



CERTIFICATE OF ANALYSIS

REPORTED TO	Mountainview Regional Water Services Commission 35566 Rge Rd 10 Red Deer County, AB T4G 0H5	WORK ORDER	0090036
ATTENTION	Wesley Olstad	RECEIVED / TEMP REPORTED	2020-09-01 09:30 / 18°C 2020-09-22 15:42
PO NUMBER		COC NUMBER	No Number
PROJECT	Schedule 4 - Code of Practice		
PROJECT INFO			

Introduction:

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

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



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

Ahead of the Curve



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

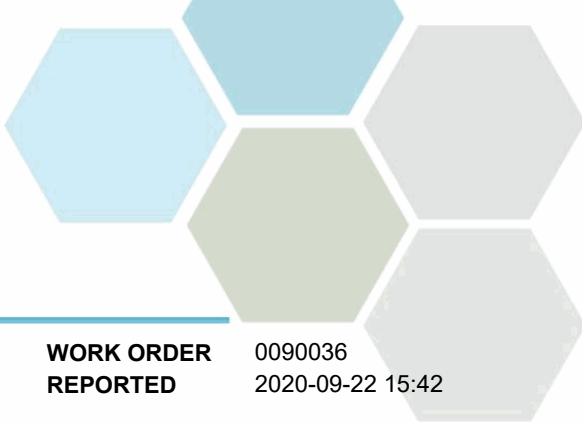
If you have any questions or concerns, please contact me at sgulenchyn@caro.ca

Authorized By:

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TEST RESULTS

REPORTED TO PROJECT Mountainview Regional Water Services Commission
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WORK ORDER REPORTED 0090036
2020-09-22 15:42

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Treated (0090036-01) | Matrix: Water | Sampled: 2020-08-31

Acid Herbicides

2,4,5-T	< 0.10	N/A	0.10	µg/L	2020-09-14	
2,4-D	< 0.10	MAC = 100	0.10	µg/L	2020-09-14	
Dicamba	< 0.10	MAC = 120	0.10	µg/L	2020-09-14	
Dinoseb	< 0.10	N/A	0.10	µg/L	2020-09-14	
MCPA	< 0.20	MAC = 100	0.20	µg/L	2020-09-14	
Picloram	< 0.10	MAC = 190	0.10	µg/L	2020-09-14	
Surrogate: 2,4-DCAA	135		60-126	%	2020-09-14	S09

Anions

Bromate	< 0.010	MAC = 0.01	0.010	mg/L	2020-09-02	
Chloride	7.58	AO ≤ 250	0.50	mg/L	2020-09-03	
Fluoride	0.11	MAC = 1.5	0.10	mg/L	2020-09-03	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	2020-09-03	
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2020-09-03	
Sulfate	31.4	AO ≤ 500	1.0	mg/L	2020-09-03	

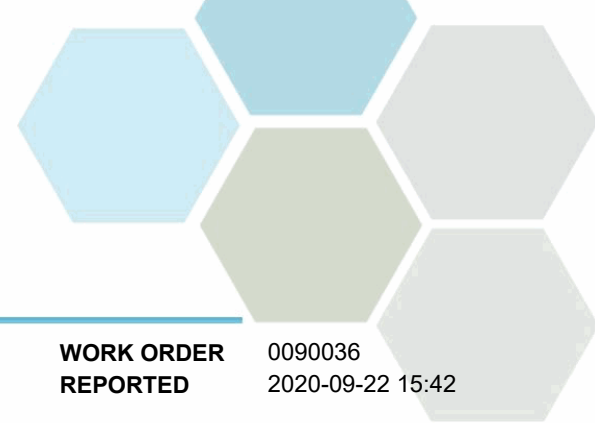
Calculated Parameters

Chloramines	0.350	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	0.140	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO3)	209	None Required	0.541	mg/L	N/A	
Solids, Total Dissolved	224	AO ≤ 500	3.35	mg/L	N/A	

Chlorinated Phenols

2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2020-09-10	
3 & 4-Chlorophenol	< 0.10	N/A	0.10	µg/L	2020-09-10	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2020-09-10	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2020-09-10	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20	µg/L	2020-09-10	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2020-09-10	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2020-09-10	
3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2020-09-10	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2020-09-10	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2020-09-10	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2020-09-10	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2020-09-10	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2020-09-10	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2020-09-10	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2020-09-10	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50	µg/L	2020-09-10	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2020-09-10	
Surrogate: 2,4-Dibromophenol	71		60-130	%	2020-09-10	
Surrogate: 2,4,6-Tribromophenol	70		60-130	%	2020-09-10	

General Parameters



TEST RESULTS

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Treated (0090036-01) Matrix: Water Sampled: 2020-08-31, Continued					
<i>General Parameters, Continued</i>					
Alkalinity, Total (as CaCO3)	170	N/A	2.0 mg/L	2020-09-03	
Bicarbonate (HCO3)	208	N/A	2.0 mg/L	2020-09-03	
Carbonate (CO3)	< 2.0	N/A	2.0 mg/L	2020-09-03	
Hydroxide (OH)	< 2.0	N/A	2.0 mg/L	2020-09-03	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2020-09-04	
Carbon, Total Organic	2.98	N/A	0.50 mg/L	2020-09-03	
Chlorine, Total	1.27	None Required	0.02 mg/L	2020-09-02	HT2
Chlorine, Free	0.92	N/A	0.02 mg/L	2020-09-02	HT2
Colour, True	< 5.0	AO ≤ 15	5.0 CU	2020-09-02	
Conductivity (EC)	351	N/A	2.0 µS/cm	2020-09-03	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2020-09-03	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20 mg/L	2020-09-04	
pH	7.39	7.0-10.5	0.10 pH units	2020-09-03	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020 mg/L	2020-09-01	
Turbidity	< 0.10	OG < 1	0.10 NTU	2020-09-01	

Microbiological Parameters

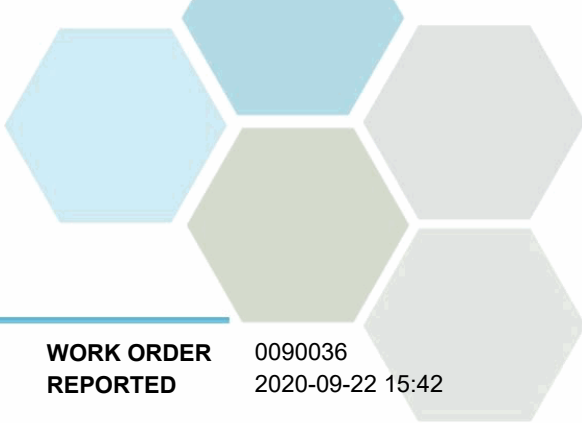
Microcystin, total	< 0.14	MAC = 1.5	0.14 µg/L	2020-09-10	
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Miscellaneous Herbicides

Glyphosate	< 0.200	MAC = 0.28	0.050 mg/L	2020-09-11	CST2
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Pesticides, Herbicides, and Fungicides

Alachlor	< 0.100	N/A	0.100 µg/L	2020-09-14	
Aldrin	< 0.006	N/A	0.006 µg/L	2020-09-14	
Atrazine and metabolites	< 0.100	MAC = 5	0.100 µg/L	2020-09-14	
Azinphos-methyl	< 0.200	MAC = 20	0.200 µg/L	2020-09-14	
alpha-BHC	< 0.010	N/A	0.010 µg/L	2020-09-14	
beta-BHC	< 0.050	N/A	0.050 µg/L	2020-09-14	
delta-BHC	< 0.050	N/A	0.050 µg/L	2020-09-14	
gamma-BHC (Lindane)	< 0.050	N/A	0.050 µg/L	2020-09-14	
Bromacil	< 0.100	N/A	0.100 µg/L	2020-09-14	
Bromoxynil	< 0.200	MAC = 5	0.200 µg/L	2020-09-14	
Butachlor	< 0.020	N/A	0.020 µg/L	2020-09-14	
Captan	< 0.100	N/A	0.100 µg/L	2020-09-14	
Chlordane (cis + trans)	< 0.050	N/A	0.050 µg/L	2020-09-14	
Chlorothalonil	< 0.050	N/A	0.050 µg/L	2020-09-14	
Chlorpyrifos	< 0.010	MAC = 90	0.010 µg/L	2020-09-14	
Cyanazine	< 0.100	N/A	0.100 µg/L	2020-09-14	
DDT, Total	< 0.010	N/A	0.010 µg/L	2020-09-14	
Deltamethrin	< 0.100	N/A	0.100 µg/L	2020-09-14	
Diazinon	< 0.020	MAC = 20	0.020 µg/L	2020-09-14	
Dichlorvos	< 0.100	N/A	0.100 µg/L	2020-09-14	
Diclofop-methyl	< 0.100	MAC = 9	0.100 µg/L	2020-09-14	



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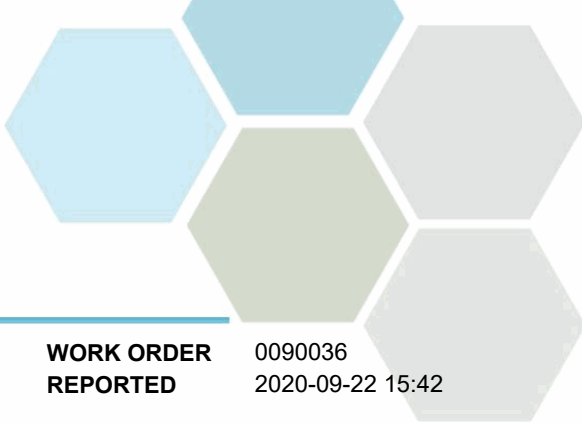
Treated (0090036-01) | Matrix: Water | Sampled: 2020-08-31, Continued

Pesticides, Herbicides, and Fungicides, Continued

Dieldrin	< 0.010	N/A	0.010	µg/L	2020-09-14	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2020-09-14	
Disulfoton	< 0.100	N/A	0.100	µg/L	2020-09-14	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2020-09-14	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2020-09-14	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2020-09-14	
Endrin	< 0.020	N/A	0.020	µg/L	2020-09-14	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2020-09-14	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2020-09-14	
Fenchlorphos (Ronnell)	< 0.100	N/A	0.100	µg/L	2020-09-14	
Heptachlor	< 0.010	N/A	0.010	µg/L	2020-09-14	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2020-09-14	
Linuron	< 0.050	N/A	0.050	µg/L	2020-09-14	
Malathion	< 0.100	MAC = 190	0.100	µg/L	2020-09-14	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2020-09-14	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2020-09-14	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2020-09-14	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2020-09-14	
Parathion	< 0.100	N/A	0.100	µg/L	2020-09-14	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2020-09-14	
Permethrin	< 0.010	N/A	0.010	µg/L	2020-09-14	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2020-09-14	
Prometon	< 0.300	N/A	0.300	µg/L	2020-09-14	
Prometryne	< 0.100	N/A	0.100	µg/L	2020-09-14	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2020-09-14	
Sulfotep	< 0.100	N/A	0.100	µg/L	2020-09-14	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2020-09-14	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2020-09-14	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2020-09-14	
Triallate	< 0.100	N/A	0.100	µg/L	2020-09-14	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2020-09-14	
Surrogate: Tributyl Phosphate	90		50-140	%	2020-09-14	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	74		50-140	%	2020-09-14	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	N/A	0.050	µg/L	2020-09-09	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2020-09-09	
Acridine	< 0.050	N/A	0.050	µg/L	2020-09-09	
Anthracene	< 0.010	N/A	0.010	µg/L	2020-09-09	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2020-09-09	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2020-09-09	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2020-09-09	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2020-09-09	



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Treated (0090036-01) | Matrix: Water | Sampled: 2020-08-31, Continued

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2020-09-09	
2-Chloronaphthalene	< 0.100	N/A	0.100	µg/L	2020-09-09	
Chrysene	< 0.050	N/A	0.050	µg/L	2020-09-09	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2020-09-09	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2020-09-09	
Fluorene	< 0.050	N/A	0.050	µg/L	2020-09-09	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2020-09-09	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2020-09-09	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2020-09-09	
Naphthalene	< 0.200	N/A	0.200	µg/L	2020-09-09	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2020-09-09	
Pyrene	< 0.020	N/A	0.020	µg/L	2020-09-09	
Quinoline	< 0.050	N/A	0.050	µg/L	2020-09-09	
Surrogate: Acridine-d9	102		50-140	%	2020-09-09	
Surrogate: Naphthalene-d8	85		50-140	%	2020-09-09	
Surrogate: Perylene-d12	72		50-140	%	2020-09-09	

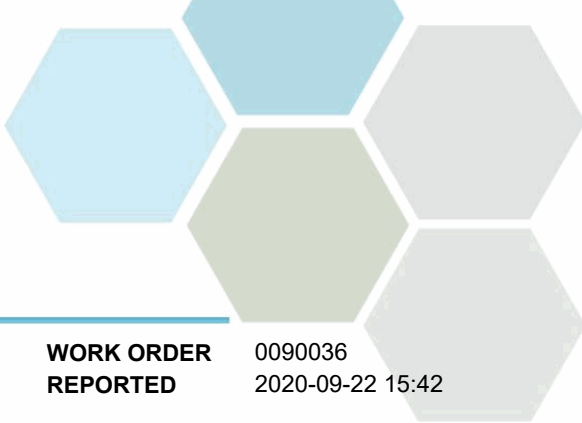
Total Metals

Aluminum, total	0.0472	OG < 0.1	0.0050	mg/L	2020-09-09	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2020-09-09	
Arsenic, total	0.00071	MAC = 0.01	0.00050	mg/L	2020-09-09	
Barium, total	0.125	MAC = 2	0.0050	mg/L	2020-09-09	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2020-09-09	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2020-09-09	
Calcium, total	53.0	None Required	0.20	mg/L	2020-09-09	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2020-09-09	
Copper, total	0.00085	MAC = 2	0.00040	mg/L	2020-09-09	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2020-09-09	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2020-09-09	
Magnesium, total	18.7	None Required	0.010	mg/L	2020-09-09	
Manganese, total	0.00110	MAC = 0.12	0.00020	mg/L	2020-09-09	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2020-09-03	
Potassium, total	1.51	N/A	0.10	mg/L	2020-09-09	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2020-09-09	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2020-09-09	
Sodium, total	7.52	AO ≤ 200	0.10	mg/L	2020-09-09	
Strontium, total	0.362	7	0.0010	mg/L	2020-09-09	
Uranium, total	0.000232	MAC = 0.02	0.000020	mg/L	2020-09-09	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2020-09-09	

Volatile Organic Compounds (VOC)

S03

Benzene	< 0.5	MAC = 5	0.5	µg/L	2020-09-08	
Bromodichloromethane	6.8	N/A	1.0	µg/L	2020-09-08	
Bromoform	7.5	N/A	1.0	µg/L	2020-09-08	



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Volatile Organic Compounds (VOC), Continued						S03
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2020-09-08	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2020-09-08	
Chloroethane	< 2.0	N/A	2.0	µg/L	2020-09-08	
Chloroform	123	N/A	1.0	µg/L	2020-09-08	RA10
Dibromochloromethane	2.8	N/A	1.0	µg/L	2020-09-08	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2020-09-08	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2020-09-08	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5	µg/L	2020-09-08	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2020-09-08	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2020-09-08	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2020-09-08	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2020-09-08	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0	µg/L	2020-09-08	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2020-09-08	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2020-09-08	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2020-09-08	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2020-09-08	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2020-09-08	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2020-09-08	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2020-09-08	
Styrene	< 1.0	N/A	1.0	µg/L	2020-09-08	
1,1,1,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2020-09-08	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2020-09-08	
Toluene	< 1.0	AO ≤ 24	1.0	µg/L	2020-09-08	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2020-09-08	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2020-09-08	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2020-09-08	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2020-09-08	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2020-09-08	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2020-09-08	
Surrogate: Toluene-d8	16		70-130	%	2020-09-08	
Surrogate: 4-Bromofluorobenzene	99		70-130	%	2020-09-08	
Surrogate: 1,4-Dichlorobenzene-d4	82		70-130	%	2020-09-08	

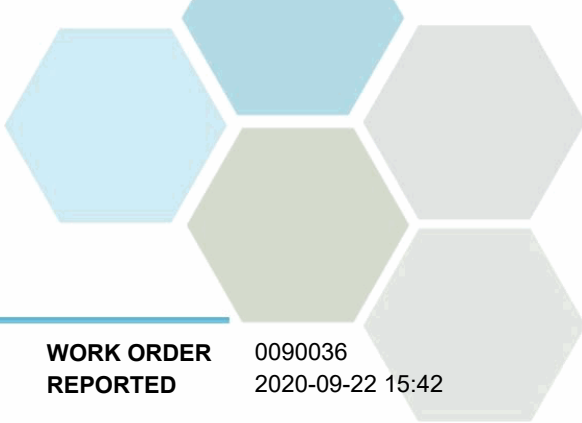
MPR- Influent (0090036-02) | Matrix: Water | Sampled: 2020-08-31

Calculated Parameters

Total Trihalomethanes	0.0698	MAC = 0.1	0.00400	mg/L	N/A
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Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0023	N/A	0.0010	mg/L	2020-09-04
Bromoform	< 0.0010	N/A	0.0010	mg/L	2020-09-04
Chloroform	0.0675	N/A	0.0010	mg/L	2020-09-04



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<i>Volatile Organic Compounds (VOC), Continued</i>						
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2020-09-04	
Surrogate: Toluene-d8	85		70-130	%	2020-09-04	
Surrogate: 4-Bromofluorobenzene	95		70-130	%	2020-09-04	

MPR- Effluent (0090036-03) | Matrix: Water | Sampled: 2020-08-31

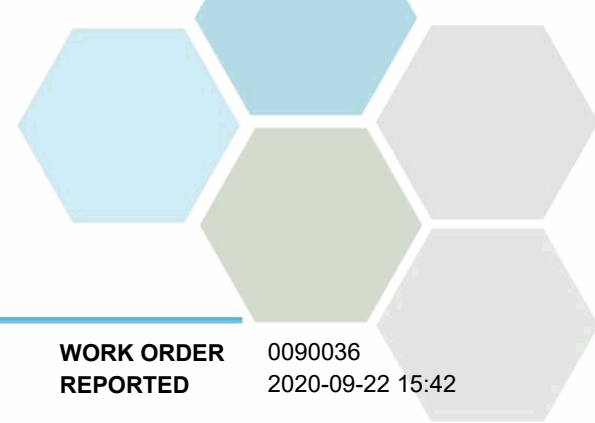
<i>Calculated Parameters</i>						
Total Trihalomethanes	0.0881	MAC = 0.1	0.00400	mg/L	N/A	
<i>Volatile Organic Compounds (VOC)</i>						
Bromodichloromethane	0.0029	N/A	0.0010	mg/L	2020-09-04	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2020-09-04	
Chloroform	0.0852	N/A	0.0010	mg/L	2020-09-04	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2020-09-04	
Surrogate: Toluene-d8	85		70-130	%	2020-09-04	
Surrogate: 4-Bromofluorobenzene	95		70-130	%	2020-09-04	

Plant (0090036-04) | Matrix: Water | Sampled: 2020-08-31

<i>Calculated Parameters</i>						
Total Trihalomethanes	0.0470	MAC = 0.1	0.00400	mg/L	N/A	
<i>Volatile Organic Compounds (VOC)</i>						
Bromodichloromethane	0.0016	N/A	0.0010	mg/L	2020-09-04	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2020-09-04	
Chloroform	0.0454	N/A	0.0010	mg/L	2020-09-04	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2020-09-04	
Surrogate: Toluene-d8	84		70-130	%	2020-09-04	
Surrogate: 4-Bromofluorobenzene	94		70-130	%	2020-09-04	

Sample Qualifiers:

- CST2 The reported detection limit for this analyte has been raised.
- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
- RA10 This is an estimated value. The result was over the calibration range and further dilution was not performed at this time.
- S03 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- S09 The surrogate recovery for this sample is outside of established control limits Data accepted based on results of other QC in batch



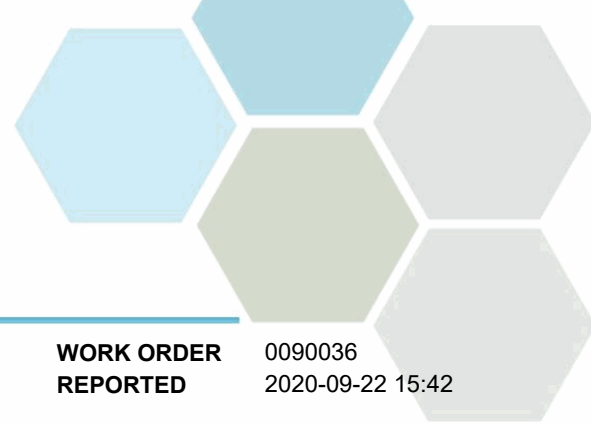
APPENDIX 1: SUPPORTING INFORMATION

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Analysis Description	Method Ref.	Technique	Accredited	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
Carbon, Total Organic in Water	SM 5310 B (2017)	Combustion, Infrared CO2 Detection	✓	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2017)	Colorimetry (DPD)		Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2017)	Colorimetry (DPD)		Edmonton
Colour, True in Water	SM 2120 C (2017)	Spectrophotometry (456 nm)		Edmonton
Conductivity in Water	SM 2510 B (2017)	Conductivity Meter	✓	Edmonton
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Cyanobacterial Toxins in Water	EPA 546*	Adda Enzyme-Linked Immunosorbent Assay (ELISA)		Sublet
Glyphosate in Water	EPA 547*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	✓	Richmond
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
Nitilotriacetic 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 Spectrometry (ICP-MS)	✓	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	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:

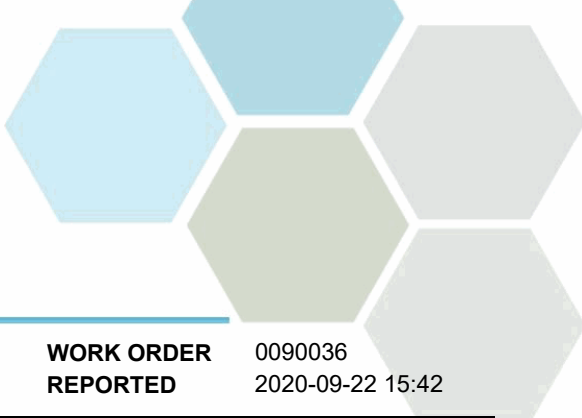
RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams 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

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



APPENDIX 2: QUALITY CONTROL RESULTS

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

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with 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.

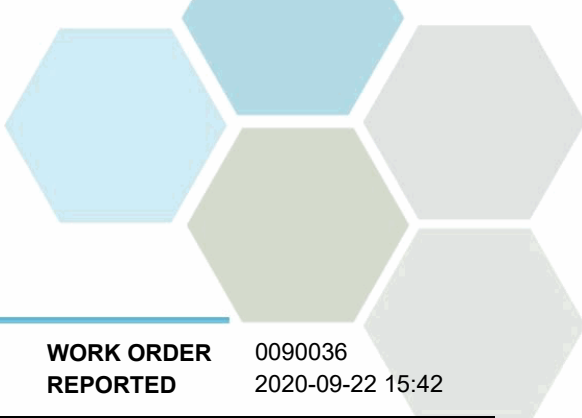
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Acid Herbicides, Batch B010810

Blank (B010810-BLK1) Prepared: 2020-09-10, Analyzed: 2020-09-14									
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	1.36	µg/L	1.01		135	60-126			S09
LCS (B010810-BS1) Prepared: 2020-09-10, Analyzed: 2020-09-14									
2,4,5-T	0.67	0.10 µg/L	0.992		68	75-110			SPK
2,4-D	1.34	0.10 µg/L	0.992		135	71-110			SPK
Dicamba	0.89	0.10 µg/L	0.991		90	56-110			
Dinoseb	1.10	0.10 µg/L	1.09		101	52-110			
MCPA	62.1	2.00 µg/L	99.5		62	57-110			
Picloram	0.58	0.10 µg/L	0.991		59	50-110			
Surrogate: 2,4-DCAA	1.46	µg/L	1.01		145	60-126			S09
LCS Dup (B010810-BSD1) Prepared: 2020-09-10, Analyzed: 2020-09-14									
2,4,5-T	0.73	0.10 µg/L	0.992		74	75-110	8	30	SPK
2,4-D	1.41	0.10 µg/L	0.992		142	71-110	5	30	SPK
Dicamba	0.90	0.10 µg/L	0.991		91	56-110	< 1	30	
Dinoseb	1.15	0.10 µg/L	1.09		105	52-110	4	30	
MCPA	66.5	2.00 µg/L	99.5		67	57-110	7	30	
Picloram	0.58	0.10 µg/L	0.991		58	50-110	< 1	30	
Surrogate: 2,4-DCAA	1.39	µg/L	1.01		138	60-126			S09

Anions, Batch B010385

Blank (B010385-BLK1) Prepared: 2020-09-03, Analyzed: 2020-09-03									
Chloride	< 0.50	0.50 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.050	0.050 mg/L							
Nitrite (as N)	< 0.050	0.050 mg/L							
Sulfate	< 1.0	1.0 mg/L							



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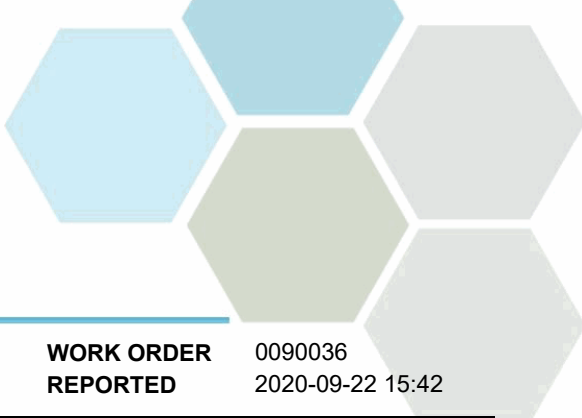
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Anions, Batch B010385, Continued									
LCS (B010385-BS1)					Prepared: 2020-09-03, Analyzed: 2020-09-03				
Chloride	10.1	0.50 mg/L	10.0		101	90-110			
Fluoride	1.02	0.10 mg/L	1.00		102	85-115			
Nitrate (as N)	1.01	0.050 mg/L	1.00		101	92-108			
Nitrite (as N)	0.470	0.050 mg/L	0.500		94	85-115			
Sulfate	51.2	1.0 mg/L	50.0		102	90-110			

Chlorinated Phenols, Batch B010710

Blank (B010710-BLK1)					Prepared: 2020-09-09, Analyzed: 2020-09-10				
2-Chlorophenol	< 0.10	0.10 µg/L							
3 & 4-Chlorophenol	< 0.10	0.10 µg/L							
4-Chloro-3-Methylphenol	< 0.50	0.50 µg/L							
2,3-Dichlorophenol	< 0.20	0.20 µg/L							
2,4 & 2,5-Dichlorophenol	< 0.20	0.20 µg/L							
2,6-Dichlorophenol	< 0.20	0.20 µg/L							
3,4-Dichlorophenol	< 0.20	0.20 µg/L							
3,5-Dichlorophenol	< 0.20	0.20 µg/L							
2,3,4-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,6-Trichlorophenol	< 0.50	0.50 µg/L							
2,4,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,4,6-Trichlorophenol	< 0.50	0.50 µg/L							
3,4,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	0.50 µg/L							
2,3,4,6-Tetrachlorophenol	< 0.50	0.50 µg/L							
Pentachlorophenol	< 0.50	0.50 µg/L							
Surrogate: 2,4-Dibromophenol	1.50	µg/L	2.02		74	60-130			
Surrogate: 2,4,6-Tribromophenol	1.30	µg/L	2.00		65	60-130			

LCS (B010710-BS1)					Prepared: 2020-09-09, Analyzed: 2020-09-09				
2-Chlorophenol	6.99	0.10 µg/L	10.0		70	60-108			
3 & 4-Chlorophenol	18.0	0.10 µg/L	20.1		90	60-120			
4-Chloro-3-Methylphenol	8.37	0.50 µg/L	10.0		83	60-140			
2,3-Dichlorophenol	7.98	0.20 µg/L	10.0		80	60-111			
2,4 & 2,5-Dichlorophenol	16.9	0.20 µg/L	20.2		83	60-116			
2,6-Dichlorophenol	8.57	0.20 µg/L	10.0		86	60-112			
3,4-Dichlorophenol	8.67	0.20 µg/L	10.0		87	60-120			
3,5-Dichlorophenol	11.6	0.20 µg/L	10.0		116	60-121			
2,3,4-Trichlorophenol	8.05	0.50 µg/L	10.0		80	60-122			
2,3,5-Trichlorophenol	8.63	0.50 µg/L	10.0		86	60-126			
2,3,6-Trichlorophenol	9.30	0.50 µg/L	10.0		93	60-130			
2,4,5-Trichlorophenol	8.74	0.50 µg/L	10.0		87	60-118			
2,4,6-Trichlorophenol	8.68	0.50 µg/L	10.0		86	60-120			
3,4,5-Trichlorophenol	9.91	0.50 µg/L	10.0		99	60-129			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	20.8	0.50 µg/L	20.0		104	60-127			
2,3,4,6-Tetrachlorophenol	9.95	0.50 µg/L	10.0		99	60-127			
Pentachlorophenol	10.9	0.50 µg/L	10.0		109	60-130			
Surrogate: 2,4-Dibromophenol	1.64	µg/L	2.02		81	60-130			
Surrogate: 2,4,6-Tribromophenol	1.74	µg/L	2.00		87	60-130			

LCS Dup (B010710-BSD1)					Prepared: 2020-09-09, Analyzed: 2020-09-09				
2-Chlorophenol	6.20	0.10 µg/L	10.0		62	60-108	12	32	
3 & 4-Chlorophenol	17.0	0.10 µg/L	20.1		85	60-120	6	21	
4-Chloro-3-Methylphenol	7.56	0.50 µg/L	10.0		75	60-140	10	30	
2,3-Dichlorophenol	6.95	0.20 µg/L	10.0		69	60-111	14	27	
2,4 & 2,5-Dichlorophenol	15.6	0.20 µg/L	20.2		77	60-116	8	22	



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Chlorinated Phenols, Batch B010710, Continued									
LCS Dup (B010710-BSD1), Continued					Prepared: 2020-09-09, Analyzed: 2020-09-09				
2,6-Dichlorophenol	7.74	0.20 µg/L	10.0		77	60-112	10	27	
3,4-Dichlorophenol	7.83	0.20 µg/L	10.0		78	60-120	10	22	
3,5-Dichlorophenol	11.1	0.20 µg/L	10.0		111	60-121	4	23	
2,3,4-Trichlorophenol	7.59	0.50 µg/L	10.0		76	60-122	6	26	
2,3,5-Trichlorophenol	8.14	0.50 µg/L	10.0		81	60-126	6	24	
2,3,6-Trichlorophenol	8.41	0.50 µg/L	10.0		84	60-130	10	26	
2,4,5-Trichlorophenol	7.83	0.50 µg/L	10.0		78	60-118	11	22	
2,4,6-Trichlorophenol	8.02	0.50 µg/L	10.0		80	60-120	8	26	
3,4,5-Trichlorophenol	9.13	0.50 µg/L	10.0		91	60-129	8	19	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	20.8	0.50 µg/L	20.0		104	60-127	< 1	26	
2,3,4,6-Tetrachlorophenol	10.6	0.50 µg/L	10.0		105	60-127	6	23	
Pentachlorophenol	10.7	0.50 µg/L	10.0		107	60-130	2	17	
Surrogate: 2,4-Dibromophenol	1.48	µg/L	2.02		73	60-130			
Surrogate: 2,4,6-Tribromophenol	1.66	µg/L	2.00		83	60-130			

General Parameters, Batch B010057

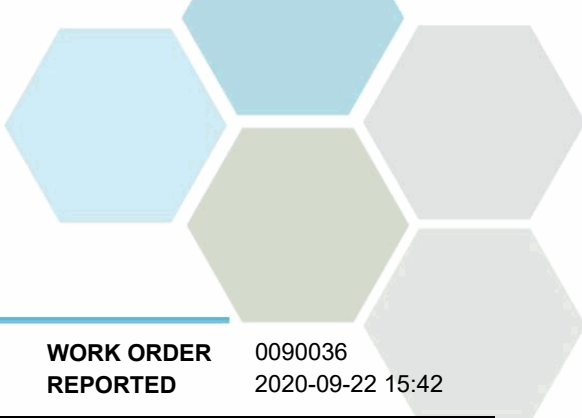
Blank (B010057-BLK1)					Prepared: 2020-09-03, Analyzed: 2020-09-03				
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B010057-BLK2)					Prepared: 2020-09-03, Analyzed: 2020-09-03				
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B010057-BLK3)					Prepared: 2020-09-03, Analyzed: 2020-09-03				
Carbon, Total Organic	< 0.50	0.50 mg/L							
LCS (B010057-BS1)					Prepared: 2020-09-03, Analyzed: 2020-09-03				
Carbon, Total Organic	10.3	0.50 mg/L	10.0		103	78-116			
LCS (B010057-BS2)					Prepared: 2020-09-03, Analyzed: 2020-09-03				
Carbon, Total Organic	10.7	0.50 mg/L	10.0		107	78-116			
LCS (B010057-BS3)					Prepared: 2020-09-03, Analyzed: 2020-09-03				
Carbon, Total Organic	10.4	0.50 mg/L	10.0		104	78-116			
LCS (B010057-BS4)					Prepared: 2020-09-03, Analyzed: 2020-09-03				
Carbon, Total Organic	10.7	0.50 mg/L	10.0		107	78-116			

General Parameters, Batch B010070

Blank (B010070-BLK1)					Prepared: 2020-09-01, Analyzed: 2020-09-01				
Turbidity	< 0.10	0.10 NTU							
LCS (B010070-BS1)					Prepared: 2020-09-01, Analyzed: 2020-09-01				
Turbidity	38.2	0.10 NTU	40.0		96	90-110			
Duplicate (B010070-DUP1)					Prepared: 2020-09-01, Analyzed: 2020-09-01				
Turbidity	< 0.10	0.10 NTU		< 0.10				10	

General Parameters, Batch B010081

Blank (B010081-BLK1)					Prepared: 2020-09-01, Analyzed: 2020-09-01				
Sulfide, Total	< 0.020	0.020 mg/L							
LCS (B010081-BS1)					Prepared: 2020-09-01, Analyzed: 2020-09-01				
Sulfide, Total	0.571	0.020 mg/L	0.580		98	80-120			

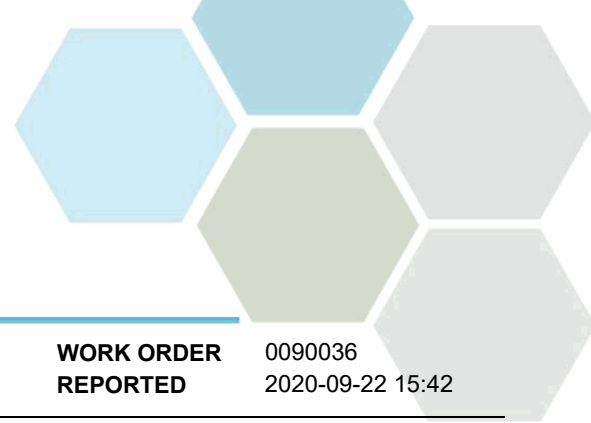


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B0I0081, Continued									
Matrix Spike (B0I0081-MS1)		Source: 0090036-01		Prepared: 2020-09-01, Analyzed: 2020-09-01					
Sulfide, Total	0.392	0.020 mg/L	0.380	< 0.020	103	70-130			
General Parameters, Batch B0I0181									
Blank (B0I0181-BLK1)		Prepared: 2020-09-02, Analyzed: 2020-09-02							
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							
Reference (B0I0181-SRM1)		Prepared: 2020-09-02, Analyzed: 2020-09-02							
Chlorine, Total	1.56	0.02 mg/L	1.59		98	91.2-108.8			
Chlorine, Free	1.56	0.02 mg/L	1.59		98	91.2-108.8			
General Parameters, Batch B0I0182									
Blank (B0I0182-BLK1)		Prepared: 2020-09-02, Analyzed: 2020-09-02							
Colour, True	< 5.0	5.0 CU							
LCS (B0I0182-BS1)		Prepared: 2020-09-02, Analyzed: 2020-09-02							
Colour, True	20	5.0 CU	20.0		100	90-109			
General Parameters, Batch B0I0281									
Blank (B0I0281-BLK1)		Prepared: 2020-09-03, Analyzed: 2020-09-03							
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B0I0281-BS1)		Prepared: 2020-09-03, Analyzed: 2020-09-03							
Cyanide, Total	0.0184	0.0020 mg/L	0.0200		92	82-120			
LCS Dup (B0I0281-BSD1)		Prepared: 2020-09-03, Analyzed: 2020-09-03							
Cyanide, Total	0.0181	0.0020 mg/L	0.0200		91	82-120	2	10	
General Parameters, Batch B0I0288									
Blank (B0I0288-BLK1)		Prepared: 2020-09-03, Analyzed: 2020-09-03							
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B0I0288-BS1)		Prepared: 2020-09-03, Analyzed: 2020-09-03							
Conductivity (EC)	1000	2.0 µS/cm	1000		100	95-105			
General Parameters, Batch B0I0328									
Blank (B0I0328-BLK1)		Prepared: 2020-09-03, Analyzed: 2020-09-03							
Alkalinity, Total (as CaCO ₃)	< 2.0	2.0 mg/L							
Bicarbonate (HCO ₃)	2.2	2.0 mg/L							BLK
Carbonate (CO ₃)	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							
LCS (B0I0328-BS1)		Prepared: 2020-09-03, Analyzed: 2020-09-03							
Alkalinity, Total (as CaCO ₃)	251	2.0 mg/L	250		100	94-108			
Duplicate (B0I0328-DUP1)		Source: 0090036-01		Prepared: 2020-09-03, Analyzed: 2020-09-03					
Alkalinity, Total (as CaCO ₃)	170	2.0 mg/L		170			< 1	7	
Bicarbonate (HCO ₃)	207	2.0 mg/L		208			< 1	7	
Carbonate (CO ₃)	< 2.0	2.0 mg/L		< 2.0				7	
Hydroxide (OH)	< 2.0	2.0 mg/L		< 2.0				7	



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Mountainview Regional Water Services Commission
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WORK ORDER REPORTED 0090036
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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 B0I0330

Duplicate (B0I0330-DUP1)		Source: 0090036-01		Prepared: 2020-09-03, Analyzed: 2020-09-03					
pH	7.35	0.10	pH units	7.39			< 1	1.5	
Reference (B0I0330-SRM1)				Prepared: 2020-09-03, Analyzed: 2020-09-03					
pH	7.02	0.10	pH units	7.00	100	98-102			

General Parameters, Batch B0I0403

Blank (B0I0403-BLK1)				Prepared: 2020-09-04, Analyzed: 2020-09-04					
Nitritotriacetic Acid	< 0.20	0.20	mg/L						
LCS (B0I0403-BS1)				Prepared: 2020-09-04, Analyzed: 2020-09-04					
Nitritotriacetic Acid	0.94	0.20	mg/L	1.00	94	80-120			
LCS Dup (B0I0403-BSD1)				Prepared: 2020-09-04, Analyzed: 2020-09-04					
Nitritotriacetic Acid	1.02	0.20	mg/L	1.00	102	80-120	8	20	
Matrix Spike (B0I0403-MS1)		Source: 0090036-01		Prepared: 2020-09-04, Analyzed: 2020-09-04					
Nitritotriacetic Acid	2.09	0.20	mg/L	2.04	< 0.20	102	70-130		

General Parameters, Batch B0I0415

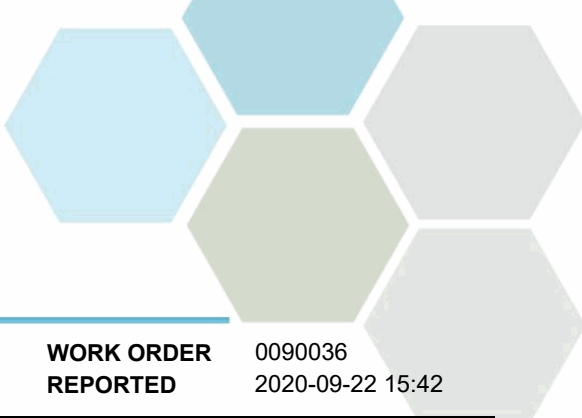
Blank (B0I0415-BLK1)				Prepared: 2020-09-04, Analyzed: 2020-09-04					
Ammonia, Total (as N)	< 0.050	0.050	mg/L						
LCS (B0I0415-BS1)				Prepared: 2020-09-04, Analyzed: 2020-09-04					
Ammonia, Total (as N)	0.203	0.050	mg/L	0.200	101	85-115			

Miscellaneous Herbicides, Batch B0I0712

Blank (B0I0712-BLK1)				Prepared: 2020-09-22, Analyzed: 2020-09-11					
Glyphosate	< 0.050	0.050	mg/L						
LCS (B0I0712-BS1)				Prepared: 2020-09-22, Analyzed: 2020-09-11					
Glyphosate	0.166	0.050	mg/L	0.250	66	70-130			SPK1
LCS Dup (B0I0712-BSD1)				Prepared: 2020-09-22, Analyzed: 2020-09-11					
Glyphosate	0.156	0.050	mg/L	0.250	62	70-130	6	20	SPK1

Pesticides, Herbicides, and Fungicides, Batch B0I0397

Blank (B0I0397-BLK1)				Prepared: 2020-09-04, Analyzed: 2020-09-14					
Alachlor	< 0.100	0.100	µg/L						
Aldrin	< 0.006	0.006	µg/L						
Atrazine and metabolites	< 0.100	0.100	µg/L						
Azinphos-methyl	< 0.200	0.200	µg/L						
alpha-BHC	< 0.010	0.010	µg/L						
beta-BHC	< 0.050	0.050	µg/L						
delta-BHC	< 0.050	0.050	µg/L						
gamma-BHC (Lindane)	< 0.050	0.050	µg/L						
Bromacil	< 0.100	0.100	µg/L						
Bromoxynil	< 0.200	0.200	µg/L						
Butachlor	< 0.020	0.020	µg/L						
Captan	< 0.100	0.100	µg/L						
Chlordane (cis + trans)	< 0.050	0.050	µg/L						
Chlorothalonil	< 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 B010397, Continued

Blank (B010397-BLK1), Continued

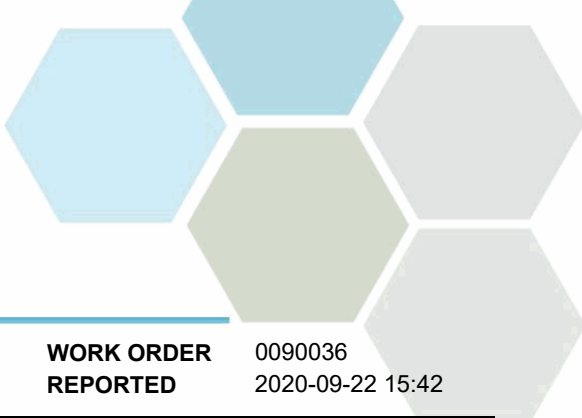
Prepared: 2020-09-04, Analyzed: 2020-09-14

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	0.639	µg/L	1.00		64	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.542	µg/L	1.00		54	50-140			

LCS (B010397-BS1)

Prepared: 2020-09-04, Analyzed: 2020-09-14

Alachlor	0.912	0.100 µg/L	1.00		91	65-118			
Aldrin	0.634	0.006 µg/L	1.00		63	58-107			
Atrazine	0.851	0.100 µg/L	1.00		85	61-122			
Atrazine-desethyl	0.378	0.100 µg/L	1.01		37	50-140			SPK1
Azinphos-methyl	1.25	0.200 µg/L	1.00		125	53-127			
alpha-BHC	0.549	0.010 µg/L	1.01		54	54-134			
beta-BHC	0.836	0.050 µg/L	1.01		83	58-112			
delta-BHC	0.822	0.050 µg/L	1.00		82	58-119			
gamma-BHC (Lindane)	0.588	0.050 µg/L	1.00		59	59-113			
Bromacil	1.12	0.100 µg/L	1.00		112	52-123			
Bromoxynil	0.345	0.200 µg/L	1.02		34	50-132			SPK1
Butachlor	1.10	0.020 µg/L	1.01		109	50-140			
Captan	1.22	0.100 µg/L	0.986		124	63-137			
Chlordane (cis + trans)	1.53	0.050 µg/L	2.01		76	50-140			



APPENDIX 2: QUALITY CONTROL RESULTS

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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 B010397, Continued

LCS (B010397-BS1), Continued

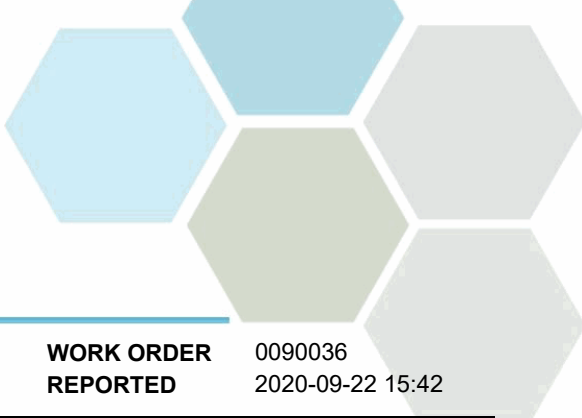
Prepared: 2020-09-04, Analyzed: 2020-09-14

Chlorothalonil	0.787	0.050 µg/L	1.07		74	50-110			
Chlorpyrifos	0.882	0.010 µg/L	1.00		88	61-121			
Cyanazine	1.10	0.100 µg/L	1.00		110	57-126			
DDT, Total	5.82	0.010 µg/L	6.04		96	50-140			
Deltamethrin	11.1	0.100 µg/L	10.2		109	50-121			
Diazinon	0.771	0.020 µg/L	1.00		77	52-126			
Dichlorvos	< 0.100	0.100 µg/L	1.06		4	50-110			SPK1
Diclofop-methyl	0.992	0.100 µg/L	1.10		90	58-112			
Dieldrin	0.902	0.010 µg/L	1.00		90	64-112			
Dimethoate	0.926	0.200 µg/L	0.989		94	50-120			
Disulfoton	0.571	0.100 µg/L	1.01		57	50-122			
Diuron	1.08	0.200 µg/L	1.03		105	54-116			
Endosulfan I + II	1.87	0.010 µg/L	2.01		93	50-140			
Endosulfan sulfate	1.02	0.050 µg/L	1.01		101	64-110			
Endrin	1.14	0.020 µg/L	1.01		113	59-123			
Endrin aldehyde	0.803	0.020 µg/L	1.00		80	58-118			
Endrin ketone	0.781	0.020 µg/L	1.01		77	53-114			
Fenchlorphos (Ronnell)	0.711	0.100 µg/L	1.02		70	63-110			
Heptachlor	0.657	0.010 µg/L	1.01		65	58-128			
Heptachlor epoxide	0.691	0.010 µg/L	1.01		68	64-110			
Linuron	1.27	0.050 µg/L	1.06		120	59-140			
Malathion	1.09	0.100 µg/L	1.00		109	61-121			
Methoxychlor	1.15	0.050 µg/L	1.01		114	53-121			
Methyl parathion	0.975	0.100 µg/L	1.00		97	65-114			
Metolachlor	0.985	0.100 µg/L	1.01		98	65-112			
Metribuzin	0.983	0.200 µg/L	1.00		98	53-123			
Parathion	1.04	0.100 µg/L	0.997		105	53-130			
Pentachloronitrobenzene	0.562	0.100 µg/L	1.00		56	54-136			
Permethrin	1.22	0.010 µg/L	1.01		121	50-130			
Phorate	0.552	0.100 µg/L	1.00		55	55-120			
Prometon	0.787	0.300 µg/L	1.00		79	57-124			
Prometryne	0.891	0.100 µg/L	1.00		89	50-140			
Simazine	0.854	0.200 µg/L	1.00		85	54-119			
Sulfotep	0.638	0.100 µg/L	1.04		61	61-121			
Tebuthiuron	0.984	0.200 µg/L	1.01		97	50-127			
Temephos (Abate)	11.3	0.500 µg/L	10.2		111	67-135			
Terbufos	0.702	0.100 µg/L	0.993		71	51-122			
Triallate	0.672	0.100 µg/L	1.05		64	50-120			
Trifluralin	0.615	0.200 µg/L	1.00		61	52-129			
Surrogate: Tributyl Phosphate	0.876	µg/L	1.00		88	50-140			

LCS Dup (B010397-BSD1)

Prepared: 2020-09-04, Analyzed: 2020-09-14

Alachlor	0.963	0.100 µg/L	1.00		96	65-118	5	30	
Aldrin	0.693	0.006 µg/L	1.00		69	58-107	9	30	
Atrazine	0.917	0.100 µg/L	1.00		92	61-122	8	30	
Atrazine-desethyl	0.405	0.100 µg/L	1.01		40	50-140	7	30	SPK1
Azinphos-methyl	1.54	0.200 µg/L	1.00		154	53-127	21	30	SPK1
alpha-BHC	0.606	0.010 µg/L	1.01		60	54-134	10	30	
beta-BHC	0.878	0.050 µg/L	1.01		87	58-112	5	30	
delta-BHC	0.859	0.050 µg/L	1.00		86	58-119	4	30	
gamma-BHC (Lindane)	0.639	0.050 µg/L	1.00		64	59-113	8	30	
Bromacil	1.13	0.100 µg/L	1.00		113	52-123	1	30	
Bromoxynil	0.335	0.200 µg/L	1.02		33	50-132	3	30	SPK1
Butachlor	1.13	0.020 µg/L	1.01		112	50-140	3	30	
Captan	1.30	0.100 µg/L	0.986		132	63-137	6	30	
Chlordane (cis + trans)	1.57	0.050 µg/L	2.01		78	50-140	3	30	



APPENDIX 2: QUALITY CONTROL RESULTS

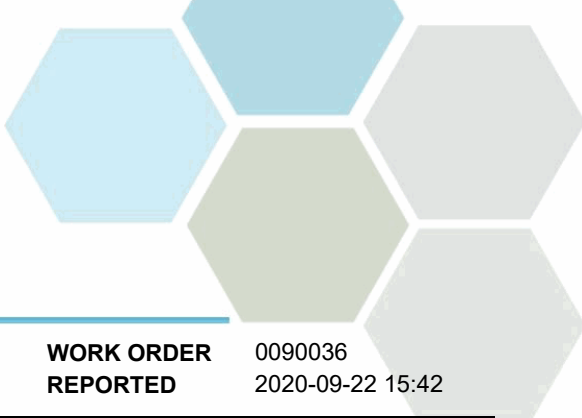
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B010397, Continued									
LCS Dup (B010397-BSD1), Continued					Prepared: 2020-09-04, Analyzed: 2020-09-14				
Chlorothalonil	0.826	0.050 µg/L	1.07		77	50-110	5	30	
Chlorpyrifos	0.917	0.010 µg/L	1.00		92	61-121	4	30	
Cyanazine	1.15	0.100 µg/L	1.00		115	57-126	5	30	
DDT, Total	6.00	0.010 µg/L	6.04		99	50-140	3	30	
Deltamethrin	11.4	0.100 µg/L	10.2		112	50-121	2	30	
Diazinon	0.832	0.020 µg/L	1.00		83	52-126	8	30	
Dichlorvos	< 0.100	0.100 µg/L	1.06		4	50-110	9	30	SPK1
Diclofop-methyl	0.968	0.100 µg/L	1.10		88	58-112	2	30	
Dieldrin	0.929	0.010 µg/L	1.00		93	64-112	3	30	
Dimethoate	0.932	0.200 µg/L	0.989		94	50-120	< 1	30	
Disulfoton	0.650	0.100 µg/L	1.01		64	50-122	13	30	
Diuron	1.14	0.200 µg/L	1.03		110	54-116	5	30	
Endosulfan I + II	1.96	0.010 µg/L	2.01		97	50-140	4	30	
Endosulfan sulfate	1.06	0.050 µg/L	1.01		105	64-110	3	30	
Endrin	1.18	0.020 µg/L	1.01		117	59-123	3	30	
Endrin aldehyde	0.825	0.020 µg/L	1.00		82	58-118	3	30	
Endrin ketone	0.798	0.020 µg/L	1.01		79	53-114	2	30	
Fenchlorphos (Ronnell)	0.745	0.100 µg/L	1.02		73	63-110	5	30	
Heptachlor	0.715	0.010 µg/L	1.01		71	58-128	8	30	
Heptachlor epoxide	0.666	0.010 µg/L	1.01		66	64-110	4	30	
Linuron	1.40	0.050 µg/L	1.06		132	59-140	10	30	
Malathion	1.14	0.100 µg/L	1.00		114	61-121	4	30	
Methoxychlor	1.16	0.050 µg/L	1.01		115	53-121	< 1	30	
Methyl parathion	1.04	0.100 µg/L	1.00		104	65-114	6	30	
Metolachlor	1.04	0.100 µg/L	1.01		103	65-112	6	30	
Metribuzin	1.04	0.200 µg/L	1.00		104	53-123	6	30	
Parathion	1.09	0.100 µg/L	0.997		110	53-130	5	30	
Pentachloronitrobenzene	0.621	0.100 µg/L	1.00		62	54-136	10	30	
Permethrin	1.25	0.010 µg/L	1.01		124	50-130	2	30	
Phorate	0.600	0.100 µg/L	1.00		60	55-120	8	30	
Prometon	0.918	0.300 µg/L	1.00		92	57-124	15	30	
Prometryne	0.970	0.100 µg/L	1.00		97	50-140	9	30	
Simazine	0.882	0.200 µg/L	1.00		88	54-119	3	30	
Sulfotep	0.693	0.100 µg/L	1.04		67	61-121	8	30	
Tebuthiuron	1.02	0.200 µg/L	1.01		101	50-127	3	30	
Temephos (Abate)	11.8	0.500 µg/L	10.2		116	67-135	4	30	
Terbufos	0.759	0.100 µg/L	0.993		76	51-122	8	30	
Triallate	0.725	0.100 µg/L	1.05		69	50-120	8	30	
Trifluralin	0.663	0.200 µg/L	1.00		66	52-129	7	30	
Surrogate: Tributyl Phosphate	0.958	µg/L	1.00		96	50-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B010667

Blank (B010667-BLK1)			Prepared: 2020-09-08, Analyzed: 2020-09-09						
Acenaphthene	< 0.050	0.050 µg/L							
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							

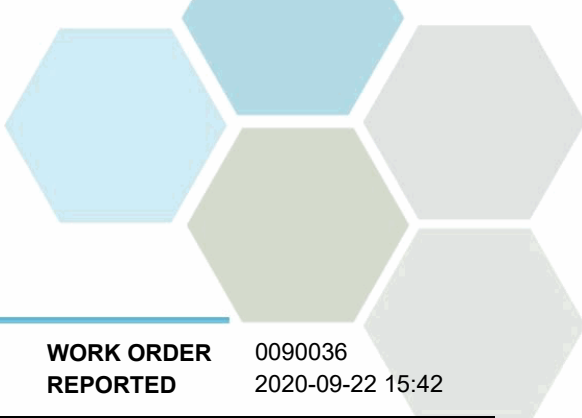


APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B010667, Continued									
Blank (B010667-BLK1), Continued					Prepared: 2020-09-08, Analyzed: 2020-09-09				
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	4.05	µg/L	4.47		91	50-140			
Surrogate: Naphthalene-d8	3.17	µg/L	4.47		71	50-140			
Surrogate: Perylene-d12	3.75	µg/L	4.47		84	50-140			
LCS (B010667-BS1)					Prepared: 2020-09-08, Analyzed: 2020-09-09				
Acenaphthene	3.87	0.050 µg/L	4.44		87	55-137			
Acenaphthylene	4.00	0.200 µg/L	4.44		90	53-140			
Acridine	3.90	0.050 µg/L	4.44		88	50-120			
Anthracene	4.14	0.010 µg/L	4.44		93	64-130			
Benz(a)anthracene	5.20	0.010 µg/L	4.44		117	57-140			
Benzo(a)pyrene	4.88	0.010 µg/L	4.44		110	63-133			
Benzo(b+j)fluoranthene	10.9	0.050 µg/L	8.89		122	60-129			
Benzo(g,h,i)perylene	5.25	0.050 µg/L	4.44		118	52-139			
Benzo(k)fluoranthene	4.88	0.050 µg/L	4.44		110	50-138			
2-Chloronaphthalene	3.60	0.100 µg/L	4.38		82	50-139			
Chrysene	5.26	0.050 µg/L	4.44		118	59-140			
Dibenz(a,h)anthracene	5.12	0.010 µg/L	4.44		115	53-136			
Fluoranthene	4.90	0.030 µg/L	4.44		110	67-135			
Fluorene	3.77	0.050 µg/L	4.44		85	57-134			
Indeno(1,2,3-cd)pyrene	4.94	0.050 µg/L	4.44		111	52-129			
1-Methylnaphthalene	3.56	0.100 µg/L	4.44		80	50-140			
2-Methylnaphthalene	3.61	0.100 µg/L	4.44		81	50-140			
Naphthalene	3.63	0.200 µg/L	4.44		82	50-140			
Phenanthrene	4.32	0.100 µg/L	4.44		97	61-134			
Pyrene	4.93	0.020 µg/L	4.44		111	66-131			
Quinoline	4.84	0.050 µg/L	4.44		109	50-140			
Surrogate: Acridine-d9	3.78	µg/L	4.47		85	50-140			
Surrogate: Naphthalene-d8	3.45	µg/L	4.47		77	50-140			
Surrogate: Perylene-d12	4.10	µg/L	4.47		92	50-140			
LCS Dup (B010667-BSD1)					Prepared: 2020-09-08, Analyzed: 2020-09-09				
Acenaphthene	3.54	0.050 µg/L	4.44		80	55-137	9	18	
Acenaphthylene	3.59	0.200 µg/L	4.44		81	53-140	11	20	
Acridine	3.19	0.050 µg/L	4.44		72	50-120	20	30	
Anthracene	3.61	0.010 µg/L	4.44		81	64-130	14	15	
Benz(a)anthracene	5.01	0.010 µg/L	4.44		113	57-140	4	25	
Benzo(a)pyrene	4.80	0.010 µg/L	4.44		108	63-133	2	18	
Benzo(b+j)fluoranthene	10.5	0.050 µg/L	8.89		118	60-129	4	17	
Benzo(g,h,i)perylene	5.20	0.050 µg/L	4.44		117	52-139	1	22	
Benzo(k)fluoranthene	4.50	0.050 µg/L	4.44		101	50-138	8	26	
2-Chloronaphthalene	3.11	0.100 µg/L	4.38		71	50-139	15	23	
Chrysene	5.18	0.050 µg/L	4.44		117	59-140	2	23	
Dibenz(a,h)anthracene	5.05	0.010 µg/L	4.44		114	53-136	1	21	
Fluoranthene	4.12	0.030 µg/L	4.44		93	67-135	17	18	
Fluorene	3.33	0.050 µg/L	4.44		75	57-134	12	18	
Indeno(1,2,3-cd)pyrene	4.98	0.050 µg/L	4.44		112	52-129	< 1	21	
1-Methylnaphthalene	3.28	0.100 µg/L	4.44		74	50-140	8	20	



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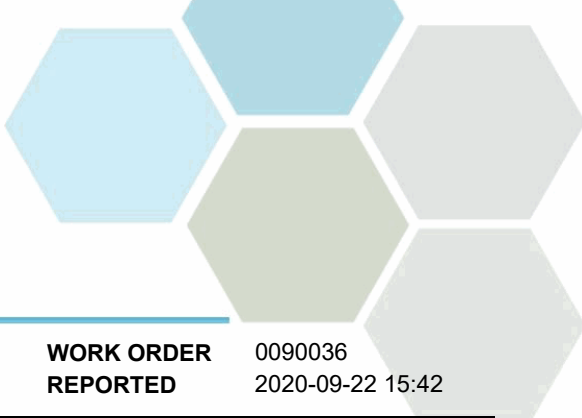
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B0I0667, Continued									
LCS Dup (B0I0667-BSD1), Continued					Prepared: 2020-09-08, Analyzed: 2020-09-09				
2-Methylnaphthalene	3.36	0.100 µg/L	4.44		76	50-140	7	21	
Naphthalene	3.49	0.200 µg/L	4.44		78	50-140	4	22	
Phenanthrene	3.90	0.100 µg/L	4.44		88	61-134	10	17	
Pyrene	4.09	0.020 µg/L	4.44		92	66-131	19	19	
Quinoline	4.77	0.050 µg/L	4.44		107	50-140	1	14	
Surrogate: Acridine-d9	4.26	µg/L	4.47		95	50-140			
Surrogate: Naphthalene-d8	3.24	µg/L	4.47		73	50-140			
Surrogate: Perylene-d12	3.97	µg/L	4.47		89	50-140			

Total Metals, Batch B0I0386

Blank (B0I0386-BLK1)					Prepared: 2020-09-03, Analyzed: 2020-09-03				
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B0I0386-BLK2)					Prepared: 2020-09-03, Analyzed: 2020-09-04				
Mercury, total	< 0.000010	0.000010 mg/L							
Matrix Spike (B0I0386-MS1)			Source: 0090036-01		Prepared: 2020-09-03, Analyzed: 2020-09-03				
Mercury, total	0.000222	0.000010 mg/L	0.000250	< 0.000010	89	70-130			
Reference (B0I0386-SRM1)					Prepared: 2020-09-03, Analyzed: 2020-09-03				
Mercury, total	0.00476	0.000010 mg/L	0.00581		82	70-130			
Reference (B0I0386-SRM2)					Prepared: 2020-09-03, Analyzed: 2020-09-04				
Mercury, total	0.00521	0.000010 mg/L	0.00581		90	70-130			

Total Metals, Batch B0I0649

Blank (B0I0649-BLK1)					Prepared: 2020-09-08, Analyzed: 2020-09-09				
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
LCS (B0I0649-BS1)					Prepared: 2020-09-08, Analyzed: 2020-09-09				
Aluminum, total	0.0226	0.0050 mg/L	0.0199		114	80-120			
Antimony, total	0.0205	0.00020 mg/L	0.0200		102	80-120			
Arsenic, total	0.0208	0.00050 mg/L	0.0200		104	80-120			
Barium, total	0.0204	0.0050 mg/L	0.0198		103	80-120			
Boron, total	< 0.0500	0.0500 mg/L	0.0200		119	80-120			



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Total Metals, Batch B010649, Continued

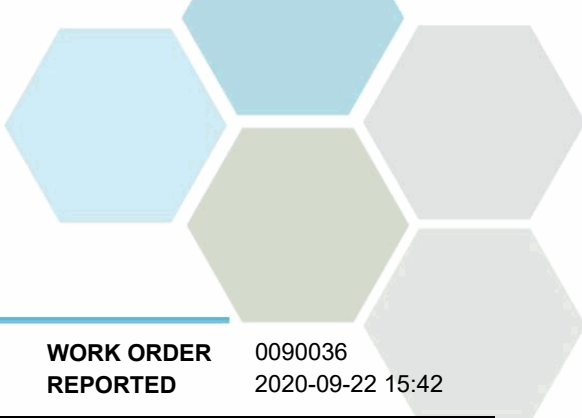
LCS (B010649-BS1), Continued				Prepared: 2020-09-08, Analyzed: 2020-09-09					
Cadmium, total	0.0208	0.000010 mg/L	0.0199	105	80-120				
Calcium, total	2.25	0.20 mg/L	2.02	111	80-120				
Chromium, total	0.0206	0.00050 mg/L	0.0198	104	80-120				
Copper, total	0.0203	0.00040 mg/L	0.0200	102	80-120				
Iron, total	2.09	0.010 mg/L	2.02	103	80-120				
Lead, total	0.0202	0.00020 mg/L	0.0199	102	80-120				
Magnesium, total	2.23	0.010 mg/L	2.02	110	80-120				
Manganese, total	0.0205	0.00020 mg/L	0.0199	103	80-120				
Potassium, total	2.11	0.10 mg/L	2.02	105	80-120				
Selenium, total	0.0194	0.00050 mg/L	0.0200	97	80-120				
Silver, total	0.0207	0.000050 mg/L	0.0200	104	80-120				
Sodium, total	2.17	0.10 mg/L	2.02	107	80-120				
Strontium, total	0.0202	0.0010 mg/L	0.0200	101	80-120				
Uranium, total	0.0201	0.000020 mg/L	0.0200	100	80-120				
Zinc, total	0.0211	0.0040 mg/L	0.0200	105	80-120				

Reference (B010649-SRM1)				Prepared: 2020-09-08, Analyzed: 2020-09-09					
Aluminum, total	0.318	0.0050 mg/L	0.299	106	70-130				
Antimony, total	0.0546	0.00020 mg/L	0.0517	106	70-130				
Arsenic, total	0.131	0.00050 mg/L	0.119	110	70-130				
Barium, total	0.848	0.0050 mg/L	0.801	106	70-130				
Boron, total	4.16	0.0500 mg/L	4.11	101	70-130				
Cadmium, total	0.0541	0.000010 mg/L	0.0503	108	70-130				
Calcium, total	11.2	0.20 mg/L	10.7	104	70-130				
Chromium, total	0.269	0.00050 mg/L	0.250	108	70-130				
Copper, total	0.509	0.00040 mg/L	0.487	105	70-130				
Iron, total	0.546	0.010 mg/L	0.504	108	70-130				
Lead, total	0.298	0.00020 mg/L	0.278	107	70-130				
Magnesium, total	4.24	0.010 mg/L	3.59	118	70-130				
Manganese, total	0.119	0.00020 mg/L	0.111	107	70-130				
Potassium, total	6.52	0.10 mg/L	5.89	111	70-130				
Selenium, total	0.129	0.00050 mg/L	0.120	107	70-130				
Sodium, total	9.86	0.10 mg/L	8.71	113	70-130				
Strontium, total	0.422	0.0010 mg/L	0.393	107	70-130				
Uranium, total	0.0372	0.000020 mg/L	0.0344	108	70-130				
Zinc, total	2.65	0.0040 mg/L	2.50	106	70-130				

Volatile Organic Compounds (VOC), Batch B010485

Blank (B010485-BLK1)				Prepared: 2020-09-04, Analyzed: 2020-09-04					
Bromodichloromethane	< 0.0010	0.0010 mg/L							
Bromoform	< 0.0010	0.0010 mg/L							
Chloroform	< 0.0010	0.0010 mg/L							
Dibromochloromethane	< 0.0010	0.0010 mg/L							
Surrogate: Toluene-d8	0.0257	mg/L	0.0265	97	70-130				
Surrogate: 4-Bromofluorobenzene	0.0277	mg/L	0.0249	111	70-130				

LCS (B010485-BS1)				Prepared: 2020-09-04, Analyzed: 2020-09-04					
Bromodichloromethane	0.0153	0.0010 mg/L	0.0200	76	70-130				
Bromoform	0.0157	0.0010 mg/L	0.0201	78	70-130				
Chloroform	0.0158	0.0010 mg/L	0.0201	79	70-130				
Dibromochloromethane	0.0156	0.0010 mg/L	0.0202	77	70-130				
Surrogate: Toluene-d8	0.0224	mg/L	0.0265	85	70-130				
Surrogate: 4-Bromofluorobenzene	0.0228	mg/L	0.0249	92	70-130				



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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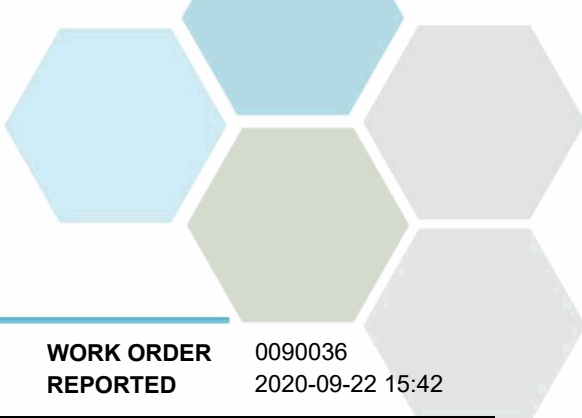
Volatile Organic Compounds (VOC), Batch B0I0485, Continued

Duplicate (B0I0485-DUP1)		Source: 0090036-02		Prepared: 2020-09-04, Analyzed: 2020-09-04					
Bromodichloromethane	0.0020	0.0010	mg/L	0.0023					23
Bromoform	< 0.0010	0.0010	mg/L	< 0.0010					23
Chloroform	0.0591	0.0010	mg/L	0.0675			13		22
Dibromochloromethane	< 0.0010	0.0010	mg/L	< 0.0010					28
Surrogate: Toluene-d8	0.0220		mg/L	0.0265	83	70-130			
Surrogate: 4-Bromofluorobenzene	0.0184		mg/L	0.0249	74	70-130			

Matrix Spike (B0I0485-MS1)		Source: 0090036-02		Prepared: 2020-09-04, Analyzed: 2020-09-04					
Bromodichloromethane	0.0184	0.0010	mg/L	0.0200	0.0023	81	70-130		
Bromoform	0.0167	0.0010	mg/L	0.0201	< 0.0010	83	70-130		
Chloroform	0.0828	0.0010	mg/L	0.0201	0.0675	76	70-130		
Dibromochloromethane	0.0162	0.0010	mg/L	0.0202	< 0.0010	80	70-130		
Surrogate: Toluene-d8	0.0225		mg/L	0.0265		85	70-130		
Surrogate: 4-Bromofluorobenzene	0.0233		mg/L	0.0249		93	70-130		

Volatile Organic Compounds (VOC), Batch B0I0696

Blank (B0I0696-BLK1)		Prepared: 2020-09-08, Analyzed: 2020-09-08							
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						
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	25.3		µg/L	26.5		95	70-130		
Surrogate: 4-Bromofluorobenzene	24.7		µg/L	24.9		99	70-130		
Surrogate: 1,4-Dichlorobenzene-d4	25.0		µg/L	25.5		98	70-130		



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B010696, Continued									
LCS (B010696-BS1)					Prepared: 2020-09-09, Analyzed: 2020-09-09				
Benzene	17.1	0.5 µg/L	20.0		86	70-130			
Bromodichloromethane	31.8	1.0 µg/L	20.0		159	70-130			SPK1
Bromoform	21.4	1.0 µg/L	20.1		106	70-130			
Carbon tetrachloride	31.0	0.5 µg/L	20.2		153	70-130			SPK
Chlorobenzene	17.4	1.0 µg/L	20.1		86	70-130			
Chloroethane	17.2	2.0 µg/L	20.0		86	60-140			
Chloroform	30.0	1.0 µg/L	20.1		149	70-130			SPK1
Dibromochloromethane	24.5	1.0 µg/L	20.2		121	70-130			
1,2-Dibromoethane	20.8	0.3 µg/L	20.0		104	70-130			
Dibromomethane	14.6	1.0 µg/L	20.0		73	70-130			
1,2-Dichlorobenzene	17.5	0.5 µg/L	20.1		87	70-130			
1,3-Dichlorobenzene	17.1	1.0 µg/L	20.1		85	70-130			
1,4-Dichlorobenzene	17.8	1.0 µg/L	20.1		89	70-130			
1,1-Dichloroethane	26.8	1.0 µg/L	20.1		134	70-130			SPK
1,2-Dichloroethane	47.1	1.0 µg/L	20.1		235	70-130			SPK
1,1-Dichloroethylene	25.6	1.0 µg/L	20.1		127	70-130			
cis-1,2-Dichloroethylene	17.1	1.0 µg/L	20.0		86	70-130			
trans-1,2-Dichloroethylene	14.1	1.0 µg/L	20.0		70	70-130			
Dichloromethane	17.7	3.0 µg/L	20.1		88	70-130			
1,2-Dichloropropane	24.4	1.0 µg/L	20.1		121	70-130			
1,3-Dichloropropane (cis + trans)	55.2	1.0 µg/L	40.0		138	70-130			SPK
Ethylbenzene	18.6	1.0 µg/L	20.0		93	70-130			
Methyl tert-butyl ether	35.5	1.0 µg/L	20.0		178	70-130			SPK
Styrene	14.6	1.0 µg/L	20.0		73	70-130			
1,1,2,2-Tetrachloroethane	22.0	0.5 µg/L	20.1		110	70-130			
Tetrachloroethylene	17.1	1.0 µg/L	20.1		85	70-130			
Toluene	19.7	1.0 µg/L	20.0		98	70-130			
1,1,1-Trichloroethane	31.4	1.0 µg/L	20.0		157	70-130			SPK
1,1,2-Trichloroethane	20.7	1.0 µg/L	20.1		103	70-130			
Trichloroethylene	16.2	1.0 µg/L	20.1		80	70-130			
Trichlorofluoromethane	32.3	1.0 µg/L	20.0		161	60-140			SPK
Vinyl chloride	16.2	1.0 µg/L	20.0		81	60-140			
Xylenes (total)	57.9	2.0 µg/L	60.0		96	70-130			
Surrogate: Toluene-d8	25.0	µg/L	26.5		94	70-130			
Surrogate: 4-Bromofluorobenzene	30.4	µg/L	24.9		122	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	37.5	µg/L	25.5		147	70-130			S02

QC Qualifiers:

- BLK Analyte concentration in the Method Blank is above the Reporting Limit (RL).
- 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 Data accepted based on results of other QC in batch
- 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.