0	mg/L	50.0		104	90-110			
Chlorinated Phenols, Batch B2H2270										
Blank (B2H2270-BLK1)				Prepared: 2022-08-18, Analyzed: 2022-08-19						
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	*1.82*		*µg/L*	2.00		*91*	*60-130*			
Surrogate: 2,4,6-Tribromophenol	*1.63*		*µg/L*	2.00		*81*	*60-130*			

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Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Chlorinated Phenols, Batch B2H2270, Continued										
LCS (B2H2270-BS1)				Prepared: 2022-08-18, Analyzed: 2022-08-19						
2-Chlorophenol	8.96	0.10	µg/L	10.0		89	60-130			
3 & 4-Chlorophenol	15.7	0.10	µg/L	19.8		80	60-130			
4-Chloro-3-Methylphenol	9.70	0.50	µg/L	10.2		95	60-130			
2,3-Dichlorophenol	8.63	0.20	µg/L	10.1		85	60-130			
2,4 & 2,5-Dichlorophenol	19.2	0.20	µg/L	20.2		95	60-130			
2,6-Dichlorophenol	9.58	0.20	µg/L	10.0		96	60-130			
3,4-Dichlorophenol	9.10	0.20	µg/L	10.0		91	60-130			
3,5-Dichlorophenol	11.0	0.20	µg/L	10.2		108	60-130			
2,3,4-Trichlorophenol	9.86	0.50	µg/L	10.0		98	60-130			
2,3,5-Trichlorophenol	10.3	0.50	µg/L	10.0		102	60-130			
2,3,6-Trichlorophenol	9.54	0.50	µg/L	10.0		95	60-130			
2,4,5-Trichlorophenol	9.66	0.50	µg/L	10.0		96	60-130			
2,4,6-Trichlorophenol	10.3	0.50	µg/L	9.95		104	60-130			
3,4,5-Trichlorophenol	10.6	0.50	µg/L	10.0		106	60-130			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	17.4	0.50	µg/L	19.9		88	60-130			
2,3,4,6-Tetrachlorophenol	10.3	0.50	µg/L	10.0		103	60-130			
Pentachlorophenol	11.6	0.50	µg/L	9.95		117	60-130			
Surrogate: 2,4-Dibromophenol	*3.31*		*µg/L*	4.00		*83*	*60-130*			
Surrogate: 2,4,6-Tribromophenol	*3.62*		*µg/L*	4.00		*90*	*60-130*			
LCS Dup (B2H2270-BSD1)				Prepared: 2022-08-18, Analyzed: 2022-08-19						
2-Chlorophenol	8.72	0.10	µg/L	10.0		87	60-130	3	40	
3 & 4-Chlorophenol	15.4	0.10	µg/L	19.8		78	60-130	2	40	
4-Chloro-3-Methylphenol	9.03	0.50	µg/L	10.2		89	60-130	7	40	
2,3-Dichlorophenol	9.16	0.20	µg/L	10.1		91	60-130	6	40	
2,4 & 2,5-Dichlorophenol	18.5	0.20	µg/L	20.2		92	60-130	4	40	
2,6-Dichlorophenol	9.32	0.20	µg/L	10.0		93	60-130	3	40	
3,4-Dichlorophenol	8.80	0.20	µg/L	10.0		88	60-130	3	40	
3,5-Dichlorophenol	10.5	0.20	µg/L	10.2		103	60-130	4	40	
2,3,4-Trichlorophenol	9.51	0.50	µg/L	10.0		95	60-130	4	40	
2,3,5-Trichlorophenol	9.81	0.50	µg/L	10.0		98	60-130	5	40	
2,3,6-Trichlorophenol	9.18	0.50	µg/L	10.0		91	60-130	4	40	
2,4,5-Trichlorophenol	10.0	0.50	µg/L	10.0		100	60-130	4	40	
2,4,6-Trichlorophenol	10.0	0.50	µg/L	9.95		101	60-130	3	40	
3,4,5-Trichlorophenol	10.2	0.50	µg/L	10.0		102	60-130	4	40	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	17.0	0.50	µg/L	19.9		85	60-130	3	40	
2,3,4,6-Tetrachlorophenol	9.47	0.50	µg/L	10.0		95	60-130	9	40	
Pentachlorophenol	10.5	0.50	µg/L	9.95		106	60-130	10	40	
Surrogate: 2,4-Dibromophenol	*2.14*		*µg/L*	2.00		*107*	*60-130*			
Surrogate: 2,4,6-Tribromophenol	*1.98*		*µg/L*	2.00		*99*	*60-130*			
General Parameters, Batch B2H1960										
Blank (B2H1960-BLK1)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	< 0.50	0.50	mg/L							
Blank (B2H1960-BLK2)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	< 0.50	0.50	mg/L							
Blank (B2H1960-BLK3)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	< 0.50	0.50	mg/L							
Blank (B2H1960-BLK4)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
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 B2H1960, Continued										
LCS (B2H1960-BS1)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	9.54	0.50	mg/L	10.0		95	78-116			
LCS (B2H1960-BS2)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	9.53	0.50	mg/L	10.0		95	78-116			
LCS (B2H1960-BS3)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	9.28	0.50	mg/L	10.0		93	78-116			
LCS (B2H1960-BS4)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	9.34	0.50	mg/L	10.0		93	78-116			
General Parameters, Batch B2H2166										
Blank (B2H2166-BLK1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Alkalinity, Total (as CaCO3)	< 2.0	2.0	mg/L							
Bicarbonate (HCO3)	< 2.0	2.0	mg/L							
Carbonate (CO3)	< 2.0	2.0	mg/L							
Hydroxide (OH)	< 2.0	2.0	mg/L							
LCS (B2H2166-BS1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Alkalinity, Total (as CaCO3)	252	2.0	mg/L	250		101	94-108			
Reference (B2H2166-SRM1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
pH	7.11	0.10	pH units	7.00		102	98-102			
General Parameters, Batch B2H2195										
Blank (B2H2195-BLK1)				Prepared: 2022-08-17, Analyzed: 2022-08-17						
Sulfide, Total	< 0.020	0.020	mg/L							
LCS (B2H2195-BS1)				Prepared: 2022-08-17, Analyzed: 2022-08-17						
Sulfide, Total	0.519	0.020	mg/L	0.500		104	80-120			
General Parameters, Batch B2H2207										
Blank (B2H2207-BLK1)				Prepared: 2022-08-17, Analyzed: 2022-08-17						
Chlorine, Total	< 0.02	0.02	mg/L							
Chlorine, Free	< 0.02	0.02	mg/L							
Duplicate (B2H2207-DUP1)			**Source: 22H2233-01**	Prepared: 2022-08-17, Analyzed: 2022-08-17						
Chlorine, Total	1.17	0.02	mg/L		1.15			2	10	
Chlorine, Free	1.01	0.02	mg/L		1.04			3	20	
Reference (B2H2207-SRM1)				Prepared: 2022-08-17, Analyzed: 2022-08-17						
Chlorine, Total	1.56	0.02	mg/L	1.59		98	91.2-108.8			
Chlorine, Free	1.56	0.02	mg/L	1.59		98	91.2-108.8			
General Parameters, Batch B2H2284										
Blank (B2H2284-BLK1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Colour, True	< 5.0	5.0	CU							
LCS (B2H2284-BS1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Colour, True	25	5.0	CU	25.0		101	90-109			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	22H2233
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B2H2285										
Blank (B2H2285-BLK1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Turbidity	< 0.10	0.10	NTU							
LCS (B2H2285-BS1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Turbidity	40.3	0.10	NTU	40.0		101	90-110			
General Parameters, Batch B2H2303										
Blank (B2H2303-BLK1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	< 0.0020	0.0020	mg/L							
Blank (B2H2303-BLK2)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	< 0.0020	0.0020	mg/L							
LCS (B2H2303-BS1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	0.0185	0.0020	mg/L	0.0200		92	82-120			
LCS (B2H2303-BS2)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	0.0196	0.0020	mg/L	0.0200		98	82-120			
LCS Dup (B2H2303-BSD1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	0.0187	0.0020	mg/L	0.0200		94	82-120	1	10	
LCS Dup (B2H2303-BSD2)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	0.0185	0.0020	mg/L	0.0200		92	82-120	6	10	
General Parameters, Batch B2H2548										
Blank (B2H2548-BLK1)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
Nitrilotriacetic Acid	< 0.20	0.20	mg/L							
LCS (B2H2548-BS1)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
Nitrilotriacetic Acid	0.91	0.20	mg/L	1.00		91	80-120			
LCS Dup (B2H2548-BSD1)				Prepared: 2022-08-19, Analyzed: 2022-08-19						
Nitrilotriacetic Acid	0.97	0.20	mg/L	1.00		97	80-120	6	20	
General Parameters, Batch B2H2742										
Blank (B2H2742-BLK1)				Prepared: 2022-08-22, Analyzed: 2022-08-22						
Conductivity (EC)	< 2.0	2.0	µS/cm							
LCS (B2H2742-BS1)				Prepared: 2022-08-22, Analyzed: 2022-08-22						
Conductivity (EC)	999	2.0	µS/cm	1000		100	95-105			
General Parameters, Batch B2H2841										
Blank (B2H2841-BLK1)				Prepared: 2022-08-23, Analyzed: 2022-08-23						
Ammonia, Total (as N)	< 0.050	0.050	mg/L							
LCS (B2H2841-BS1)				Prepared: 2022-08-23, Analyzed: 2022-08-23						
Ammonia, Total (as N)	0.207	0.050	mg/L	0.200		104	85-115			
Haloacetic Acids, Batch B2H2524										

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Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Haloacetic Acids, Batch B2H2524, Continued										
Blank (B2H2524-BLK1)				Prepared: 2022-08-19, Analyzed: 2022-08-20						
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	*0.0117*		*mg/L*	0.0117		*100*	*70-130*			
LCS (B2H2524-BS1)				Prepared: 2022-08-19, Analyzed: 2022-08-20						
Monochloroacetic Acid	0.0553	0.0020	mg/L	0.0564		98	75-117			
Monobromoacetic Acid	0.0364	0.0020	mg/L	0.0374		97	83-113			
Dichloroacetic Acid	0.0532	0.0020	mg/L	0.0558		95	78-112			
Trichloroacetic Acid	0.0174	0.0020	mg/L	0.0186		94	81-110			
Dibromoacetic Acid	0.0178	0.0020	mg/L	0.0187		95	89-112			
Surrogate: 2-Bromopropionic Acid	*0.0113*		*mg/L*	0.0117		*96*	*70-130*			
LCS Dup (B2H2524-BSD1)				Prepared: 2022-08-19, Analyzed: 2022-08-20						
Monochloroacetic Acid	0.0574	0.0020	mg/L	0.0564		102	75-117	4	30	
Monobromoacetic Acid	0.0387	0.0020	mg/L	0.0374		103	83-113	6	30	
Dichloroacetic Acid	0.0590	0.0020	mg/L	0.0558		106	78-112	10	30	
Trichloroacetic Acid	0.0200	0.0020	mg/L	0.0186		107	81-110	13	30	
Dibromoacetic Acid	0.0197	0.0020	mg/L	0.0187		106	89-112	10	30	
Surrogate: 2-Bromopropionic Acid	*0.0120*		*mg/L*	0.0117		*102*	*70-130*			
Matrix Spike (B2H2524-MS1)		**Source: 22H2233-01**		Prepared: 2022-08-19, Analyzed: 2022-08-20						
Monochloroacetic Acid	0.0537	0.0020	mg/L	0.0564	< 0.0020	95	60-140			
Monobromoacetic Acid	0.0397	0.0020	mg/L	0.0374	< 0.0020	106	60-140			
Dichloroacetic Acid	0.117	0.0020	mg/L	0.0558	0.0593	103	60-140			
Trichloroacetic Acid	0.0860	0.0020	mg/L	0.0186	0.0621	129	60-140			
Dibromoacetic Acid	0.0187	0.0020	mg/L	0.0187	< 0.0020	100	60-140			
Surrogate: 2-Bromopropionic Acid	*0.0118*		*mg/L*	0.0117		*100*	*70-130*			
Miscellaneous Herbicides, Batch B2H2970										
Blank (B2H2970-BLK1)				Prepared: 2022-08-26, Analyzed: 2022-08-27						
Glyphosate	< 0.050	0.050	mg/L							
LCS (B2H2970-BS1)				Prepared: 2022-08-26, Analyzed: 2022-08-27						
Glyphosate	0.252	0.050	mg/L	0.250		101	70-130			
LCS Dup (B2H2970-BSD1)				Prepared: 2022-08-26, Analyzed: 2022-08-27						
Glyphosate	0.311	0.050	mg/L	0.250		125	70-130	21	20	RPD1
Pesticides, Herbicides, and Fungicides, Batch B2H2438										
Blank (B2H2438-BLK1)				Prepared: 2022-08-19, Analyzed: 2022-08-20						
Alachlor	< 0.100	0.100	µg/L							
Aldrin	< 0.006	0.006	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							
Butachlor	< 0.020	0.020	µg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	22H2233
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B2H2438, Continued										
Blank (B2H2438-BLK1), Continued				Prepared: 2022-08-19, Analyzed: 2022-08-20						
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	< 0.100	0.100	µg/L							
DDT, Total	< 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 + 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							
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							
Permethrin	< 0.010	0.010	µg/L							
Phorate	< 0.100	0.100	µg/L							
Prometon	< 0.300	0.300	µg/L							
Prometryne	< 0.100	0.100	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	*0.701*		*µg/L*	0.998		*70*	*50-140*			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	*0.881*		*µg/L*	1.00		*88*	*50-140*			
LCS (B2H2438-BS1)				Prepared: 2022-08-19, Analyzed: 2022-08-20						
Alachlor	0.840	0.100	µg/L	1.01		83	50-140			
Aldrin	0.759	0.006	µg/L	1.00		76	50-140			
Atrazine	0.861	0.100	µg/L	1.01		85	50-140			
Atrazine-desethyl	0.647	0.100	µg/L	1.03		63	50-140			
Azinphos-methyl	0.654	0.200	µg/L	0.981		67	50-140			
alpha-BHC	0.827	0.010	µg/L	1.01		82	50-140			
beta-BHC	0.836	0.050	µg/L	1.01		83	50-140			
delta-BHC	0.971	0.050	µg/L	1.00		97	50-140			
gamma-BHC (Lindane)	0.875	0.050	µg/L	1.00		87	50-140			
Bromacil	0.818	0.100	µg/L	1.01		81	50-140			
Bromoxynil	0.888	0.200	µg/L	0.978		91	50-140			

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REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	22H2233
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B2H2438, Continued										
LCS (B2H2438-BS1), Continued				Prepared: 2022-08-19, Analyzed: 2022-08-20						
Butachlor	0.762	0.020	µg/L	1.01		75	50-140			
Captan	1.09	0.100	µg/L	0.996		109	50-140			
Chlordane (cis + trans)	1.67	0.050	µg/L	2.01		83	50-140			
Chlorothalonil	1.08	0.050	µg/L	1.01		107	50-140			
Chlorpyrifos	0.717	0.010	µg/L	1.00		72	50-140			
Cyanazine	0.816	0.100	µg/L	1.01		81	50-140			
DDT, Total	4.63	0.010	µg/L	5.99		77	50-140			
Deltamethrin	8.83	0.100	µg/L	10.1		87	50-140			
Diazinon	0.833	0.020	µg/L	1.00		83	50-140			
Dichlorvos	0.563	0.100	µg/L	1.09		52	50-140			
Diclofop-methyl	0.685	0.100	µg/L	1.02		67	50-140			
Dieldrin	0.757	0.010	µg/L	1.00		76	50-140			
Dimethoate	0.643	0.200	µg/L	0.990		65	50-140			
Disulfoton	0.793	0.100	µg/L	1.02		78	50-140			
Diuron	0.671	0.200	µg/L	1.06		63	50-140			
Endosulfan I + II	1.52	0.010	µg/L	2.01		76	50-140			
Endosulfan sulfate	0.872	0.050	µg/L	1.01		86	50-140			
Endrin	0.728	0.020	µg/L	1.01		72	50-140			
Endrin aldehyde	0.747	0.020	µg/L	1.00		75	50-140			
Endrin ketone	0.953	0.020	µg/L	1.01		94	50-140			
Fenchlorphos (Ronnel)	0.829	0.100	µg/L	1.03		80	50-140			
Heptachlor	0.788	0.010	µg/L	1.01		78	50-140			
Heptachlor epoxide	0.852	0.010	µg/L	1.01		84	50-140			
Linuron	0.728	0.050	µg/L	1.07		68	50-140			
Malathion	0.852	0.100	µg/L	1.00		85	50-140			
Methoxychlor	1.10	0.050	µg/L	1.01		109	50-140			
Methyl parathion	0.712	0.100	µg/L	0.997		71	50-140			
Metolachlor	0.833	0.100	µg/L	1.00		83	50-140			
Metribuzin	0.798	0.200	µg/L	1.00		80	50-140			
Parathion	0.877	0.100	µg/L	0.999		88	50-140			
Pentachloronitrobenzene	0.812	0.100	µg/L	0.989		82	50-140			
Permethrin	0.752	0.010	µg/L	1.04		72	50-140			
Phorate	0.712	0.100	µg/L	1.00		71	50-140			
Prometon	0.546	0.300	µg/L	1.00		55	50-140			
Prometryne	0.648	0.100	µg/L	1.00		65	50-140			
Simazine	0.788	0.200	µg/L	1.01		78	50-140			
Sulfotep	0.901	0.100	µg/L	1.04		87	50-140			
Tebuthiuron	0.509	0.200	µg/L	1.01		50	50-140			
Temephos (Abate)	5.90	0.500	µg/L	10.5		56	50-140			
Terbufos	0.848	0.100	µg/L	0.994		85	50-140			
Triallate	0.846	0.100	µg/L	0.992		85	50-140			
Trifluralin	0.844	0.200	µg/L	1.00		84	50-140			
Surrogate: Tributyl Phosphate	*0.746*		*µg/L*	0.998		*75*	*50-140*			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	*0.709*		*µg/L*	1.00		*71*	*50-140*			
LCS Dup (B2H2438-BSD1)				Prepared: 2022-08-19, Analyzed: 2022-08-20						
Alachlor	0.816	0.100	µg/L	1.01		81	50-140	3	30	
Aldrin	0.745	0.006	µg/L	1.00		74	50-140	2	30	
Atrazine	0.842	0.100	µg/L	1.01		83	50-140	2	30	
Atrazine-desethyl	0.631	0.100	µg/L	1.03		61	50-140	2	30	
Azinphos-methyl	0.606	0.200	µg/L	0.981		62	50-140	8	30	
alpha-BHC	0.820	0.010	µg/L	1.01		81	50-140	< 1	30	
beta-BHC	0.805	0.050	µg/L	1.01		80	50-140	4	30	
delta-BHC	0.943	0.050	µg/L	1.00		94	50-140	3	30	
gamma-BHC (Lindane)	0.836	0.050	µg/L	1.00		84	50-140	5	30	
Bromacil	0.758	0.100	µg/L	1.01		75	50-140	8	30	

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	22H2233
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B2H2438, Continued										
LCS Dup (B2H2438-BSD1), Continued				Prepared: 2022-08-19, Analyzed: 2022-08-20						
Bromoxynil	0.801	0.200	µg/L	0.978		82	50-140	10	30	
Butachlor	0.730	0.020	µg/L	1.01		72	50-140	4	30	
Captan	1.06	0.100	µg/L	0.996		106	50-140	3	30	
Chlordane (cis + trans)	1.60	0.050	µg/L	2.01		80	50-140	4	30	
Chlorothalonil	1.04	0.050	µg/L	1.01		103	50-140	4	30	
Chlorpyrifos	0.705	0.010	µg/L	1.00		70	50-140	2	30	
Cyanazine	0.828	0.100	µg/L	1.01		82	50-140	2	30	
DDT, Total	4.48	0.010	µg/L	5.99		75	50-140	3	30	
Deltamethrin	8.27	0.100	µg/L	10.1		82	50-140	7	30	
Diazinon	0.825	0.020	µg/L	1.00		83	50-140	< 1	30	
Dichlorvos	0.481	0.100	µg/L	1.09		44	50-140	16	30	SPK1
Diclofop-methyl	0.658	0.100	µg/L	1.02		64	50-140	4	30	
Dieldrin	0.736	0.010	µg/L	1.00		74	50-140	3	30	
Dimethoate	0.688	0.200	µg/L	0.990		69	50-140	7	30	
Disulfoton	0.756	0.100	µg/L	1.02		74	50-140	5	30	
Diuron	0.564	0.200	µg/L	1.06		53	50-140	17	30	
Endosulfan I + II	1.49	0.010	µg/L	2.01		74	50-140	2	30	
Endosulfan sulfate	0.828	0.050	µg/L	1.01		82	50-140	5	30	
Endrin	0.696	0.020	µg/L	1.01		69	50-140	4	30	
Endrin aldehyde	0.723	0.020	µg/L	1.00		72	50-140	3	30	
Endrin ketone	0.893	0.020	µg/L	1.01		88	50-140	6	30	
Fenchlorphos (Ronnel)	0.819	0.100	µg/L	1.03		80	50-140	1	30	
Heptachlor	0.920	0.010	µg/L	1.01		91	50-140	15	30	
Heptachlor epoxide	0.818	0.010	µg/L	1.01		81	50-140	4	30	
Linuron	0.681	0.050	µg/L	1.07		64	50-140	7	30	
Malathion	0.820	0.100	µg/L	1.00		82	50-140	4	30	
Methoxychlor	1.05	0.050	µg/L	1.01		104	50-140	4	30	
Methyl parathion	0.693	0.100	µg/L	0.997		69	50-140	3	30	
Metolachlor	0.797	0.100	µg/L	1.00		80	50-140	4	30	
Metribuzin	0.755	0.200	µg/L	1.00		75	50-140	6	30	
Parathion	0.825	0.100	µg/L	0.999		83	50-140	6	30	
Pentachloronitrobenzene	0.791	0.100	µg/L	0.989		80	50-140	3	30	
Permethrin	0.711	0.010	µg/L	1.04		68	50-140	6	30	
Phorate	0.714	0.100	µg/L	1.00		71	50-140	< 1	30	
Prometon	0.760	0.300	µg/L	1.00		76	50-140	33	30	RPD
Prometryne	0.773	0.100	µg/L	1.00		77	50-140	18	30	
Simazine	0.789	0.200	µg/L	1.01		78	50-140	< 1	30	
Sulfotep	0.865	0.100	µg/L	1.04		83	50-140	4	30	
Tebuthiuron	0.748	0.200	µg/L	1.01		74	50-140	38	30	RPD
Temephos (Abate)	5.56	0.500	µg/L	10.5		53	50-140	6	30	
Terbufos	0.816	0.100	µg/L	0.994		82	50-140	4	30	
Triallate	0.819	0.100	µg/L	0.992		83	50-140	3	30	
Trifluralin	0.809	0.200	µg/L	1.00		81	50-140	4	30	
Surrogate: Tributyl Phosphate	*0.800*		*µg/L*	0.998		*80*	*50-140*			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	*0.645*		*µg/L*	1.00		*64*	*50-140*			
Polycyclic Aromatic Hydrocarbons (PAH), Batch B2H2304										
Blank (B2H2304-BLK1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
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							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	22H2233
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B2H2304, Continued										
Blank (B2H2304-BLK1), Continued				Prepared: 2022-08-18, Analyzed: 2022-08-18						
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	*30.0*		*µg/L*	29.6		*101*	*50-140*			
Surrogate: Perylene-d12	*33.5*		*µg/L*	29.6		*113*	*50-140*			
LCS (B2H2304-BS2)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Acenaphthene	23.1	0.050	µg/L	22.2		104	50-140			
Acenaphthylene	24.9	0.200	µg/L	22.2		112	50-140			
Anthracene	23.6	0.010	µg/L	22.2		106	50-140			
Benz(a)anthracene	24.8	0.010	µg/L	22.2		112	50-140			
Benzo(a)pyrene	25.5	0.010	µg/L	22.2		115	50-140			
Benzo(b+j)fluoranthene	44.5	0.050	µg/L	44.4		100	50-140			
Benzo(g,h,i)perylene	26.2	0.050	µg/L	22.2		118	50-140			
Benzo(k)fluoranthene	21.9	0.050	µg/L	22.2		99	50-140			
2-Chloronaphthalene	21.2	0.100	µg/L	22.4		95	50-140			
Chrysene	24.0	0.050	µg/L	22.2		108	50-140			
Dibenz(a,h)anthracene	29.4	0.010	µg/L	22.2		132	50-140			
Fluoranthene	23.3	0.030	µg/L	22.2		105	50-140			
Fluorene	23.4	0.050	µg/L	22.2		106	50-140			
Indeno(1,2,3-cd)pyrene	26.5	0.050	µg/L	22.2		119	50-140			
1-Methylnaphthalene	22.7	0.100	µg/L	22.2		102	50-140			
2-Methylnaphthalene	22.4	0.100	µg/L	22.2		101	50-140			
Naphthalene	23.3	0.200	µg/L	22.2		105	50-140			
Phenanthrene	22.9	0.100	µg/L	22.2		103	50-140			
Pyrene	23.1	0.020	µg/L	22.2		104	50-140			
Quinoline	26.0	0.050	µg/L	23.4		111	50-140			
Surrogate: Naphthalene-d8	*30.7*		*µg/L*	29.6		*103*	*50-140*			
Surrogate: Perylene-d12	*32.8*		*µg/L*	29.6		*111*	*50-140*			
Total Metals, Batch B2H2367										
Blank (B2H2367-BLK1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Mercury, total	< 0.000010	0.000010	mg/L							
Blank (B2H2367-BLK2)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Mercury, total	< 0.000010	0.000010	mg/L							
LCS (B2H2367-BS1)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Mercury, total	0.000496	0.000010	mg/L	0.000500		99	80-120			
LCS (B2H2367-BS2)				Prepared: 2022-08-18, Analyzed: 2022-08-18						
Mercury, total	0.000492	0.000010	mg/L	0.000500		98	80-120			
Duplicate (B2H2367-DUP1)			**Source: 22H2233-01**	Prepared: 2022-08-18, Analyzed: 2022-08-18						
Mercury, total	< 0.000010	0.000010	mg/L		< 0.000010				20	

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	22H2233
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B2H2473										
Blank (B2H2473-BLK1)				Prepared: 2022-08-19, Analyzed: 2022-08-21						
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 (B2H2473-BS1)				Prepared: 2022-08-19, Analyzed: 2022-08-21						
Aluminum, total	3.86	0.0050	mg/L	4.00		97	80-120			
Antimony, total	0.0372	0.00020	mg/L	0.0400		93	80-120			
Arsenic, total	0.0371	0.00050	mg/L	0.0400		93	80-120			
Barium, total	0.0380	0.0050	mg/L	0.0400		95	80-120			
Boron, total	< 0.0500	0.0500	mg/L	0.0400		107	80-120			
Cadmium, total	0.0375	0.000010	mg/L	0.0400		94	80-120			
Calcium, total	3.95	0.20	mg/L	4.00		99	80-120			
Chromium, total	0.0382	0.00050	mg/L	0.0400		96	80-120			
Copper, total	0.0395	0.00040	mg/L	0.0400		99	80-120			
Iron, total	3.85	0.010	mg/L	4.00		96	80-120			
Lead, total	0.0394	0.00020	mg/L	0.0400		98	80-120			
Magnesium, total	3.97	0.010	mg/L	4.00		99	80-120			
Manganese, total	0.0386	0.00020	mg/L	0.0400		97	80-120			
Potassium, total	3.87	0.10	mg/L	4.00		97	80-120			
Selenium, total	0.0373	0.00050	mg/L	0.0400		93	80-120			
Silver, total	0.0391	0.000050	mg/L	0.0400		98	80-120			
Sodium, total	3.92	0.10	mg/L	4.00		98	80-120			
Strontium, total	0.0379	0.0010	mg/L	0.0400		95	80-120			
Uranium, total	0.0392	0.000020	mg/L	0.0400		98	80-120			
Zinc, total	0.0374	0.0040	mg/L	0.0400		94	80-120			
Volatile Organic Compounds (VOC), Batch B2H2091										
Blank (B2H2091-BLK1)				Prepared: 2022-08-17, Analyzed: 2022-08-18						
Benzene	< 0.5	0.5	µg/L							S02
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	< 0.0010	0.0010	mg/L							
1,2-Dibromoethane	< 0.3	0.3	µg/L							
Dibromomethane	< 1.0	1.0	µg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	22H2233
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B2H2091, Continued										
Blank (B2H2091-BLK1), Continued				Prepared: 2022-08-17, Analyzed: 2022-08-18						
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	< 1.0	1.0	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	*0.0131*		*mg/L*	0.0200		*65*	*70-130*			*S02*
Surrogate: 4-Bromofluorobenzene	*13.2*		*µg/L*	20.0		*66*	*70-130*			*S02*
LCS (B2H2091-BS1)				Prepared: 2022-08-17, Analyzed: 2022-08-18						
Benzene	19.4	0.5	µg/L	20.1		97	70-130			
Bromodichloromethane	18.7	1.0	µg/L	20.1		93	70-130			
Bromoform	17.7	1.0	µg/L	20.1		88	70-130			
Carbon tetrachloride	20.5	0.5	µg/L	20.0		103	70-130			
Chlorobenzene	19.6	1.0	µg/L	20.0		98	70-130			
Chloroethane	13.7	2.0	µg/L	20.1		68	60-140			
Chloroform	0.0202	0.0010	mg/L	0.0201		101	70-130			
Dibromochloromethane	18.6	1.0	µg/L	20.1		93	70-130			
1,2-Dibromoethane	18.5	0.3	µg/L	20.1		92	70-130			
Dibromomethane	16.9	1.0	µg/L	20.0		85	70-130			
1,2-Dichlorobenzene	21.7	0.5	µg/L	20.1		108	70-130			
1,3-Dichlorobenzene	22.8	1.0	µg/L	20.1		114	70-130			
1,4-Dichlorobenzene	22.3	1.0	µg/L	20.0		112	70-130			
1,1-Dichloroethane	19.8	1.0	µg/L	20.1		99	70-130			
1,2-Dichloroethane	21.9	1.0	µg/L	20.1		109	70-130			
1,1-Dichloroethylene	16.6	1.0	µg/L	20.1		83	70-130			
cis-1,2-Dichloroethylene	18.3	1.0	µg/L	20.1		91	70-130			
trans-1,2-Dichloroethylene	14.4	1.0	µg/L	20.1		71	70-130			
Dichloromethane	16.5	3.0	µg/L	20.1		82	70-130			
1,2-Dichloropropane	22.9	1.0	µg/L	20.0		114	70-130			
1,3-Dichloropropene (cis + trans)	39.1	1.0	µg/L	40.0		98	70-130			
Ethylbenzene	21.8	1.0	µg/L	20.0		109	70-130			
Methyl tert-butyl ether	21.9	1.0	µg/L	20.0		109	70-130			
Styrene	22.5	1.0	µg/L	20.1		112	70-130			
1,1,2,2-Tetrachloroethane	18.5	0.5	µg/L	20.1		92	70-130			
Tetrachloroethylene	20.0	1.0	µg/L	20.1		100	70-130			
Toluene	22.3	1.0	µg/L	20.1		111	70-130			
1,1,1-Trichloroethane	20.1	1.0	µg/L	20.1		100	70-130			
1,1,2-Trichloroethane	18.6	1.0	µg/L	20.1		93	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	22H2233
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B2H2091, Continued										
LCS (B2H2091-BS1), Continued				Prepared: 2022-08-17, Analyzed: 2022-08-18						
Trichloroethylene	19.0	1.0	µg/L	20.1		95	70-130			
Trichlorofluoromethane	14.8	1.0	µg/L	20.1		73	60-140			
Vinyl chloride	13.1	1.0	µg/L	20.1		65	60-140			
Xylenes (total)	70.5	2.0	µg/L	60.2		117	70-130			
Surrogate: Toluene-d8	*21.8*		*µg/L*	20.0		*109*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0216*		*mg/L*	0.0200		*108*	*70-130*			
Duplicate (B2H2091-DUP1)			**Source: 22H2233-04**	Prepared: 2022-08-17, Analyzed: 2022-08-18						
Benzene	< 0.5	0.5	µg/L		< 0.5				30	
Bromodichloromethane	2.7	1.0	µg/L		2.7				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	0.0699	0.0010	mg/L		0.0723			3	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	
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-Dichloropropene (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	< 1.0	1.0	µg/L		< 1.0				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	*21.1*		*µg/L*	20.0		*106*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0201*		*mg/L*	0.0200		*101*	*70-130*			
Matrix Spike (B2H2091-MS1)			**Source: 22H2233-04**	Prepared: 2022-08-17, Analyzed: 2022-08-18						
Benzene	22.0	0.5	µg/L	20.1	< 0.5	110	70-130			
Bromodichloromethane	26.4	1.0	µg/L	20.1	2.7	118	70-130			
Bromoform	20.0	1.0	µg/L	20.1	< 1.0	99	70-130			
Carbon tetrachloride	22.9	0.5	µg/L	20.0	< 0.5	115	70-130			
Chlorobenzene	22.3	1.0	µg/L	20.0	< 1.0	112	70-130			
Chloroethane	14.2	2.0	µg/L	20.1	< 2.0	71	60-140			
Chloroform	90.7	1.0	µg/L	20.1	72.3	91	70-130			
Dibromochloromethane	18.3	1.0	µg/L	20.1	< 1.0	91	70-130			
1,2-Dibromoethane	18.8	0.3	µg/L	20.1	< 0.3	94	70-130			
Dibromomethane	19.3	1.0	µg/L	20.0	< 1.0	97	70-130			
1,2-Dichlorobenzene	24.0	0.5	µg/L	20.1	< 0.5	120	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	22H2233
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2022-08-30 14:25

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B2H2091, Continued										
Matrix Spike (B2H2091-MS1), Continued	**Source: 22H2233-04**			Prepared: 2022-08-17, Analyzed: 2022-08-18						
1,3-Dichlorobenzene	24.3	1.0	µg/L	20.1	< 1.0	121	70-130			
1,4-Dichlorobenzene	23.8	1.0	µg/L	20.0	< 1.0	119	70-130			
1,1-Dichloroethane	21.1	1.0	µg/L	20.1	< 1.0	105	70-130			
1,2-Dichloroethane	21.5	1.0	µg/L	20.1	< 1.0	107	70-130			
1,1-Dichloroethylene	15.1	1.0	µg/L	20.1	< 1.0	75	70-130			
cis-1,2-Dichloroethylene	20.4	1.0	µg/L	20.1	< 1.0	101	70-130			
trans-1,2-Dichloroethylene	15.1	1.0	µg/L	20.1	< 1.0	75	70-130			
Dichloromethane	18.0	3.0	µg/L	20.1	< 3.0	90	70-130			
1,2-Dichloropropane	25.4	1.0	µg/L	20.0	< 1.0	127	70-130			
1,3-Dichloropropene (cis + trans)	< 1.0	1.0	µg/L	40.0	< 1.0		70-130			MS1
Ethylbenzene	23.9	1.0	µg/L	20.0	< 1.0	119	70-130			
Methyl tert-butyl ether	24.6	1.0	µg/L	20.0	< 1.0	123	70-130			
Styrene	24.3	1.0	µg/L	20.1	< 1.0	121	70-130			
1,1,2,2-Tetrachloroethane	17.9	0.5	µg/L	20.1	< 0.5	89	70-130			
Tetrachloroethylene	20.9	1.0	µg/L	20.1	< 1.0	104	70-130			
Toluene	24.3	1.0	µg/L	20.1	< 1.0	121	70-130			
1,1,1-Trichloroethane	22.1	1.0	µg/L	20.1	< 1.0	110	70-130			
1,1,2-Trichloroethane	21.1	1.0	µg/L	20.1	< 1.0	105	70-130			
Trichloroethylene	24.4	1.0	µg/L	20.1	< 1.0	121	70-130			
Trichlorofluoromethane	13.8	1.0	µg/L	20.1	< 1.0	68	60-140			
Vinyl chloride	13.5	1.0	µg/L	20.1	< 1.0	67	60-140			
Xylenes (total)	76.7	2.0	µg/L	60.2	< 2.0	127	70-130			
Surrogate: Toluene-d8	*0.0200*		*mg/L*	0.0200		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0209*		*mg/L*	0.0200		*105*	*70-130*			

QC Qualifiers:

MS1	The matrix spike recovery was outside of control limits due to a matrix effect and/or interference.
RPD	Relative percent difference (RPD) of duplicate analysis are outside of control limits for unknown reason(s).
RPD1	Relative percent difference(s) (RPD) of one or more analytes on duplicate analysis are outside of control limits due to sample heterogeneity.
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.