

CERTIFICATE OF ANALYSIS

REPORTED TO Mountainview Regional Water Services Commission
35566 Rge Rd 10
Red Deer County, AB T4G 0H5

ATTENTION Wesley Olstad

PO NUMBER

PROJECT Schedule 4 - Code of Practice

PROJECT INFO

WORK ORDER 9090387

RECEIVED / TEMP 2019-09-05 09:05 / 20°C

REPORTED 2019-10-04 15:20

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.

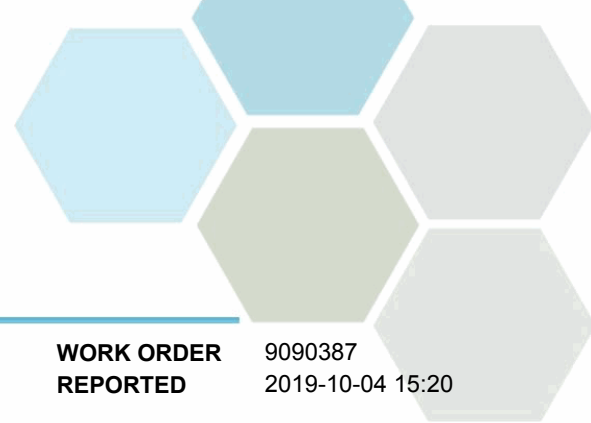
If you have any questions or concerns, please contact me at sgulenchyn@caro.ca

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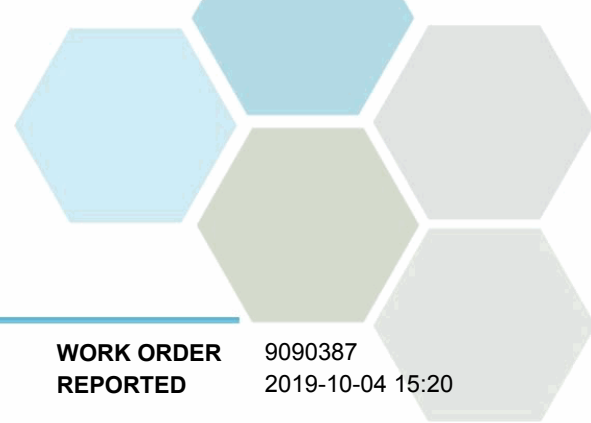


TEST RESULTS

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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	



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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 CaCO ₃)	152	N/A	2.0	mg/L	2019-09-12	
Bicarbonate (HCO ₃)	186	N/A	2.0	mg/L	2019-09-12	
Carbonate (CO ₃)	< 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	
Nitritotriacetic 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

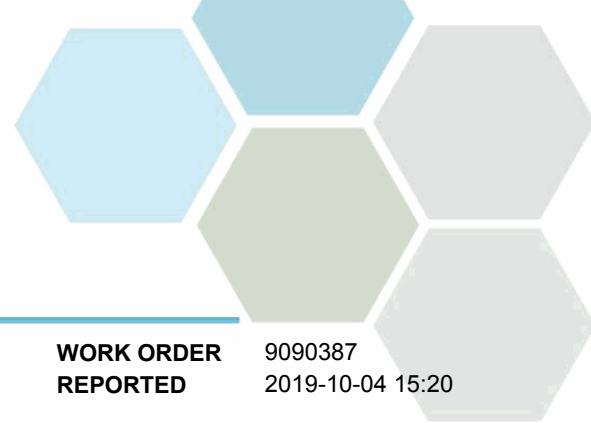
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2019-09-14	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2019-09-14	
Dichloroacetic Acid	0.0355	N/A	0.0020	mg/L	2019-09-14	
Trichloroacetic Acid	0.0452	N/A	0.0020	mg/L	2019-09-14	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2019-09-14	
Total Haloacetic 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	

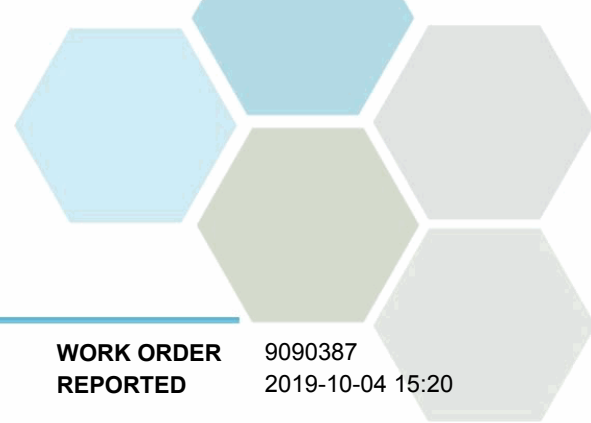


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<i>Pesticides, Herbicides, and Fungicides, Continued</i>					
beta-BHC	< 0.050	N/A	0.050 µg/L	2019-09-13	
delta-BHC	< 0.050	N/A	0.050 µg/L	2019-09-13	
gamma-BHC (Lindane)	< 0.050	N/A	0.050 µg/L	2019-09-13	
Bromacil	< 0.100	N/A	0.100 µg/L	2019-09-13	
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 (Ronnell)	< 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	



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Pesticides, Herbicides, and Fungicides, Continued

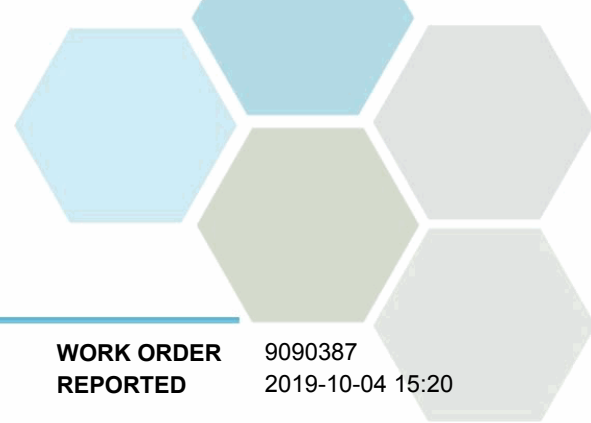
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2019-09-13	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2019-09-13	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2019-09-13	
Triallate	< 0.100	N/A	0.100	µg/L	2019-09-13	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2019-09-13	
Surrogate: Tributyl Phosphate	90		50-140	%	2019-09-13	
Surrogate: 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	



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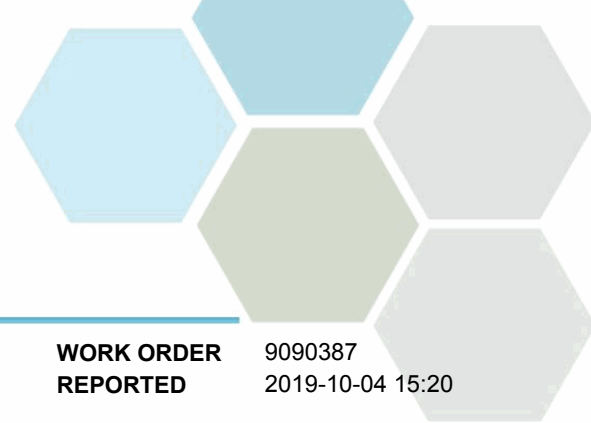
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<i>Total Metals, Continued</i>					
Calcium, total	44.4	None Required	0.20 mg/L	2019-09-08	
Chromium, total	0.00109	MAC = 0.05	0.00050 mg/L	2019-09-08	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2019-09-08	
Copper, total	< 0.00040	MAC = 2	0.00040 mg/L	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	



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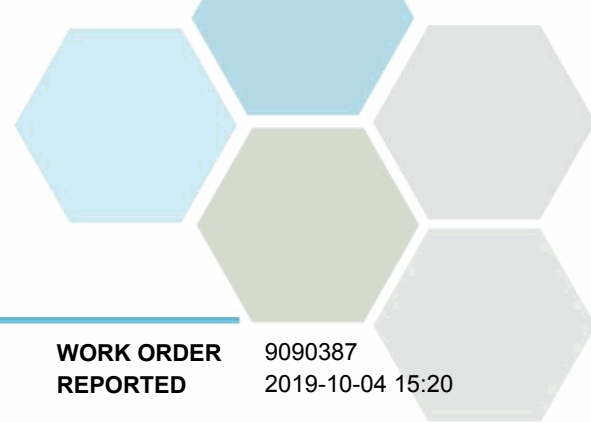
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<i>Volatile Organic Compounds (VOC), Continued</i>					S03
1,3-Dichlorobenzene	< 1.0	N/A	1.0 µg/L	2019-09-11	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0 µg/L	2019-09-11	
1,1-Dichloroethane	< 1.0	N/A	1.0 µg/L	2019-09-11	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0 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.



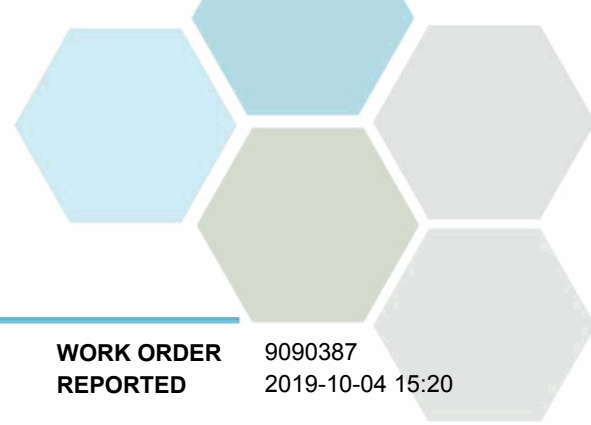
APPENDIX 1: SUPPORTING INFORMATION

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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 H ₂ SO ₄	Edmonton
Ammonia, Total in Water	SM 4500-NH ₃ 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 CO ₂ 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*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Nitritotriacetic Acid in Water	EPA 430.1	Manual Colorimetry (Zinc-Zincon)	Kelowna
Pesticides in Water	EPA 3510C* / EPA 8270D*	Liquid-Liquid DCM Extraction (B/N) / GC-MSD (SIM)	Richmond
pH in Water	SM 4500-H+ B (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-S ₂ D* (2017)	Colorimetry (Methylene Blue)	Edmonton
Total Metals in Water	EPA 200.2* / EPA 6020B	HNO ₃ +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



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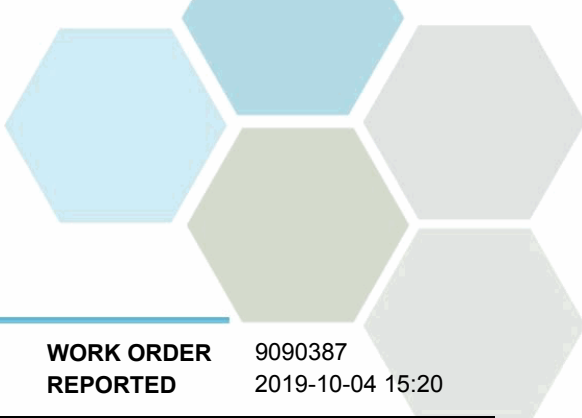
Glossary of Terms:

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 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

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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 with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

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

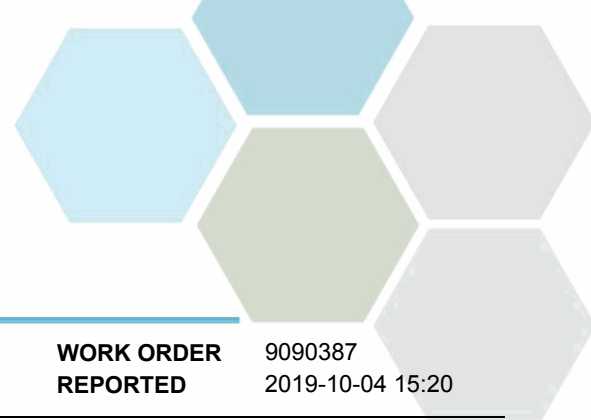
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Acid Herbicides, Batch B911110

Blank (B911110-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 (B911110-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 B910134

Blank (B910134-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 (B910134-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							

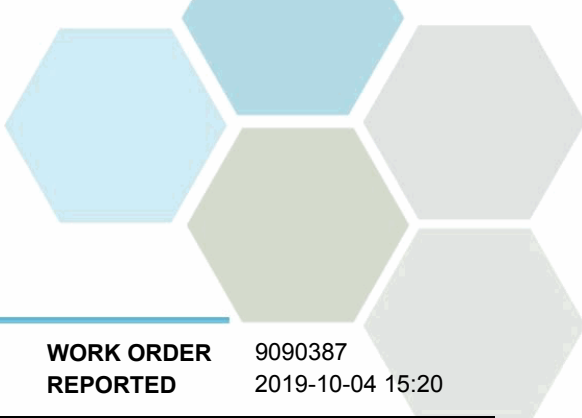


APPENDIX 2: QUALITY CONTROL RESULTS

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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							

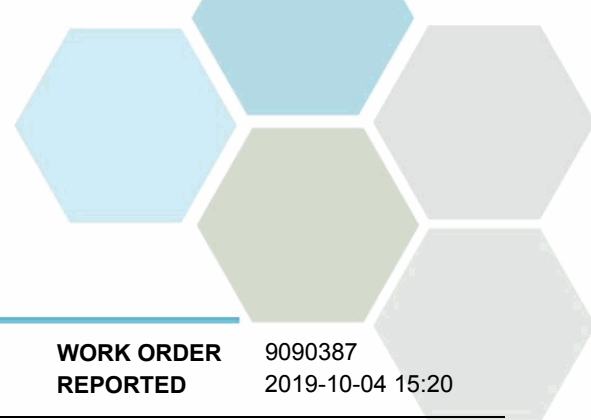


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Carbamates, Batch B91368, Continued									
LCS (B91368-BS1)			Prepared: 2019-09-17, Analyzed: 2019-09-17						
Aldicarb	0.0187	0.0010 mg/L	0.0200		93	80-120			
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 (B91368-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 (B91368-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 B910547									
Blank (B910547-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 (B910547-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			



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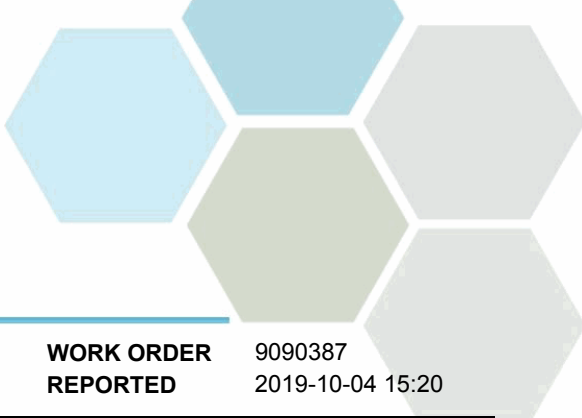
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Chlorinated Phenols, Batch B9I0547, Continued

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			

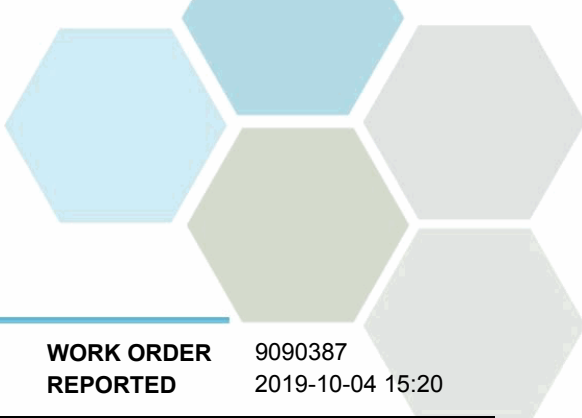


APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Mountainview Regional Water Services Commission
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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			



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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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						
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
LCS (B9I0637-BS1)			Prepared: 2019-09-09, Analyzed: 2019-09-09						
Nitritotriacetic Acid	0.90	0.20 mg/L	1.00		90	80-120			
LCS Dup (B9I0637-BSD1)			Prepared: 2019-09-09, Analyzed: 2019-09-09						
Nitritotriacetic 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

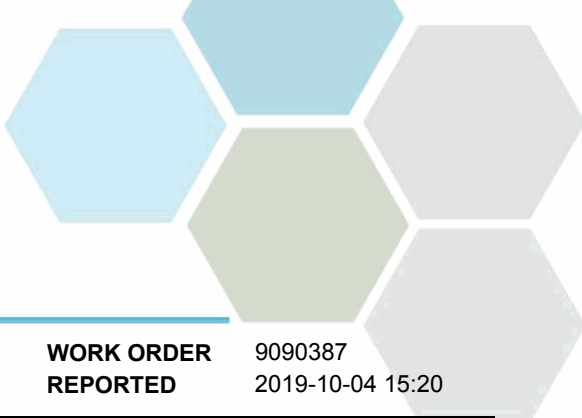
Blank (B9I0924-BLK1)			Prepared: 2019-09-12, Analyzed: 2019-09-12						
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B9I0924-BS1)			Prepared: 2019-09-12, Analyzed: 2019-09-12						
Conductivity (EC)	993	2.0 µS/cm	1000		99	95-105			

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							

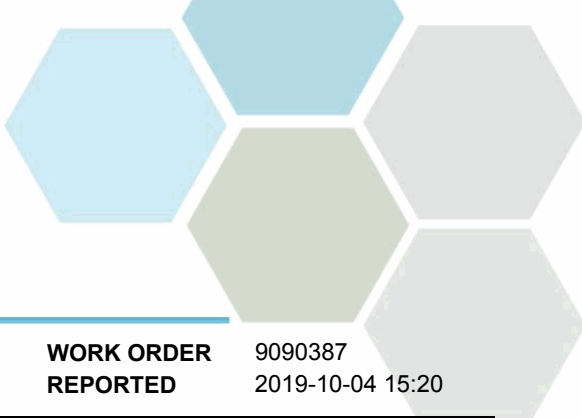


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Haloacetic Acids, Batch B910780, Continued									
Blank (B910780-BLK1), Continued					Prepared: 2019-09-11, Analyzed: 2019-09-14				
Dichloroacetic Acid	< 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 (B910780-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 (B910780-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 B910587									
Blank (B910587-BLK1)					Prepared: 2019-09-09, Analyzed: 2019-09-09				
Diquat	< 0.0100	0.0100 mg/L							
Paraquat	< 0.0050	0.0050 mg/L							
LCS (B910587-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 (B910587-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 B911278									
Blank (B911278-BLK1)					Prepared: 2019-09-16, Analyzed: 2019-09-16				
Glyphosate	< 0.050	0.050 mg/L							
LCS (B911278-BS1)					Prepared: 2019-09-16, Analyzed: 2019-09-16				
Glyphosate	0.210	0.050 mg/L	0.250		84	70-130			
LCS Dup (B911278-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 B910594									
Blank (B910594-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							



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Pesticides, Herbicides, and Fungicides, Batch B910594, Continued

Blank (B910594-BLK1), Continued

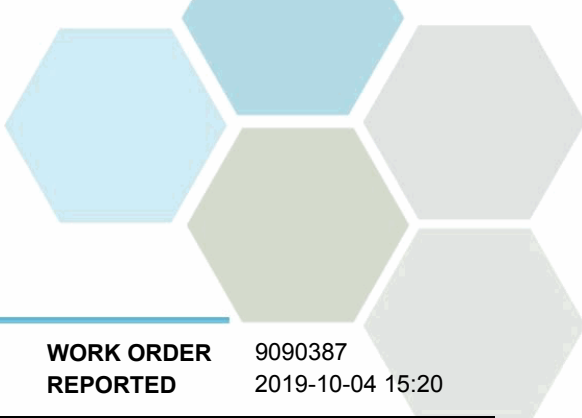
Prepared: 2019-09-09, Analyzed: 2019-09-17

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 (B910594-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			



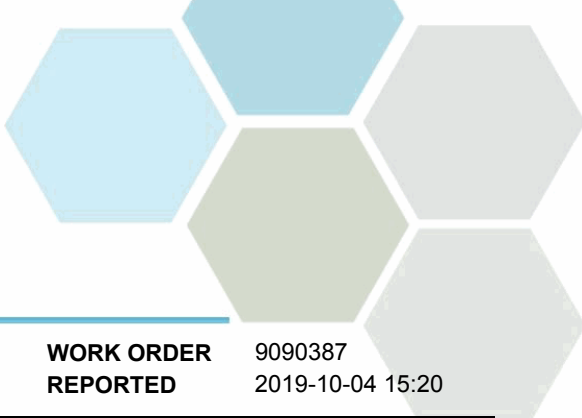
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B910594, Continued									
LCS (B910594-BS1), Continued					Prepared: 2019-09-09, Analyzed: 2019-09-13				
beta-BHC	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 (B910594-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	



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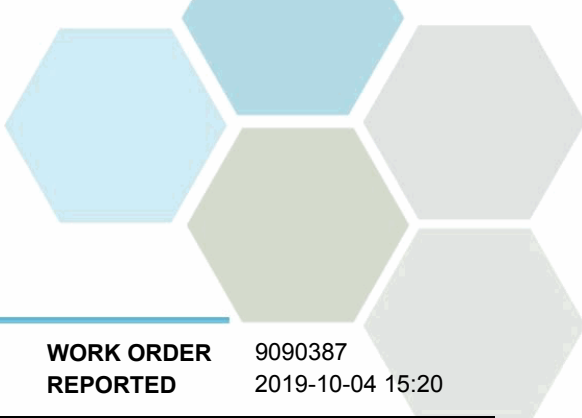
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B910594, Continued									
LCS Dup (B910594-BSD1), Continued					Prepared: 2019-09-09, Analyzed: 2019-09-13				
alpha-BHC	0.692	0.010 µg/L	1.01		68	54-134	13	30	
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 B910422

Blank (B910422-BLK1)

Prepared: 2019-09-06, Analyzed: 2019-09-09

Acenaphthene	< 0.050	0.050 µg/L
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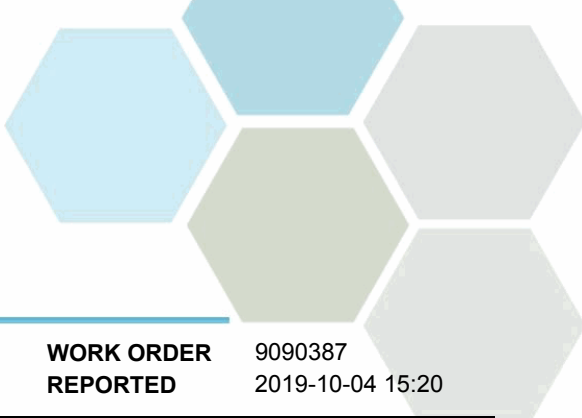


APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B910422, Continued									
Blank (B910422-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							
Benzo(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 (B910422-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			
Benzo(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 (B910422-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	
Benzo(a)anthracene	3.14	0.010 µg/L	4.44		71	57-140	29	25	RPD



APPENDIX 2: QUALITY CONTROL RESULTS

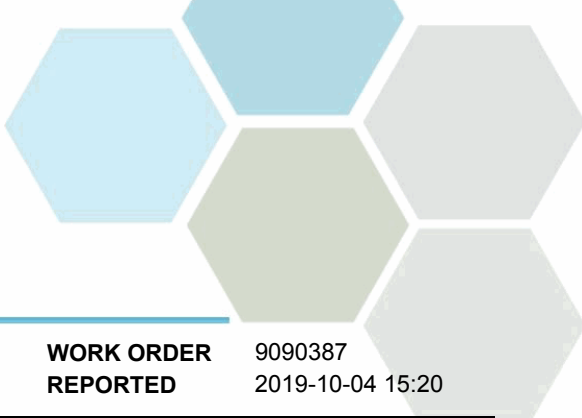
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B9I0422, Continued									
LCS Dup (B9I0422-BSD1), Continued					Prepared: 2019-09-06, Analyzed: 2019-09-09				
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			

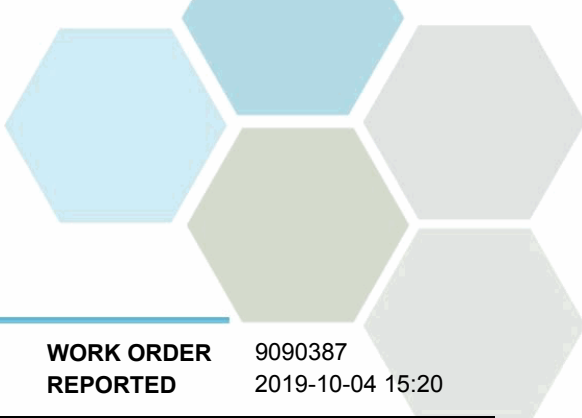


APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B910442, Continued									
Blank (B910442-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 (B910442-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 (B910442-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			



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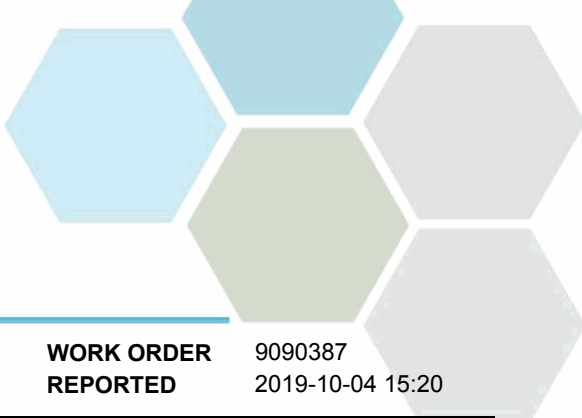
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B9I0442, Continued									
Reference (B9I0442-SRM1), Continued					Prepared: 2019-09-06, Analyzed: 2019-09-08				
Copper, total	0.402	0.00040 mg/L	0.408		99	90-115			
Iron, total	0.599	0.010 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							

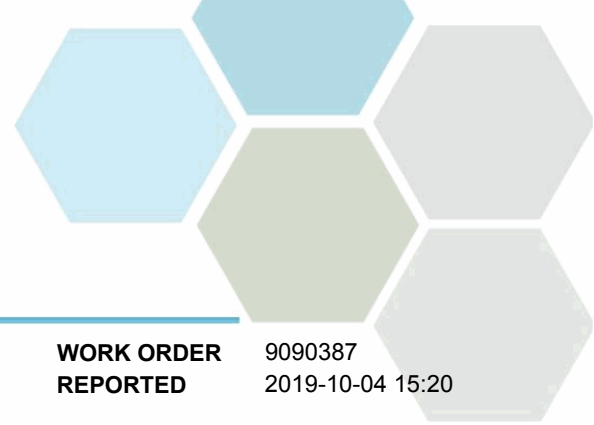


APPENDIX 2: QUALITY CONTROL RESULTS

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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



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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.