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**	9090387
PO NUMBER		**RECEIVED / TEMP**	2019-09-05 09:05 / 20°C
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20
PROJECT INFO		**COC NUMBER**	08855

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 17025:2005 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.

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

Authorized By:

Sara Gulenchyn, B.Sc, P.Chem.
Client Service Manager

TEST RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated- schedule 4 Code of Practice (9090387-01) | Matrix: Water | Sampled: 2019-09-03						
Acid Herbicides						
2,4,5-T	< 0.10	N/A	0.10	µg/L	2019-09-19	
2,4-D	< 0.10	MAC = 100	0.10	µg/L	2019-09-19	
Dicamba	< 0.10	MAC = 120	0.10	µg/L	2019-09-19	
Dinoseb	< 0.10	N/A	0.10	µg/L	2019-09-19	
MCPA	< 0.20	MAC = 100	0.20	µg/L	2019-09-19	
Picloram	< 0.10	MAC = 190	0.10	µg/L	2019-09-19	
Surrogate: 2,4-DCAA	*78*		*60-126*	%	*2019-09-19*	
Anions						
Bromate	< 0.010	MAC = 0.01	0.010	mg/L	2019-09-05	
Chlorate	< 0.50	MAC = 1	0.50	mg/L	2019-09-07	
Chloride	**7.15**	AO ≤ 250	0.50	mg/L	2019-09-07	
Chlorite	< 0.50	MAC = 1	0.50	mg/L	2019-09-07	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2019-09-07	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	2019-09-07	HT1
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2019-09-07	HT1
Sulfate	**34.9**	AO ≤ 500	1.0	mg/L	2019-09-07	
Calculated Parameters						
Total Trihalomethanes	**0.121**	MAC = 0.1	0.00400	mg/L	N/A	
Chloramines	**0.130**	MAC = 3	0.0200	mg/L	N/A	
Hardness, Total (as CaCO3)	**174**	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	**202**	AO ≤ 500	3.35	mg/L	N/A	
Carbamates						
Aldicarb	< 0.0010	N/A	0.0010	mg/L	2019-09-17	
Bendiocarb	< 0.0010	N/A	0.0010	mg/L	2019-09-17	
Carbaryl	< 0.0010	MAC = 0.09	0.0010	mg/L	2019-09-17	
Carbofuran	< 0.0010	MAC = 0.09	0.0010	mg/L	2019-09-17	
Chlorinated Phenols						
2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2019-09-10	
3 & 4-Chlorophenol	< 0.10	N/A	0.10	µg/L	2019-09-10	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2019-09-10	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2019-09-10	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20	µg/L	2019-09-10	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2019-09-10	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2019-09-10	
3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2019-09-10	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2019-09-10	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2019-09-10	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2019-09-10	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2019-09-10	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2019-09-10	

TEST RESULTS

REPORTED TO Mountainview Regional Water Services Commission
PROJECT Schedule 4 - Code of Practice

WORK ORDER 9090387
REPORTED 2019-10-04 15:20

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated- schedule 4 Code of Practice (9090387-01) | Matrix: Water | Sampled: 2019-09-03, Continued						
Chlorinated Phenols, Continued						
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2019-09-10	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2019-09-10	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50	µg/L	2019-09-10	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2019-09-10	
Surrogate: 2,4-Dibromophenol	*88*		*60-130*	%	*2019-09-10*	
Surrogate: 2,4,6-Tribromophenol	*108*		*60-130*	%	*2019-09-10*	
General Parameters						
Alkalinity, Total (as CaCO3)	**152**	N/A	2.0	mg/L	2019-09-12	
Bicarbonate (HCO3)	**186**	N/A	2.0	mg/L	2019-09-12	
Carbonate (CO3)	< 2.0	N/A	2.0	mg/L	2019-09-12	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	2019-09-12	
Ammonia, Total (as N)	**0.066**	None Required	0.050	mg/L	2019-09-13	
Carbon, Total Organic	**2.81**	N/A	0.50	mg/L	2019-09-10	
Chlorine, Total	**0.92**	None Required	0.02	mg/L	2019-09-09	HT2
Chlorine, Free	**0.79**	N/A	0.02	mg/L	2019-09-09	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2019-09-06	
Conductivity (EC)	**368**	N/A	2.0	µS/cm	2019-09-12	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2019-09-09	
Nitrilotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	2019-09-09	
pH	**7.48**	7.0-10.5	0.10	pH units	2019-09-12	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2019-09-06	
Turbidity	< 0.10	OG < 1	0.10	NTU	2019-09-06	HT1
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2019-09-14	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2019-09-14	
Dichloroacetic Acid	**0.0355**	N/A	0.0020	mg/L	2019-09-14	
Trichloroacetic Acid	**0.0452**	N/A	0.0020	mg/L	2019-09-14	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2019-09-14	
Total Haloacetic Acids (HAA5)	**0.0808**	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	*101*		*70-130*	%	*2019-09-14*	
Miscellaneous Herbicides						
Diquat	< 0.0100	MAC = 0.07	0.0100	mg/L	2019-09-09	
Paraquat	< 0.0050	MAC = 0.007	0.0050	mg/L	2019-09-09	
Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	2019-09-16	
Pesticides, Herbicides, and Fungicides						
Alachlor	< 0.100	N/A	0.100	µg/L	2019-09-13	
Aldrin	< 0.006	N/A	0.006	µg/L	2019-09-13	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2019-09-13	
Azinphos-methyl	< 0.200	MAC = 20	0.200	µg/L	2019-09-13	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2019-09-13	

TEST RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated- schedule 4 Code of Practice (9090387-01) | Matrix: Water | Sampled: 2019-09-03, Continued						
Pesticides, Herbicides, and Fungicides, Continued						
beta-BHC	< 0.050	N/A	0.050	µg/L	2019-09-13	
delta-BHC	< 0.050	N/A	0.050	µg/L	2019-09-13	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2019-09-13	
Bromacil	< 0.100	N/A	0.100	µg/L	2019-09-13	
Bromoxynil	< 0.200	MAC = 5	0.200	µg/L	2019-09-13	
Butachlor	< 0.020	N/A	0.020	µg/L	2019-09-13	
Captan	< 0.100	N/A	0.100	µg/L	2019-09-13	
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2019-09-13	
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2019-09-13	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2019-09-13	
Cyanazine	< 0.100	N/A	0.100	µg/L	2019-09-13	
DDT, Total	< 0.010	N/A	0.010	µg/L	2019-09-13	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2019-09-13	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2019-09-13	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2019-09-13	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2019-09-13	
Dieldrin	< 0.010	N/A	0.010	µg/L	2019-09-13	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2019-09-13	
Disulfoton	< 0.100	N/A	0.100	µg/L	2019-09-13	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2019-09-13	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2019-09-13	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2019-09-13	
Endrin	< 0.020	N/A	0.020	µg/L	2019-09-13	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2019-09-13	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2019-09-13	
Fenchlorphos (Ronnel)	< 0.100	N/A	0.100	µg/L	2019-09-13	
Heptachlor	< 0.010	N/A	0.010	µg/L	2019-09-13	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2019-09-13	
Linuron	< 0.050	N/A	0.050	µg/L	2019-09-13	
Malathion	< 0.100	MAC = 190	0.100	µg/L	2019-09-13	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2019-09-13	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2019-09-13	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2019-09-13	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2019-09-13	
Parathion	< 0.100	N/A	0.100	µg/L	2019-09-13	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2019-09-13	
Permethrin	< 0.010	N/A	0.010	µg/L	2019-09-13	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2019-09-13	
Prometon	< 0.300	N/A	0.300	µg/L	2019-09-13	
Prometryne	< 0.100	N/A	0.100	µg/L	2019-09-13	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2019-09-13	
Sulfotep	< 0.100	N/A	0.100	µg/L	2019-09-13	

TEST RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated- schedule 4 Code of Practice (9090387-01) | Matrix: Water | Sampled: 2019-09-03, Continued						
Pesticides, Herbicides, and Fungicides, Continued						
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2019-09-13	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2019-09-13	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2019-09-13	
Triallate	< 0.100	N/A	0.100	µg/L	2019-09-13	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2019-09-13	
Surrogate: Tributyl Phosphate	*90*		*50-140*	%	*2019-09-13*	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	*72*		*50-140*	%	*2019-09-13*	
Polycyclic Aromatic Hydrocarbons (PAH)						
Acenaphthene	< 0.050	N/A	0.050	µg/L	2019-09-09	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2019-09-09	
Acridine	< 0.050	N/A	0.050	µg/L	2019-09-09	
Anthracene	< 0.010	N/A	0.010	µg/L	2019-09-09	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2019-09-09	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2019-09-09	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2019-09-09	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2019-09-09	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2019-09-09	
2-Chloronaphthalene	< 0.100	N/A	0.100	µg/L	2019-09-09	
Chrysene	< 0.050	N/A	0.050	µg/L	2019-09-09	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2019-09-09	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2019-09-09	
Fluorene	< 0.050	N/A	0.050	µg/L	2019-09-09	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2019-09-09	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2019-09-09	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2019-09-09	
Naphthalene	< 0.200	N/A	0.200	µg/L	2019-09-09	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2019-09-09	
Pyrene	< 0.020	N/A	0.020	µg/L	2019-09-09	
Quinoline	**0.097**	N/A	0.050	µg/L	2019-09-09	
Surrogate: Acridine-d9	*78*		*50-140*	%	*2019-09-09*	
Surrogate: Naphthalene-d8	*80*		*50-140*	%	*2019-09-09*	
Surrogate: Perylene-d12	*94*		*50-140*	%	*2019-09-09*	
Total Metals						
Aluminum, total	**0.0328**	OG < 0.1	0.0050	mg/L	2019-09-08	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2019-09-08	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2019-09-08	
Barium, total	**0.110**	MAC = 1	0.0050	mg/L	2019-09-08	
Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2019-09-08	
Bismuth, total	< 0.00010	N/A	0.00010	mg/L	2019-09-08	
Boron, total	**0.0165**	MAC = 5	0.0050	mg/L	2019-09-08	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2019-09-08	

TEST RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated- schedule 4 Code of Practice (9090387-01) | Matrix: Water | Sampled: 2019-09-03, Continued						
Total Metals, Continued						
Calcium, total	**44.4**	None Required	0.20	mg/L	2019-09-08	
Chromium, total	**0.00109**	MAC = 0.05	0.00050	mg/L	2019-09-08	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2019-09-08	
Copper, total	< 0.00040	MAC = 2	0.00040	mg/L	2019-09-08	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2019-09-08	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2019-09-08	
Lithium, total	**0.00546**	N/A	0.00010	mg/L	2019-09-08	
Magnesium, total	**15.3**	None Required	0.010	mg/L	2019-09-08	
Manganese, total	**0.00024**	MAC = 0.12	0.00020	mg/L	2019-09-08	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2019-09-11	
Molybdenum, total	**0.00097**	N/A	0.00010	mg/L	2019-09-08	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2019-09-08	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2019-09-08	
Potassium, total	**1.12**	N/A	0.10	mg/L	2019-09-08	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2019-09-08	
Silicon, total	**2.8**	N/A	1.0	mg/L	2019-09-08	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2019-09-08	
Sodium, total	**5.86**	AO ≤ 200	0.10	mg/L	2019-09-08	
Strontium, total	**0.331**	7	0.0010	mg/L	2019-09-08	
Sulfur, total	**12.7**	N/A	3.0	mg/L	2019-09-08	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2019-09-08	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2019-09-08	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2019-09-08	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2019-09-08	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2019-09-08	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2019-09-08	
Uranium, total	**0.000139**	MAC = 0.02	0.000020	mg/L	2019-09-08	
Vanadium, total	**0.0011**	N/A	0.0010	mg/L	2019-09-08	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2019-09-08	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2019-09-08	
Volatile Organic Compounds (VOC)						S03
Benzene	< 0.5	MAC = 5	0.5	µg/L	2019-09-11	
Bromodichloromethane	**4.8**	N/A	1.0	µg/L	2019-09-11	
Bromoform	**5.4**	N/A	1.0	µg/L	2019-09-11	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2019-09-11	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2019-09-11	
Chloroethane	< 2.0	N/A	2.0	µg/L	2019-09-11	
Chloroform	**109**	N/A	1.0	µg/L	2019-09-11	
Dibromochloromethane	**1.7**	N/A	1.0	µg/L	2019-09-11	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2019-09-11	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2019-09-11	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5	µg/L	2019-09-11	

TEST RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated- schedule 4 Code of Practice (9090387-01) | Matrix: Water | Sampled: 2019-09-03, Continued						
Volatile Organic Compounds (VOC), Continued						S03
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2019-09-11	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2019-09-11	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2019-09-11	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2019-09-11	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0	µg/L	2019-09-11	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2019-09-11	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2019-09-11	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2019-09-11	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2019-09-11	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2019-09-11	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2019-09-11	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2019-09-11	
Styrene	< 1.0	N/A	1.0	µg/L	2019-09-11	
1,1,2,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2019-09-11	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2019-09-11	
Toluene	< 1.0	AO ≤ 24	1.0	µg/L	2019-09-11	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2019-09-11	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2019-09-11	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2019-09-11	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2019-09-11	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2019-09-11	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2019-09-11	
Surrogate: Toluene-d8	*11*		*70-130*	%	*2019-09-11*	
Surrogate: 4-Bromofluorobenzene	*91*		*70-130*	%	*2019-09-11*	
Surrogate: 1,4-Dichlorobenzene-d4	*88*		*70-130*	%	*2019-09-11*	

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.
S03	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analysis Description	Method Ref.	Technique	Location
Acid Herbicides in Water	EPA 8151A*	DCM Extraction with Diazomethane Derivatization, GC-MS	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
Carbamates in Water	EPA 531.2*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	Richmond
Carbon, Total Organic in Water	SM 5310 B (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
Diquat/Paraquat in Water	EPA 549.2*	Liquid-Solid Extraction and HPLC-DAD	Richmond
Glyphosate in Water	EPA 547*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	Richmond
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)	Richmond
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
Turbidity in Water	SM 2130 B (2017)	Nephelometry	Edmonton
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	Richmond

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

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

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 unless otherwise 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:sgulenchyn@caro.ca

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

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 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 B9I1110										
Blank (B9I1110-BLK1)				Prepared: 2019-09-13, Analyzed: 2019-09-19						
2,4,5-T	< 0.10	0.10	µg/L							
2,4-D	< 0.10	0.10	µg/L							
Dicamba	< 0.10	0.10	µg/L							
Dinoseb	< 0.10	0.10	µg/L							
MCPA	< 0.20	0.20	µg/L							
Picloram	< 0.10	0.10	µg/L							
Surrogate: 2,4-DCAA	*0.777*		*µg/L*	1.01		*77*	*60-126*			
LCS (B9I1110-BS1)				Prepared: 2019-09-13, Analyzed: 2019-09-19						
2,4,5-T	1.00	0.10	µg/L	1.03		97	75-110			
2,4-D	1.09	0.10	µg/L	1.03		106	71-110			
Dicamba	0.89	0.10	µg/L	1.02		87	56-110			
Dinoseb	0.89	0.10	µg/L	1.09		82	52-110			
MCPA	93.1	2.00	µg/L	100		93	57-110			
Picloram	0.81	0.10	µg/L	1.05		77	50-110			
Surrogate: 2,4-DCAA	*0.781*		*µg/L*	1.01		*77*	*60-126*			
Anions, Batch B9I0134										
Blank (B9I0134-BLK1)				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Chlorate	< 0.50	0.50	mg/L							
Chloride	< 0.50	0.50	mg/L							
Chlorite	< 0.50	0.50	mg/L							
Fluoride	< 0.10	0.10	mg/L							
Nitrate (as N)	< 0.050	0.050	mg/L							
Nitrite (as N)	< 0.050	0.050	mg/L							
Sulfate	< 1.0	1.0	mg/L							
Blank (B9I0134-BLK2)				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Chlorate	< 0.50	0.50	mg/L							
Chloride	< 0.50	0.50	mg/L							
Chlorite	< 0.50	0.50	mg/L							
Fluoride	< 0.10	0.10	mg/L							
Nitrate (as N)	< 0.050	0.050	mg/L							
Nitrite (as N)	< 0.050	0.050	mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Anions, Batch B9I0134, Continued										
Blank (B9I0134-BLK2), Continued				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Sulfate	< 1.0	1.0	mg/L							
LCS (B9I0134-BS1)				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Chlorate	10.5	0.50	mg/L	10.0		105	89-112			
Chloride	10.2	0.50	mg/L	10.0		102	90-110			
Chlorite	10.1	0.50	mg/L	10.0		101	80-120			
Fluoride	0.99	0.10	mg/L	1.00		99	85-115			
Nitrate (as N)	0.942	0.050	mg/L	1.00		94	92-108			
Nitrite (as N)	0.493	0.050	mg/L	0.500		99	85-115			
Sulfate	51.4	1.0	mg/L	50.0		103	90-110			
LCS (B9I0134-BS2)				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Chlorate	10.4	0.50	mg/L	10.0		104	89-112			
Chloride	10.0	0.50	mg/L	10.0		100	90-110			
Chlorite	10.3	0.50	mg/L	10.0		103	80-120			
Fluoride	0.97	0.10	mg/L	1.00		97	85-115			
Nitrate (as N)	0.942	0.050	mg/L	1.00		94	92-108			
Nitrite (as N)	0.494	0.050	mg/L	0.500		99	85-115			
Sulfate	50.9	1.0	mg/L	50.0		102	90-110			
Duplicate (B9I0134-DUP2)		**Source: 9090387-01**		Prepared: 2019-09-07, Analyzed: 2019-09-07						
Chlorate	< 0.50	0.50	mg/L		< 0.50				9	
Chloride	7.24	0.50	mg/L		7.15			1	7	
Chlorite	< 0.50	0.50	mg/L		< 0.50				20	
Fluoride	< 0.10	0.10	mg/L		< 0.10				15	
Nitrate (as N)	< 0.050	0.050	mg/L		< 0.050				12	
Nitrite (as N)	< 0.050	0.050	mg/L		< 0.050				18	
Sulfate	35.0	1.0	mg/L		34.9			< 1	8	
Matrix Spike (B9I0134-MS2)		**Source: 9090387-01**		Prepared: 2019-09-07, Analyzed: 2019-09-07						
Chlorate	10.6	0.50	mg/L	10.0	< 0.50	106	85-115			
Chloride	17.9	0.50	mg/L	10.0	7.15	107	85-115			
Chlorite	4.85	0.50	mg/L	5.00	< 0.50	97	80-120			
Fluoride	1.09	0.10	mg/L	1.00	< 0.10	109	85-115			
Nitrate (as N)	1.02	0.050	mg/L	1.00	< 0.050	102	87-111			
Nitrite (as N)	0.527	0.050	mg/L	0.500	< 0.050	105	81-127			
Sulfate	74.5	1.0	mg/L	40.0	34.9	99	85-115			
Matrix Spike Dup (B9I0134-MSD2)		**Source: 9090387-01**		Prepared: 2019-09-07, Analyzed: 2019-09-07						
Chlorate	10.5	0.50	mg/L	10.0	< 0.50	105	85-115	< 1		
Chloride	17.8	0.50	mg/L	10.0	7.15	106	85-115	< 1		
Chlorite	4.83	0.50	mg/L	5.00	< 0.50	97	80-120	< 1		
Fluoride	1.05	0.10	mg/L	1.00	< 0.10	105	85-115	4		
Nitrate (as N)	1.02	0.050	mg/L	1.00	< 0.050	102	87-111	< 1		
Nitrite (as N)	0.501	0.050	mg/L	0.500	< 0.050	100	81-127	5		
Sulfate	74.2	1.0	mg/L	40.0	34.9	98	85-115	< 1		
Carbamates, Batch B9I1368										
Blank (B9I1368-BLK1)				Prepared: 2019-09-17, Analyzed: 2019-09-17						
Aldicarb	< 0.0010	0.0010	mg/L							
Bendiocarb	< 0.0010	0.0010	mg/L							
Carbaryl	< 0.0010	0.0010	mg/L							
Carbofuran	< 0.0010	0.0010	mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Carbamates, Batch B9I1368, Continued										
LCS (B9I1368-BS1)				Prepared: 2019-09-17, Analyzed: 2019-09-17						
Aldicarb	0.0187	0.0010	mg/L	0.0200		93	80-120			
Bendiocarb	0.0214	0.0010	mg/L	0.0200		107	80-120			
Carbaryl	0.0220	0.0010	mg/L	0.0200		110	80-120			
Carbofuran	0.0230	0.0010	mg/L	0.0200		115	80-120			
LCS Dup (B9I1368-BSD1)				Prepared: 2019-09-17, Analyzed: 2019-09-17						
Aldicarb	0.0171	0.0010	mg/L	0.0200		86	80-120	9	20	
Bendiocarb	0.0209	0.0010	mg/L	0.0200		105	80-120	2	20	
Carbaryl	0.0190	0.0010	mg/L	0.0200		95	80-120	15	20	
Carbofuran	0.0230	0.0010	mg/L	0.0200		115	80-120	< 1	20	
Matrix Spike (B9I1368-MS1)		**Source: 9090387-01**		Prepared: 2019-09-17, Analyzed: 2019-09-17						
Aldicarb	0.0193	0.0010	mg/L	0.0200	< 0.0010	96	70-130			
Bendiocarb	0.0207	0.0010	mg/L	0.0200	< 0.0010	104	70-130			
Carbaryl	0.0209	0.0010	mg/L	0.0200	< 0.0010	104	70-130			
Carbofuran	0.0226	0.0010	mg/L	0.0200	< 0.0010	113	70-130			
Chlorinated Phenols, Batch B9I0547										
Blank (B9I0547-BLK1)				Prepared: 2019-09-08, Analyzed: 2019-09-10						
2-Chlorophenol	< 0.10	0.10	µg/L							
3 & 4-Chlorophenol	< 0.10	0.10	µg/L							
4-Chloro-3-Methylphenol	< 0.20	0.20	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	*1.70*		*µg/L*	2.02		*84*	*60-130*			
Surrogate: 2,4,6-Tribromophenol	*2.14*		*µg/L*	2.00		*107*	*60-130*			
LCS (B9I0547-BS1)				Prepared: 2019-09-08, Analyzed: 2019-09-09						
2-Chlorophenol	7.14	0.10	µg/L	10.0		71	60-108			
3 & 4-Chlorophenol	14.5	0.10	µg/L	20.1		72	60-120			
4-Chloro-3-Methylphenol	7.38	0.20	µg/L	10.1		73	60-140			
2,3-Dichlorophenol	7.25	0.20	µg/L	10.0		72	60-111			
2,4 & 2,5-Dichlorophenol	15.9	0.20	µg/L	20.2		78	60-116			
2,6-Dichlorophenol	8.50	0.20	µg/L	10.0		85	60-112			
3,4-Dichlorophenol	8.87	0.20	µg/L	10.0		89	60-120			
3,5-Dichlorophenol	8.83	0.20	µg/L	10.0		88	60-121			
2,3,4-Trichlorophenol	8.26	0.50	µg/L	10.0		83	60-122			
2,3,5-Trichlorophenol	10.7	0.50	µg/L	10.0		107	60-126			
2,3,6-Trichlorophenol	9.89	0.50	µg/L	10.0		99	60-130			
2,4,5-Trichlorophenol	10.2	0.50	µg/L	10.0		102	60-118			
2,4,6-Trichlorophenol	9.83	0.50	µg/L	10.0		98	60-120			
3,4,5-Trichlorophenol	11.4	0.50	µg/L	10.0		113	60-129			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Chlorinated Phenols, Batch B9I0547, Continued										
LCS (B9I0547-BS1), Continued				Prepared: 2019-09-08, Analyzed: 2019-09-09						
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	18.2	0.50	µg/L	20.0		91	60-127			
2,3,4,6-Tetrachlorophenol	8.30	0.50	µg/L	10.0		83	60-127			
Pentachlorophenol	9.74	0.50	µg/L	10.0		97	60-130			
Surrogate: 2,4-Dibromophenol	*1.68*		*µg/L*	2.02		*83*	*60-130*			
Surrogate: 2,4,6-Tribromophenol	*1.93*		*µg/L*	2.00		*96*	*60-130*			
LCS Dup (B9I0547-BSD1)				Prepared: 2019-09-08, Analyzed: 2019-09-09						
2-Chlorophenol	6.78	0.10	µg/L	10.0		68	60-108	5	32	
3 & 4-Chlorophenol	15.6	0.10	µg/L	20.1		78	60-120	8	21	
4-Chloro-3-Methylphenol	8.05	0.20	µg/L	10.1		80	60-140	9	30	
2,3-Dichlorophenol	7.84	0.20	µg/L	10.0		78	60-111	8	27	
2,4 & 2,5-Dichlorophenol	18.1	0.20	µg/L	20.2		89	60-116	13	22	
2,6-Dichlorophenol	8.91	0.20	µg/L	10.0		89	60-112	5	27	
3,4-Dichlorophenol	9.47	0.20	µg/L	10.0		95	60-120	7	22	
3,5-Dichlorophenol	9.14	0.20	µg/L	10.0		91	60-121	3	23	
2,3,4-Trichlorophenol	8.87	0.50	µg/L	10.0		89	60-122	7	26	
2,3,5-Trichlorophenol	11.5	0.50	µg/L	10.0		115	60-126	7	24	
2,3,6-Trichlorophenol	10.7	0.50	µg/L	10.0		107	60-130	8	26	
2,4,5-Trichlorophenol	10.9	0.50	µg/L	10.0		109	60-118	7	22	
2,4,6-Trichlorophenol	10.7	0.50	µg/L	10.0		106	60-120	8	26	
3,4,5-Trichlorophenol	11.5	0.50	µg/L	10.0		115	60-129	1	19	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	18.2	0.50	µg/L	20.0		91	60-127	< 1	26	
2,3,4,6-Tetrachlorophenol	9.08	0.50	µg/L	10.0		90	60-127	9	23	
Pentachlorophenol	9.92	0.50	µg/L	10.0		99	60-130	2	17	
Surrogate: 2,4-Dibromophenol	*1.82*		*µg/L*	2.02		*90*	*60-130*			
Surrogate: 2,4,6-Tribromophenol	*2.05*		*µg/L*	2.00		*102*	*60-130*			
General Parameters, Batch B9I0198										
Blank (B9I0198-BLK1)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Carbon, Total Organic	< 0.50	0.50	mg/L							
Blank (B9I0198-BLK2)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Carbon, Total Organic	< 0.50	0.50	mg/L							
Blank (B9I0198-BLK3)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Carbon, Total Organic	< 0.50	0.50	mg/L							
Blank (B9I0198-BLK4)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Carbon, Total Organic	< 0.50	0.50	mg/L							
Blank (B9I0198-BLK5)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Carbon, Total Organic	< 0.50	0.50	mg/L							
LCS (B9I0198-BS1)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Carbon, Total Organic	10.6	0.50	mg/L	10.0		106	78-116			
LCS (B9I0198-BS2)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Carbon, Total Organic	10.7	0.50	mg/L	10.0		107	78-116			
LCS (B9I0198-BS3)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Carbon, Total Organic	10.5	0.50	mg/L	10.0		105	78-116			
LCS (B9I0198-BS4)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Carbon, Total Organic	10.6	0.50	mg/L	10.0		106	78-116			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B9I0198, Continued										
LCS (B9I0198-BS5)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Carbon, Total Organic	10.8	0.50	mg/L	10.0		108	78-116			
General Parameters, Batch B9I0307										
Blank (B9I0307-BLK1)				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Turbidity	< 0.10	0.10	NTU							
LCS (B9I0307-BS1)				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Turbidity	43.2	0.10	NTU	40.0		108	90-110			
General Parameters, Batch B9I0370										
Blank (B9I0370-BLK1)				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Colour, True	< 5.0	5.0	CU							
LCS (B9I0370-BS1)				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Colour, True	20	5.0	CU	20.0		99	90-109			
General Parameters, Batch B9I0412										
Blank (B9I0412-BLK1)				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Sulfide, Total	< 0.020	0.020	mg/L							
LCS (B9I0412-BS1)				Prepared: 2019-09-06, Analyzed: 2019-09-06						
Sulfide, Total	0.501	0.020	mg/L	0.530		94	80-120			
Matrix Spike (B9I0412-MS1)		**Source: 9090387-01**		Prepared: 2019-09-06, Analyzed: 2019-09-06						
Sulfide, Total	0.417	0.020	mg/L	0.460	< 0.020	91	70-130			
General Parameters, Batch B9I0554										
Blank (B9I0554-BLK1)				Prepared: 2019-09-09, Analyzed: 2019-09-09						
Chlorine, Total	< 0.02	0.02	mg/L							
Chlorine, Free	< 0.02	0.02	mg/L							
Reference (B9I0554-SRM1)				Prepared: 2019-09-09, Analyzed: 2019-09-09						
Chlorine, Total	1.57	0.02	mg/L	1.59		99	91.2-108.8			
Chlorine, Free	1.57	0.02	mg/L	1.59		99	91.2-108.8			
General Parameters, Batch B9I0618										
Blank (B9I0618-BLK1)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Cyanide, Total	< 0.0020	0.0020	mg/L							
Blank (B9I0618-BLK2)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Cyanide, Total	< 0.0020	0.0020	mg/L							
LCS (B9I0618-BS1)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Cyanide, Total	0.0177	0.0020	mg/L	0.0200		88	82-120			
LCS (B9I0618-BS2)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Cyanide, Total	0.0199	0.0020	mg/L	0.0200		99	82-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B9I0618, Continued										
LCS Dup (B9I0618-BSD1)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Cyanide, Total	0.0192	0.0020	mg/L	0.0200		96	82-120	8	10	
LCS Dup (B9I0618-BSD2)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Cyanide, Total	0.0200	0.0020	mg/L	0.0200		100	82-120	< 1	10	
General Parameters, Batch B9I0637										
Blank (B9I0637-BLK1)				Prepared: 2019-09-09, Analyzed: 2019-09-09						
Nitrilotriacetic Acid	< 0.20	0.20	mg/L							
LCS (B9I0637-BS1)				Prepared: 2019-09-09, Analyzed: 2019-09-09						
Nitrilotriacetic Acid	0.90	0.20	mg/L	1.00		90	80-120			
LCS Dup (B9I0637-BSD1)				Prepared: 2019-09-09, Analyzed: 2019-09-09						
Nitrilotriacetic Acid	0.80	0.20	mg/L	1.00		80	80-120	11	20	
General Parameters, Batch B9I0670										
Blank (B9I0670-BLK1)				Prepared: 2019-09-12, Analyzed: 2019-09-12						
Alkalinity, Total (as CaCO3)	2.3	2.0	mg/L							BLK
Bicarbonate (HCO3)	2.9	2.0	mg/L							BLK
Carbonate (CO3)	< 2.0	2.0	mg/L							
Hydroxide (OH)	< 2.0	2.0	mg/L							
LCS (B9I0670-BS1)				Prepared: 2019-09-12, Analyzed: 2019-09-12						
Alkalinity, Total (as CaCO3)	244	2.0	mg/L	250		98	94-108			
General Parameters, Batch B9I0672										
Reference (B9I0672-SRM1)				Prepared: 2019-09-12, Analyzed: 2019-09-12						
pH	7.05	0.10	pH units	7.00		101	98-102			
General Parameters, Batch B9I0924										
Blank (B9I0924-BLK1)				Prepared: 2019-09-12, Analyzed: 2019-09-12						
Conductivity (EC)	< 2.0	2.0	µS/cm							
LCS (B9I0924-BS1)				Prepared: 2019-09-12, Analyzed: 2019-09-12						
Conductivity (EC)	993	2.0	µS/cm	1000		99	95-105			
General Parameters, Batch B9I1076										
Blank (B9I1076-BLK1)				Prepared: 2019-09-13, Analyzed: 2019-09-13						
Ammonia, Total (as N)	< 0.050	0.050	mg/L							
LCS (B9I1076-BS1)				Prepared: 2019-09-13, Analyzed: 2019-09-13						
Ammonia, Total (as N)	0.203	0.050	mg/L	0.200		101	85-115			
Haloacetic Acids, Batch B9I0780										
Blank (B9I0780-BLK1)				Prepared: 2019-09-11, Analyzed: 2019-09-14						
Monochloroacetic Acid	< 0.0020	0.0020	mg/L							
Monobromoacetic Acid	< 0.0020	0.0020	mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Haloacetic Acids, Batch B9I0780, Continued										
Blank (B9I0780-BLK1), Continued				Prepared: 2019-09-11, Analyzed: 2019-09-14						
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		*99*	*70-130*			
LCS (B9I0780-BS1)				Prepared: 2019-09-11, Analyzed: 2019-09-14						
Monochloroacetic Acid	0.0601	0.0020	mg/L	0.0556		108	75-117			
Monobromoacetic Acid	0.0359	0.0020	mg/L	0.0371		97	83-113			
Dichloroacetic Acid	0.0525	0.0020	mg/L	0.0557		94	78-112			
Trichloroacetic Acid	0.0181	0.0020	mg/L	0.0185		98	81-110			
Dibromoacetic Acid	0.0188	0.0020	mg/L	0.0185		102	89-112			
Surrogate: 2-Bromopropionic Acid	*0.0117*		*mg/L*	0.0117		*100*	*70-130*			
LCS Dup (B9I0780-BSD1)				Prepared: 2019-09-11, Analyzed: 2019-09-14						
Monochloroacetic Acid	0.0467	0.0020	mg/L	0.0556		84	75-117	25	30	
Monobromoacetic Acid	0.0365	0.0020	mg/L	0.0371		98	83-113	2	30	
Dichloroacetic Acid	0.0541	0.0020	mg/L	0.0557		97	78-112	3	30	
Trichloroacetic Acid	0.0183	0.0020	mg/L	0.0185		99	81-110	1	30	
Dibromoacetic Acid	0.0191	0.0020	mg/L	0.0185		103	89-112	2	30	
Surrogate: 2-Bromopropionic Acid	*0.0115*		*mg/L*	0.0117		*98*	*70-130*			
Miscellaneous Herbicides, Batch B9I0587										
Blank (B9I0587-BLK1)				Prepared: 2019-09-09, Analyzed: 2019-09-09						
Diquat	< 0.0100	0.0100	mg/L							
Paraquat	< 0.0050	0.0050	mg/L							
LCS (B9I0587-BS1)				Prepared: 2019-09-09, Analyzed: 2019-09-09						
Diquat	0.0029	0.0010	mg/L	0.00250		117	70-130			
Paraquat	0.0030	0.0005	mg/L	0.00251		118	80-120			
LCS Dup (B9I0587-BSD1)				Prepared: 2019-09-09, Analyzed: 2019-09-09						
Diquat	0.0028	0.0010	mg/L	0.00250		114	70-130	3	20	
Paraquat	0.0029	0.0005	mg/L	0.00251		116	80-120	2	20	
Miscellaneous Herbicides, Batch B9I1278										
Blank (B9I1278-BLK1)				Prepared: 2019-09-16, Analyzed: 2019-09-16						
Glyphosate	< 0.050	0.050	mg/L							
LCS (B9I1278-BS1)				Prepared: 2019-09-16, Analyzed: 2019-09-16						
Glyphosate	0.210	0.050	mg/L	0.250		84	70-130			
LCS Dup (B9I1278-BSD1)				Prepared: 2019-09-16, Analyzed: 2019-09-16						
Glyphosate	0.207	0.050	mg/L	0.250		83	70-130	1	20	
Pesticides, Herbicides, and Fungicides, Batch B9I0594										
Blank (B9I0594-BLK1)				Prepared: 2019-09-09, Analyzed: 2019-09-17						
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							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B9I0594, Continued										
Blank (B9I0594-BLK1), Continued				Prepared: 2019-09-09, Analyzed: 2019-09-17						
delta-BHC	< 0.050	0.050	µg/L							
gamma-BHC (Lindane)	< 0.050	0.050	µg/L							
Bromacil	< 0.100	0.100	µg/L							
Bromoxynil	< 0.200	0.200	µg/L							
Butachlor	< 0.020	0.020	µg/L							
Captan	< 0.100	0.100	µg/L							
Chlordane (cis + trans)	< 0.050	0.050	µg/L							
Chlorothalonil	< 0.050	0.050	µg/L							
Chlorpyrifos	< 0.010	0.010	µg/L							
Cyanazine	< 0.100	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	*0.936*		*µg/L*	1.00		*94*	*50-140*			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	*0.748*		*µg/L*	1.00		*75*	*50-140*			
LCS (B9I0594-BS1)				Prepared: 2019-09-09, Analyzed: 2019-09-13						
Alachlor	0.916	0.100	µg/L	1.00		92	65-118			
Aldrin	0.828	0.006	µg/L	1.00		83	58-107			
Atrazine	0.872	0.100	µg/L	1.00		87	61-122			
Atrazine-desethyl	1.10	0.100	µg/L	0.991		111	50-140			
Azinphos-methyl	0.897	0.200	µg/L	1.00		90	53-127			
alpha-BHC	0.786	0.010	µg/L	1.01		78	54-134			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B9I0594, Continued										
LCS (B9I0594-BS1), Continued				Prepared: 2019-09-09, Analyzed: 2019-09-13						
beta-BHC	0.862	0.050	µg/L	1.01		85	58-112			
delta-BHC	0.824	0.050	µg/L	1.00		82	58-119			
gamma-BHC (Lindane)	0.766	0.050	µg/L	1.00		77	59-113			
Bromacil	1.11	0.100	µg/L	1.00		111	52-123			
Bromoxynil	0.986	0.200	µg/L	1.00		99	50-132			
Butachlor	1.05	0.020	µg/L	1.01		104	50-140			
Captan	1.72	0.100	µg/L	1.01		170	63-137			SPK1
Chlordane (cis + trans)	1.74	0.050	µg/L	2.01		87	50-140			
Chlorothalonil	0.885	0.050	µg/L	1.01		88	50-110			
Chlorpyrifos	0.929	0.010	µg/L	1.00		93	61-121			
Cyanazine	0.993	0.100	µg/L	1.00		99	57-126			
DDT, Total	4.57	0.010	µg/L	5.78		79	50-140			
Deltamethrin	8.74	0.100	µg/L	9.96		88	50-121			
Diazinon	1.13	0.020	µg/L	1.00		113	52-126			
Dichlorvos	0.932	0.100	µg/L	1.00		93	50-110			
Diclofop-methyl	1.02	0.100	µg/L	1.01		101	58-112			
Dieldrin	0.854	0.010	µg/L	1.00		85	64-112			
Dimethoate	0.863	0.200	µg/L	0.989		87	50-120			
Disulfoton	0.880	0.100	µg/L	1.00		88	50-122			
Diuron	1.15	0.200	µg/L	0.988		116	54-116			
Endosulfan I + II	1.69	0.010	µg/L	2.01		84	50-140			
Endosulfan sulfate	0.985	0.050	µg/L	1.01		98	64-110			
Endrin	0.922	0.020	µg/L	1.01		91	59-123			
Endrin aldehyde	1.01	0.020	µg/L	1.00		101	58-118			
Endrin ketone	0.769	0.020	µg/L	1.01		76	53-114			
Fenchlorphos (Ronnel)	0.840	0.100	µg/L	0.998		84	63-110			
Heptachlor	0.795	0.010	µg/L	1.01		79	58-128			
Heptachlor epoxide	0.860	0.010	µg/L	1.01		85	64-110			
Linuron	1.01	0.050	µg/L	1.00		101	59-140			
Malathion	1.08	0.100	µg/L	1.00		108	61-121			
Methoxychlor	0.841	0.050	µg/L	1.01		83	53-121			
Methyl parathion	1.03	0.100	µg/L	1.00		103	65-114			
Metolachlor	0.979	0.100	µg/L	1.01		97	65-112			
Metribuzin	0.998	0.200	µg/L	1.00		100	53-123			
Parathion	0.977	0.100	µg/L	0.997		98	53-130			
Pentachloronitrobenzene	0.787	0.100	µg/L	0.998		79	54-136			
Permethrin	1.01	0.010	µg/L	0.997		101	50-130			
Phorate	0.930	0.100	µg/L	1.00		93	55-120			
Prometon	0.882	0.300	µg/L	1.00		88	57-124			
Prometryne	0.926	0.100	µg/L	1.00		93	50-140			
Simazine	0.863	0.200	µg/L	1.00		86	54-119			
Sulfotep	0.856	0.100	µg/L	0.997		86	61-121			
Tebuthiuron	1.06	0.200	µg/L	1.01		105	50-127			
Temephos (Abate)	8.26	0.500	µg/L	9.94		83	67-135			
Terbufos	0.878	0.100	µg/L	0.993		88	51-122			
Triallate	0.902	0.100	µg/L	0.995		91	50-120			
Trifluralin	0.875	0.200	µg/L	1.00		88	52-129			
Surrogate: Tributyl Phosphate	*0.950*		*µg/L*	1.00		*95*	*50-140*			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	*0.721*		*µg/L*	1.00		*72*	*50-140*			
LCS Dup (B9I0594-BSD1)				Prepared: 2019-09-09, Analyzed: 2019-09-13						
Alachlor	0.886	0.100	µg/L	1.00		89	65-118	3	30	
Aldrin	0.784	0.006	µg/L	1.00		78	58-107	5	30	
Atrazine	0.835	0.100	µg/L	1.00		84	61-122	4	30	
Atrazine-desethyl	1.09	0.100	µg/L	0.991		110	50-140	< 1	30	
Azinphos-methyl	0.889	0.200	µg/L	1.00		89	53-127	< 1	30	

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B9I0594, Continued										
LCS Dup (B9I0594-BSD1), Continued				Prepared: 2019-09-09, Analyzed: 2019-09-13						
alpha-BHC	0.692	0.010	µg/L	1.01		68	54-134	13	30	
beta-BHC	0.780	0.050	µg/L	1.01		77	58-112	10	30	
delta-BHC	0.741	0.050	µg/L	1.00		74	58-119	11	30	
gamma-BHC (Lindane)	0.693	0.050	µg/L	1.00		69	59-113	10	30	
Bromacil	1.08	0.100	µg/L	1.00		108	52-123	2	30	
Bromoxynil	0.974	0.200	µg/L	1.00		97	50-132	1	30	
Butachlor	0.970	0.020	µg/L	1.01		96	50-140	8	30	
Captan	1.60	0.100	µg/L	1.01		158	63-137	7	30	SPK1
Chlordane (cis + trans)	1.61	0.050	µg/L	2.01		80	50-140	8	30	
Chlorothalonil	0.856	0.050	µg/L	1.01		85	50-110	3	30	
Chlorpyrifos	0.840	0.010	µg/L	1.00		84	61-121	10	30	
Cyanazine	0.939	0.100	µg/L	1.00		94	57-126	6	30	
DDT, Total	5.05	0.010	µg/L	5.78		87	50-140	10	30	
Deltamethrin	9.39	0.100	µg/L	9.96		94	50-121	7	30	
Diazinon	1.06	0.020	µg/L	1.00		106	52-126	6	30	
Dichlorvos	0.952	0.100	µg/L	1.00		95	50-110	2	30	
Diclofop-methyl	0.962	0.100	µg/L	1.01		95	58-112	6	30	
Dieldrin	0.791	0.010	µg/L	1.00		79	64-112	8	30	
Dimethoate	0.834	0.200	µg/L	0.989		84	50-120	3	30	
Disulfoton	0.859	0.100	µg/L	1.00		86	50-122	2	30	
Diuron	1.09	0.200	µg/L	0.988		110	54-116	5	30	
Endosulfan I + II	1.60	0.010	µg/L	2.01		80	50-140	6	30	
Endosulfan sulfate	0.925	0.050	µg/L	1.01		92	64-110	6	30	
Endrin	0.842	0.020	µg/L	1.01		83	59-123	9	30	
Endrin aldehyde	0.939	0.020	µg/L	1.00		94	58-118	7	30	
Endrin ketone	0.715	0.020	µg/L	1.01		71	53-114	7	30	
Fenchlorphos (Ronnel)	0.816	0.100	µg/L	0.998		82	63-110	3	30	
Heptachlor	0.735	0.010	µg/L	1.01		73	58-128	8	30	
Heptachlor epoxide	0.792	0.010	µg/L	1.01		78	64-110	8	30	
Linuron	0.977	0.050	µg/L	1.00		98	59-140	3	30	
Malathion	0.955	0.100	µg/L	1.00		96	61-121	12	30	
Methoxychlor	0.806	0.050	µg/L	1.01		80	53-121	4	30	
Methyl parathion	0.980	0.100	µg/L	1.00		98	65-114	4	30	
Metolachlor	0.892	0.100	µg/L	1.01		88	65-112	9	30	
Metribuzin	0.946	0.200	µg/L	1.00		95	53-123	5	30	
Parathion	0.952	0.100	µg/L	0.997		95	53-130	3	30	
Pentachloronitrobenzene	0.752	0.100	µg/L	0.998		75	54-136	4	30	
Permethrin	0.926	0.010	µg/L	0.997		93	50-130	8	30	
Phorate	0.951	0.100	µg/L	1.00		95	55-120	2	30	
Prometon	0.758	0.300	µg/L	1.00		76	57-124	15	30	
Prometryne	0.869	0.100	µg/L	1.00		87	50-140	6	30	
Simazine	0.829	0.200	µg/L	1.00		83	54-119	4	30	
Sulfotep	0.841	0.100	µg/L	0.997		84	61-121	2	30	
Tebuthiuron	1.07	0.200	µg/L	1.01		106	50-127	1	30	
Temephos (Abate)	8.81	0.500	µg/L	9.94		89	67-135	6	30	
Terbufos	0.873	0.100	µg/L	0.993		88	51-122	< 1	30	
Triallate	0.843	0.100	µg/L	0.995		85	50-120	7	30	
Trifluralin	0.873	0.200	µg/L	1.00		87	52-129	< 1	30	
Surrogate: Tributyl Phosphate	*0.963*		*µg/L*	1.00		*96*	*50-140*			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	*0.758*		*µg/L*	1.00		*76*	*50-140*			
Polycyclic Aromatic Hydrocarbons (PAH), Batch B9I0422										
Blank (B9I0422-BLK1)				Prepared: 2019-09-06, Analyzed: 2019-09-09						
Acenaphthene	< 0.050	0.050	µg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B9I0422, Continued										
Blank (B9I0422-BLK1), Continued				Prepared: 2019-09-06, Analyzed: 2019-09-09						
Acenaphthylene	< 0.200	0.200	µg/L							
Acridine	< 0.050	0.050	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: Acridine-d9	*2.51*		*µg/L*	4.38		*57*	*50-140*			
Surrogate: Naphthalene-d8	*3.04*		*µg/L*	4.47		*68*	*50-140*			
Surrogate: Perylene-d12	*2.64*		*µg/L*	4.47		*59*	*50-140*			
LCS (B9I0422-BS1)				Prepared: 2019-09-06, Analyzed: 2019-09-09						
Acenaphthene	3.87	0.050	µg/L	4.44		87	55-137			
Acenaphthylene	4.27	0.200	µg/L	4.44		96	53-140			
Acridine	3.03	0.050	µg/L	4.24		71	50-120			
Anthracene	3.86	0.010	µg/L	4.44		87	64-130			
Benz(a)anthracene	4.21	0.010	µg/L	4.44		95	57-140			
Benzo(a)pyrene	4.18	0.010	µg/L	4.44		94	63-133			
Benzo(b+j)fluoranthene	8.13	0.050	µg/L	8.89		91	60-129			
Benzo(g,h,i)perylene	4.94	0.050	µg/L	4.44		111	52-139			
Benzo(k)fluoranthene	4.32	0.050	µg/L	4.44		97	50-138			
2-Chloronaphthalene	3.68	0.100	µg/L	4.44		83	50-139			
Chrysene	4.02	0.050	µg/L	4.44		90	59-140			
Dibenz(a,h)anthracene	4.40	0.010	µg/L	4.44		99	53-136			
Fluoranthene	3.73	0.030	µg/L	4.44		84	67-135			
Fluorene	3.88	0.050	µg/L	4.44		87	57-134			
Indeno(1,2,3-cd)pyrene	3.57	0.050	µg/L	4.44		80	52-129			
1-Methylnaphthalene	3.81	0.100	µg/L	4.44		86	50-140			
2-Methylnaphthalene	3.81	0.100	µg/L	4.44		86	50-140			
Naphthalene	3.90	0.200	µg/L	4.44		88	50-140			
Phenanthrene	3.84	0.100	µg/L	4.44		86	61-134			
Pyrene	3.60	0.020	µg/L	4.44		81	66-131			
Quinoline	7.16	0.050	µg/L	4.31		166	50-140			SPK
Surrogate: Acridine-d9	*3.24*		*µg/L*	4.38		*74*	*50-140*			
Surrogate: Naphthalene-d8	*3.76*		*µg/L*	4.47		*84*	*50-140*			
Surrogate: Perylene-d12	*3.52*		*µg/L*	4.47		*79*	*50-140*			
LCS Dup (B9I0422-BSD1)				Prepared: 2019-09-06, Analyzed: 2019-09-09						
Acenaphthene	4.19	0.050	µg/L	4.44		94	55-137	8	18	
Acenaphthylene	4.56	0.200	µg/L	4.44		103	53-140	7	20	
Acridine	3.13	0.050	µg/L	4.24		74	50-120	4	30	
Anthracene	3.87	0.010	µg/L	4.44		87	64-130	< 1	15	
Benz(a)anthracene	3.14	0.010	µg/L	4.44		71	57-140	29	25	RPD

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B9I0422, Continued										
LCS Dup (B9I0422-BSD1), Continued				Prepared: 2019-09-06, Analyzed: 2019-09-09						
Benzo(a)pyrene	4.62	0.010	µg/L	4.44		104	63-133	10	18	
Benzo(b+j)fluoranthene	8.32	0.050	µg/L	8.89		94	60-129	2	17	
Benzo(g,h,i)perylene	4.97	0.050	µg/L	4.44		112	52-139	< 1	22	
Benzo(k)fluoranthene	3.90	0.050	µg/L	4.44		88	50-138	10	26	
2-Chloronaphthalene	3.80	0.100	µg/L	4.44		85	50-139	3	23	
Chrysene	3.04	0.050	µg/L	4.44		68	59-140	28	23	RPD
Dibenz(a,h)anthracene	4.99	0.010	µg/L	4.44		112	53-136	13	21	
Fluoranthene	4.58	0.030	µg/L	4.44		103	67-135	20	18	RPD
Fluorene	4.28	0.050	µg/L	4.44		96	57-134	10	18	
Indeno(1,2,3-cd)pyrene	3.90	0.050	µg/L	4.44		88	52-129	9	21	
1-Methylnaphthalene	3.92	0.100	µg/L	4.44		88	50-140	3	20	
2-Methylnaphthalene	3.85	0.100	µg/L	4.44		87	50-140	1	21	
Naphthalene	4.19	0.200	µg/L	4.44		94	50-140	7	22	
Phenanthrene	4.14	0.100	µg/L	4.44		93	61-134	7	17	
Pyrene	4.52	0.020	µg/L	4.44		102	66-131	23	19	RPD
Quinoline	6.86	0.050	µg/L	4.31		159	50-140	4	14	SPK
Surrogate: Acridine-d9	*3.47*		*µg/L*	4.38		*79*	*50-140*			
Surrogate: Naphthalene-d8	*4.32*		*µg/L*	4.47		*97*	*50-140*			
Surrogate: Perylene-d12	*3.93*		*µg/L*	4.47		*88*	*50-140*			
Total Metals, Batch B9I0442										
Blank (B9I0442-BLK1)				Prepared: 2019-09-06, Analyzed: 2019-09-08						
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							
Beryllium, total	< 0.00010	0.00010	mg/L							
Bismuth, total	< 0.00010	0.00010	mg/L							
Boron, total	< 0.0050	0.0050	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							
Cobalt, total	< 0.00010	0.00010	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							
Lithium, total	< 0.00010	0.00010	mg/L							
Magnesium, total	< 0.010	0.010	mg/L							
Manganese, total	< 0.00020	0.00020	mg/L							
Molybdenum, total	< 0.00010	0.00010	mg/L							
Nickel, total	< 0.00040	0.00040	mg/L							
Phosphorus, total	< 0.050	0.050	mg/L							
Potassium, total	< 0.10	0.10	mg/L							
Selenium, total	< 0.00050	0.00050	mg/L							
Silicon, total	< 1.0	1.0	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							
Sulfur, total	< 3.0	3.0	mg/L							
Tellurium, total	< 0.00050	0.00050	mg/L							
Thallium, total	< 0.000020	0.000020	mg/L							
Thorium, total	< 0.00010	0.00010	mg/L							
Tin, total	< 0.00020	0.00020	mg/L							
Titanium, total	< 0.0050	0.0050	mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B9I0442, Continued										
Blank (B9I0442-BLK1), Continued				Prepared: 2019-09-06, Analyzed: 2019-09-08						
Tungsten, total	< 0.0010	0.0010	mg/L							
Uranium, total	< 0.000020	0.000020	mg/L							
Vanadium, total	< 0.0010	0.0010	mg/L							
Zinc, total	< 0.0040	0.0040	mg/L							
Zirconium, total	< 0.00010	0.00010	mg/L							
LCS (B9I0442-BS1)				Prepared: 2019-09-06, Analyzed: 2019-09-08						
Aluminum, total	0.0221	0.0050	mg/L	0.0200		110	80-120			
Antimony, total	0.0202	0.00020	mg/L	0.0200		101	80-120			
Arsenic, total	0.0179	0.00050	mg/L	0.0200		90	80-120			
Barium, total	0.0172	0.0050	mg/L	0.0200		86	80-120			
Beryllium, total	0.0183	0.00010	mg/L	0.0200		92	80-120			
Bismuth, total	0.0180	0.00010	mg/L	0.0200		90	80-120			
Boron, total	0.0177	0.0050	mg/L	0.0200		89	80-120			
Cadmium, total	0.0177	0.000010	mg/L	0.0200		88	80-120			
Calcium, total	1.90	0.20	mg/L	2.02		94	80-120			
Chromium, total	0.0172	0.00050	mg/L	0.0200		86	80-120			
Cobalt, total	0.0175	0.00010	mg/L	0.0200		87	80-120			
Copper, total	0.0174	0.00040	mg/L	0.0200		87	80-120			
Iron, total	1.76	0.010	mg/L	2.02		87	80-120			
Lead, total	0.0180	0.00020	mg/L	0.0200		90	80-120			
Lithium, total	0.0183	0.00010	mg/L	0.0199		92	80-120			
Magnesium, total	1.80	0.010	mg/L	2.02		89	80-120			
Manganese, total	0.0172	0.00020	mg/L	0.0200		86	80-120			
Molybdenum, total	0.0181	0.00010	mg/L	0.0200		91	80-120			
Nickel, total	0.0171	0.00040	mg/L	0.0200		85	80-120			
Phosphorus, total	1.84	0.050	mg/L	2.00		92	80-120			
Potassium, total	1.77	0.10	mg/L	2.02		88	80-120			
Selenium, total	0.0195	0.00050	mg/L	0.0200		98	80-120			
Silicon, total	2.0	1.0	mg/L	2.00		99	80-120			
Silver, total	0.0173	0.000050	mg/L	0.0200		86	80-120			
Sodium, total	1.86	0.10	mg/L	2.02		92	80-120			
Strontium, total	0.0173	0.0010	mg/L	0.0200		87	80-120			
Sulfur, total	4.5	3.0	mg/L	5.00		89	80-120			
Tellurium, total	0.0201	0.00050	mg/L	0.0200		101	80-120			
Thallium, total	0.0182	0.000020	mg/L	0.0200		91	80-120			
Thorium, total	0.0183	0.00010	mg/L	0.0200		91	80-120			
Tin, total	0.0182	0.00020	mg/L	0.0200		91	80-120			
Titanium, total	0.0180	0.0050	mg/L	0.0200		90	80-120			
Tungsten, total	0.0185	0.0010	mg/L	0.0200		93	80-120			
Uranium, total	0.0187	0.000020	mg/L	0.0200		94	80-120			
Vanadium, total	0.0180	0.0010	mg/L	0.0200		90	80-120			
Zinc, total	0.0197	0.0040	mg/L	0.0200		98	80-120			
Zirconium, total	0.0176	0.00010	mg/L	0.0200		88	80-120			
Reference (B9I0442-SRM1)				Prepared: 2019-09-06, Analyzed: 2019-09-08						
Aluminum, total	0.124	0.0050	mg/L	0.118		105	79-114			
Antimony, total	0.0215	0.00020	mg/L	0.0216		100	89-123			
Arsenic, total	0.217	0.00050	mg/L	0.212		103	87-113			
Barium, total	1.51	0.0050	mg/L	1.65		92	85-114			
Beryllium, total	0.106	0.00010	mg/L	0.104		101	79-122			
Boron, total	0.683	0.0050	mg/L	0.825		83	79-117			
Cadmium, total	0.108	0.000010	mg/L	0.110		98	89-112			
Calcium, total	3.45	0.20	mg/L	3.86		89	85-120			
Chromium, total	0.206	0.00050	mg/L	0.217		95	87-113			
Cobalt, total	0.0604	0.00010	mg/L	0.0620		97	90-117			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B9I0442, Continued										
Reference (B9I0442-SRM1), Continued				Prepared: 2019-09-06, Analyzed: 2019-09-08						
Copper, total	0.402	0.00040	mg/L	0.408		99	90-115			
Iron, total	0.599	0.010	mg/L	0.635		94	86-112			
Lead, total	0.0541	0.00020	mg/L	0.0550		98	90-113			
Lithium, total	0.0501	0.00010	mg/L	0.0500		100	77-127			
Magnesium, total	3.12	0.010	mg/L	3.30		95	84-116			
Manganese, total	0.160	0.00020	mg/L	0.171		94	85-113			
Molybdenum, total	0.195	0.00010	mg/L	0.202		97	87-112			
Nickel, total	0.400	0.00040	mg/L	0.418		96	90-114			
Phosphorus, total	0.246	0.050	mg/L	0.250		98	74-119			
Potassium, total	1.39	0.10	mg/L	1.44		97	78-119			
Selenium, total	0.0186	0.00050	mg/L	0.0162		115	89-123			
Sodium, total	8.57	0.10	mg/L	9.00		95	81-117			
Strontium, total	0.438	0.0010	mg/L	0.468		94	82-111			
Thallium, total	0.0194	0.000020	mg/L	0.0192		101	90-113			
Uranium, total	0.124	0.000020	mg/L	0.129		96	87-113			
Vanadium, total	0.413	0.0010	mg/L	0.436		95	85-110			
Zinc, total	0.448	0.0040	mg/L	0.424		106	88-114			
Total Metals, Batch B9I0761										
Blank (B9I0761-BLK1)				Prepared: 2019-09-10, Analyzed: 2019-09-11						
Mercury, total	< 0.000010	0.000010	mg/L							
Blank (B9I0761-BLK2)				Prepared: 2019-09-10, Analyzed: 2019-09-11						
Mercury, total	< 0.000010	0.000010	mg/L							
Reference (B9I0761-SRM1)				Prepared: 2019-09-10, Analyzed: 2019-09-11						
Mercury, total	0.00472	0.000010	mg/L	0.00489		97	80-120			
Reference (B9I0761-SRM2)				Prepared: 2019-09-10, Analyzed: 2019-09-11						
Mercury, total	0.00413	0.000010	mg/L	0.00489		84	80-120			
Volatile Organic Compounds (VOC), Batch B9I0841										
Blank (B9I0841-BLK1)				Prepared: 2019-09-11, Analyzed: 2019-09-11						
Benzene	< 0.5	0.5	µg/L							
Bromodichloromethane	< 1.0	1.0	µg/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	< 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							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B9I0841, Continued										
Blank (B9I0841-BLK1), Continued				Prepared: 2019-09-11, Analyzed: 2019-09-11						
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	*24.6*		*µg/L*	26.2		*94*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*25.1*		*µg/L*	25.0		*101*	*70-130*			
Surrogate: 1,4-Dichlorobenzene-d4	*24.9*		*µg/L*	24.8		*100*	*70-130*			
LCS (B9I0841-BS1)				Prepared: 2019-09-10, Analyzed: 2019-09-10						
Benzene	17.6	0.5	µg/L	20.1		88	70-130			
Bromodichloromethane	19.4	1.0	µg/L	20.1		97	70-130			
Bromoform	22.0	1.0	µg/L	20.1		109	70-130			
Carbon tetrachloride	22.3	0.5	µg/L	20.2		110	70-130			
Chlorobenzene	19.2	1.0	µg/L	20.1		96	70-130			
Chloroethane	21.3	2.0	µg/L	20.0		106	60-140			
Chloroform	20.0	1.0	µg/L	20.1		100	70-130			
Dibromochloromethane	18.7	1.0	µg/L	20.0		93	70-130			
1,2-Dibromoethane	18.2	0.3	µg/L	20.1		90	70-130			
Dibromomethane	19.7	1.0	µg/L	20.1		98	70-130			
1,2-Dichlorobenzene	21.2	0.5	µg/L	20.0		106	70-130			
1,3-Dichlorobenzene	22.9	1.0	µg/L	20.1		114	70-130			
1,4-Dichlorobenzene	23.1	1.0	µg/L	20.0		116	70-130			
1,1-Dichloroethane	20.9	1.0	µg/L	20.0		104	70-130			
1,2-Dichloroethane	20.0	1.0	µg/L	20.1		99	70-130			
1,1-Dichloroethylene	20.6	1.0	µg/L	20.2		102	70-130			
cis-1,2-Dichloroethylene	17.8	1.0	µg/L	20.1		88	70-130			
trans-1,2-Dichloroethylene	18.8	1.0	µg/L	20.2		93	70-130			
Dichloromethane	19.2	3.0	µg/L	20.0		96	70-130			
1,2-Dichloropropane	18.2	1.0	µg/L	20.0		91	70-130			
1,3-Dichloropropene (cis + trans)	33.5	1.0	µg/L	40.0		84	70-130			
Ethylbenzene	18.7	1.0	µg/L	20.1		93	70-130			
Methyl tert-butyl ether	17.1	1.0	µg/L	20.0		85	70-130			
Styrene	17.0	1.0	µg/L	20.1		84	70-130			
1,1,2,2-Tetrachloroethane	21.7	0.5	µg/L	20.2		108	70-130			
Tetrachloroethylene	21.1	1.0	µg/L	20.0		105	70-130			
Toluene	18.9	1.0	µg/L	20.1		94	70-130			
1,1,1-Trichloroethane	21.5	1.0	µg/L	20.1		107	70-130			
1,1,2-Trichloroethane	19.2	1.0	µg/L	20.0		96	70-130			
Trichloroethylene	21.7	1.0	µg/L	20.1		108	70-130			
Trichlorofluoromethane	25.6	1.0	µg/L	20.0		128	60-140			
Vinyl chloride	23.4	1.0	µg/L	20.0		117	60-140			
Xylenes (total)	58.8	2.0	µg/L	60.1		98	70-130			
Surrogate: Toluene-d8	*21.2*		*µg/L*	26.2		*81*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*59.5*		*µg/L*	25.0		*238*	*70-130*			*S02*
Surrogate: 1,4-Dichlorobenzene-d4	*41.0*		*µg/L*	24.8		*165*	*70-130*			*S02*

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Mountainview Regional Water Services Commission	**WORK ORDER**	9090387
PROJECT	Schedule 4 - Code of Practice	**REPORTED**	2019-10-04 15:20

QC Qualifiers:

BLK	Analyte concentration in the Method Blank is above the Reporting Limit (RL).
RPD	Relative percent difference (RPD) of duplicate analysis are outside of control limits for unknown reason(s).
S02	Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.
S09	The surrogate recovery for this sample is outside of established control limits .
SPK	The recovery of this analyte was outside of established control limits.
SPK1	The recovery of this analyte was outside of established control limits. The data was accepted based on performance of other batch QC.