



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 21B2435

RECEIVED / TEMP 2021-02-24 11:40 / 10°C
REPORTED 2021-03-09 13:52

COC NUMBER 10315

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.

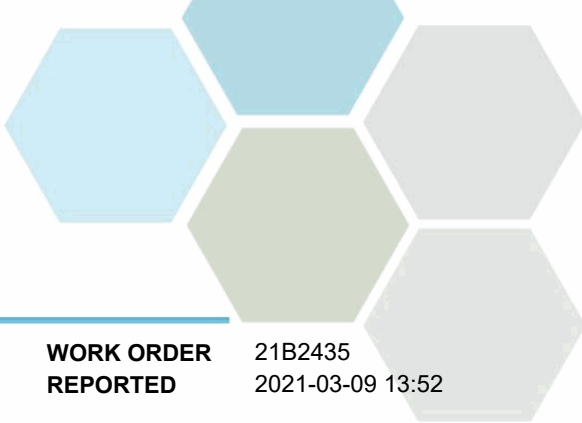
If you have any questions or concerns, please contact me at acrump@caro.ca

Authorized By:

Alana Crump
Team Lead, Client Service

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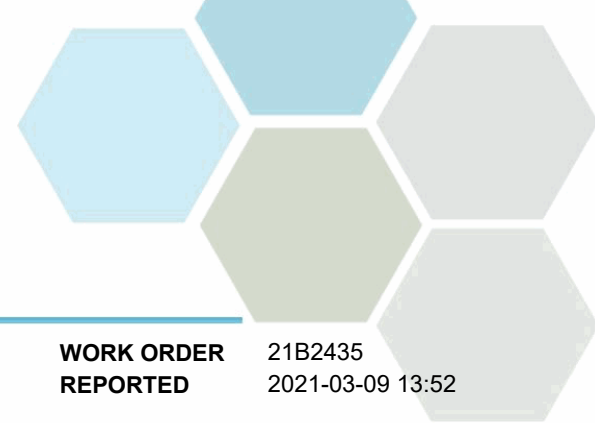


TEST RESULTS

REPORTED TO PROJECT Mountainview Regional Water Services Commission
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Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
Treated (21B2435-01) Matrix: Water Sampled: 2021-02-23					PRES
Acid Herbicides					
2,4-D	< 0.10	MAC = 100	0.10 µg/L	2021-03-02	
MCPA	< 0.02	MAC = 100	0.02 µg/L	2021-03-02	
2,4,5-T	< 0.10	N/A	0.10 µg/L	2021-03-02	
Dicamba	< 0.10	MAC = 120	0.10 µg/L	2021-03-02	
Picloram	< 0.10	MAC = 190	0.10 µg/L	2021-03-02	
Dinoseb	< 0.10	N/A	0.10 µg/L	2021-03-02	
Anions					
Bromate	< 0.010	MAC = 0.01	0.010 mg/L	2021-03-04	
Chloride	4.77	AO ≤ 250	0.50 mg/L	2021-02-25	
Fluoride	0.12	MAC = 1.5	0.10 mg/L	2021-02-25	
Nitrate (as N)	0.118	MAC = 10	0.050 mg/L	2021-02-25	
Nitrite (as N)	< 0.050	MAC = 1	0.050 mg/L	2021-02-25	
Sulfate	46.9	AO ≤ 500	1.0 mg/L	2021-02-25	
Calculated Parameters					
Chloramines	0.100	MAC = 3	0.0400 mg/L	N/A	
Total Trihalomethanes	0.0436	MAC = 0.1	0.00400 mg/L	N/A	
Hardness, Total (as CaCO3)	241	None Required	0.541 mg/L	N/A	
Solids, Total Dissolved	271	AO ≤ 500	3.35 mg/L	N/A	
Chlorinated Phenols					
2-Chlorophenol	< 0.10	N/A	0.10 µg/L	2021-03-03	
3 & 4-Chlorophenol	< 0.68	N/A	0.10 µg/L	2021-03-03	RA1
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50 µg/L	2021-03-03	
2,3-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2021-03-03	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20 µg/L	2021-03-03	
2,6-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2021-03-03	
3,4-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2021-03-03	
3,5-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2021-03-03	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2021-03-03	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2021-03-03	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2021-03-03	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2021-03-03	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50 µg/L	2021-03-03	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2021-03-03	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50 µg/L	2021-03-03	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50 µg/L	2021-03-03	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50 µg/L	2021-03-03	
Surrogate: 2,4-Dibromophenol	66		60-130 %	2021-03-03	
Surrogate: 2,4,6-Tribromophenol	79		60-130 %	2021-03-03	
General Parameters					
Alkalinity, Total (as CaCO3)	209	N/A	2.0 mg/L	2021-02-25	

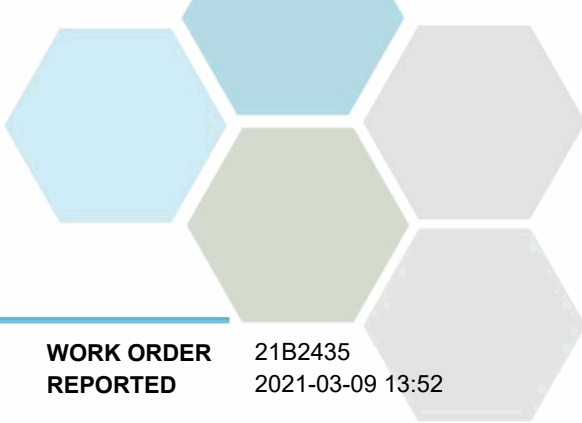


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Treated (21B2435-01) Matrix: Water Sampled: 2021-02-23, Continued					PRES
General Parameters, Continued					
Bicarbonate (HCO ₃)	255	N/A	2.0 mg/L	2021-02-25	
Carbonate (CO ₃)	< 2.0	N/A	2.0 mg/L	2021-02-25	
Hydroxide (OH)	< 2.0	N/A	2.0 mg/L	2021-02-25	
Ammonia, Total (as N)	0.078	None Required	0.050 mg/L	2021-03-01	
Carbon, Total Organic	1.36	N/A	0.50 mg/L	2021-02-26	
Chlorine, Total	0.92	None Required	0.02 mg/L	2021-02-26	HT2
Chlorine, Free	0.82	N/A	0.02 mg/L	2021-02-26	HT2
Colour, True	< 5.0	AO ≤ 15	5.0 CU	2021-02-26	
Conductivity (EC)	466	N/A	2.0 µS/cm	2021-02-24	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2021-03-01	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20 mg/L	2021-03-02	
pH	7.65	7.0-10.5	0.10 pH units	2021-02-25	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020 mg/L	2021-02-24	
Turbidity	0.14	OG < 1	0.10 NTU	2021-02-25	
Haloacetic Acids					
Monochloroacetic Acid	< 0.0020	N/A	0.0020 mg/L	2021-03-02	
Monobromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2021-03-02	
Dichloroacetic Acid	0.0139	N/A	0.0020 mg/L	2021-03-02	
Trichloroacetic Acid	0.0202	N/A	0.0020 mg/L	2021-03-02	
Dibromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2021-03-02	
Total Haloacetic Acids (HAA5)	0.0340	MAC = 0.08	0.00200 mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	110		70-130 %	2021-03-02	
Microbiological Parameters					
Microcystin, total	< 0.14	MAC = 1.5	0.14 µg/L	2021-02-26	
Miscellaneous Herbicides					
Glyphosate	< 0.050	MAC = 0.28	0.050 mg/L	2021-03-02	
Pesticides, Herbicides, and Fungicides					
Alachlor	< 0.100	N/A	0.100 µg/L	2021-03-08	HT1
Aldrin	< 0.006	N/A	0.006 µg/L	2021-03-08	
Atrazine and metabolites	< 0.100	MAC = 5	0.100 µg/L	2021-03-08	
Azinphos-methyl	< 0.200	MAC = 20	0.200 µg/L	2021-03-08	
alpha-BHC	< 0.010	N/A	0.010 µg/L	2021-03-08	
beta-BHC	< 0.050	N/A	0.050 µg/L	2021-03-08	
delta-BHC	< 0.050	N/A	0.050 µg/L	2021-03-08	
gamma-BHC (Lindane)	< 0.050	N/A	0.050 µg/L	2021-03-08	
Bromacil	< 0.100	N/A	0.100 µg/L	2021-03-08	
Bromoxynil	< 0.200	MAC = 5	0.200 µg/L	2021-03-08	
Butachlor	< 0.020	N/A	0.020 µg/L	2021-03-08	
Captan	< 0.100	N/A	0.100 µg/L	2021-03-08	
Chlordane (cis + trans)	< 0.050	N/A	0.050 µg/L	2021-03-08	



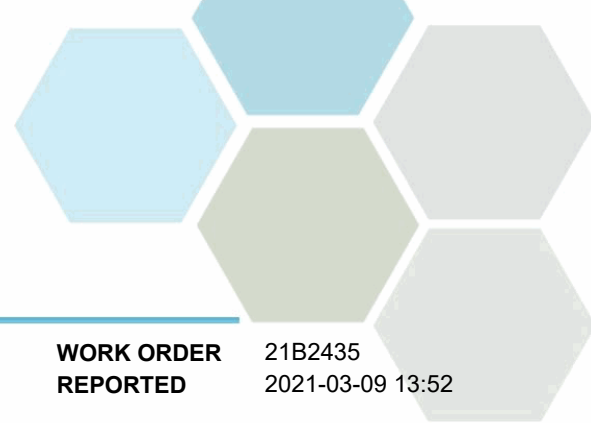
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<i>Pesticides, Herbicides, and Fungicides, Continued</i>						HT1
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2021-03-08	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2021-03-08	
Cyanazine	< 0.100	N/A	0.100	µg/L	2021-03-08	
DDT, Total	< 0.010	N/A	0.010	µg/L	2021-03-08	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2021-03-08	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2021-03-08	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2021-03-08	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2021-03-08	
Dieldrin	< 0.010	N/A	0.010	µg/L	2021-03-08	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2021-03-08	
Disulfoton	< 0.100	N/A	0.100	µg/L	2021-03-08	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2021-03-08	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2021-03-08	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2021-03-08	
Endrin	< 0.020	N/A	0.020	µg/L	2021-03-08	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2021-03-08	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2021-03-08	
Fenchlorphos (Ronnel)	< 0.100	N/A	0.100	µg/L	2021-03-08	
Heptachlor	< 0.010	N/A	0.010	µg/L	2021-03-08	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2021-03-08	
Linuron	< 0.050	N/A	0.050	µg/L	2021-03-08	
Malathion	< 0.100	MAC = 190	0.100	µg/L	2021-03-08	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2021-03-08	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2021-03-08	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2021-03-08	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2021-03-08	
Parathion	< 0.100	N/A	0.100	µg/L	2021-03-08	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2021-03-08	
Permethrin	< 0.010	N/A	0.010	µg/L	2021-03-08	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2021-03-08	
Prometon	< 0.300	N/A	0.300	µg/L	2021-03-08	
Prometryne	< 0.100	N/A	0.100	µg/L	2021-03-08	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2021-03-08	
Sulfotep	< 0.100	N/A	0.100	µg/L	2021-03-08	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2021-03-08	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2021-03-08	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2021-03-08	
Triallate	< 0.100	N/A	0.100	µg/L	2021-03-08	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2021-03-08	
Surrogate: Tributyl Phosphate	85		50-140	%	2021-03-08	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	77		50-140	%	2021-03-08	

Polycyclic Aromatic Hydrocarbons (PAH)



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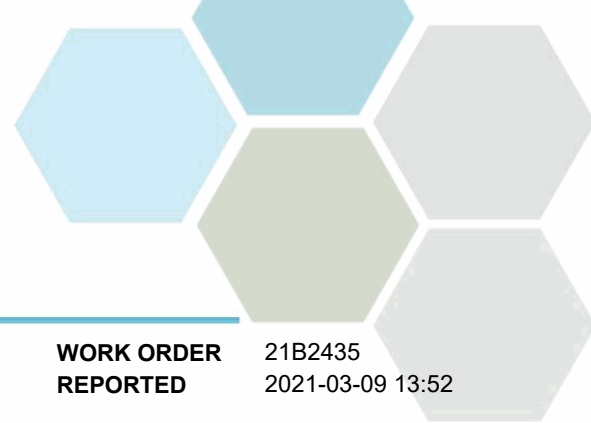
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated (21B2435-01) Matrix: Water Sampled: 2021-02-23, Continued						PRES

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Acenaphthene	< 0.050	N/A	0.050	µg/L	2021-02-27	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2021-02-27	
Acridine	< 0.050	N/A	0.050	µg/L	2021-02-27	
Anthracene	< 0.010	N/A	0.010	µg/L	2021-02-27	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2021-02-27	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2021-02-27	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2021-02-27	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2021-02-27	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2021-02-27	
2-Chloronaphthalene	0.121	N/A	0.100	µg/L	2021-02-27	
Chrysene	< 0.050	N/A	0.050	µg/L	2021-02-27	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2021-02-27	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2021-02-27	
Fluorene	< 0.050	N/A	0.050	µg/L	2021-02-27	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2021-02-27	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2021-02-27	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2021-02-27	
Naphthalene	< 0.200	N/A	0.200	µg/L	2021-02-27	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2021-02-27	
Pyrene	< 0.020	N/A	0.020	µg/L	2021-02-27	
Quinoline	< 0.050	N/A	0.050	µg/L	2021-02-27	
Surrogate: Acridine-d9	75		50-140	%	2021-02-27	
Surrogate: Naphthalene-d8	95		50-140	%	2021-02-27	
Surrogate: Perylene-d12	90		50-140	%	2021-02-27	

Total Metals

Aluminum, total	0.0173	OG < 0.1	0.0050	mg/L	2021-02-27	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2021-02-27	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2021-02-27	
Barium, total	0.138	MAC = 2	0.0050	mg/L	2021-02-27	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2021-02-27	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2021-02-27	
Calcium, total	60.6	None Required	0.20	mg/L	2021-02-27	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-02-27	
Copper, total	< 0.00040	MAC = 2	0.00040	mg/L	2021-02-27	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2021-02-27	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2021-02-27	
Magnesium, total	21.9	None Required	0.010	mg/L	2021-02-27	
Manganese, total	0.00658	MAC = 0.12	0.00020	mg/L	2021-02-27	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2021-02-27	
Potassium, total	1.32	N/A	0.10	mg/L	2021-02-27	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-02-27	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2021-02-27	

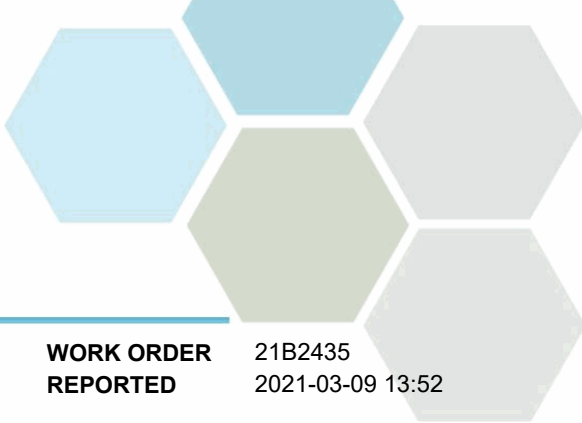


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<i>Total Metals, Continued</i>						
Sodium, total	7.35	AO ≤ 200	0.10	mg/L	2021-02-27	
Strontium, total	0.423	7	0.0010	mg/L	2021-02-27	
Uranium, total	0.000324	MAC = 0.02	0.000020	mg/L	2021-02-27	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2021-02-27	
<i>Volatile Organic Compounds (VOC)</i>						
Benzene	< 0.5	MAC = 5	0.5	µg/L	2021-03-03	
Bromodichloromethane	4.2	N/A	1.0	µg/L	2021-03-03	
Bromoform	1.8	N/A	1.0	µg/L	2021-03-03	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2021-03-03	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2021-03-03	
Chloroethane	< 2.0	N/A	2.0	µg/L	2021-03-03	
Chloroform	36.3	N/A	1.0	µg/L	2021-03-03	
Dibromochloromethane	1.3	N/A	1.0	µg/L	2021-03-03	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2021-03-03	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2021-03-03	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5	µg/L	2021-03-03	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2021-03-03	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2021-03-03	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2021-03-03	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2021-03-03	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0	µg/L	2021-03-03	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2021-03-03	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2021-03-03	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2021-03-03	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2021-03-03	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2021-03-03	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2021-03-03	CST2
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2021-03-03	
Styrene	< 1.0	N/A	1.0	µg/L	2021-03-03	
1,1,2,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2021-03-03	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2021-03-03	
Toluene	< 1.0	AO ≤ 24	1.0	µg/L	2021-03-03	CST2
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2021-03-03	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2021-03-03	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2021-03-03	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2021-03-03	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2021-03-03	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2021-03-03	CST2
Surrogate: Toluene-d8	37		70-130	%	2021-03-03	S09
Surrogate: 4-Bromofluorobenzene	75		70-130	%	2021-03-03	
Surrogate: 1,4-Dichlorobenzene-d4	67		70-130	%	2021-03-03	S02



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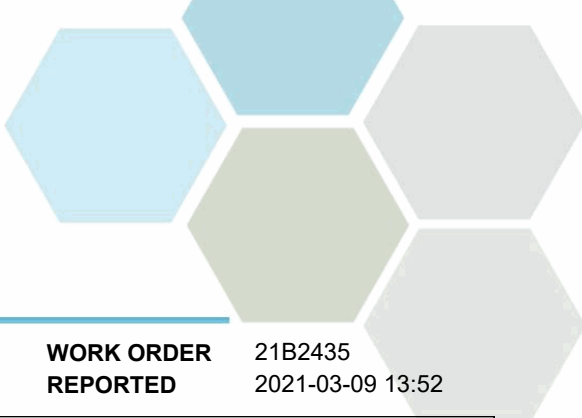
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
MPR-IN (21B2435-02) Matrix: Water Sampled: 2021-02-23						
<i>Calculated Parameters</i>						
Total Trihalomethanes	0.0361	MAC = 0.1	0.00400	mg/L		N/A
<i>Volatile Organic Compounds (VOC)</i>						
Bromodichloromethane	0.0019	N/A	0.0010	mg/L		2021-02-27
Bromoform	< 0.0010	N/A	0.0010	mg/L		2021-02-27
Chloroform	0.0324	N/A	0.0010	mg/L		2021-02-27
Dibromochloromethane	0.0018	N/A	0.0010	mg/L		2021-02-27
Surrogate: Toluene-d8	115		70-130	%		2021-02-27
Surrogate: 4-Bromofluorobenzene	74		70-130	%		2021-02-27

MPR-OUT (21B2435-03) | Matrix: Water | Sampled: 2021-02-23

<i>Calculated Parameters</i>						
Total Trihalomethanes	0.0407	MAC = 0.1	0.00400	mg/L		N/A
<i>Volatile Organic Compounds (VOC)</i>						
Bromodichloromethane	0.0021	N/A	0.0010	mg/L		2021-02-27
Bromoform	< 0.0010	N/A	0.0010	mg/L		2021-02-27
Chloroform	0.0364	N/A	0.0010	mg/L		2021-02-27
Dibromochloromethane	0.0021	N/A	0.0010	mg/L		2021-02-27
Surrogate: Toluene-d8	113		70-130	%		2021-02-27
Surrogate: 4-Bromofluorobenzene	71		70-130	%		2021-02-27

Plant (21B2435-04) | Matrix: Water | Sampled: 2021-02-23

<i>Calculated Parameters</i>						
Total Trihalomethanes	0.0230	MAC = 0.1	0.00400	mg/L		N/A
<i>Volatile Organic Compounds (VOC)</i>						
Bromodichloromethane	0.0012	N/A	0.0010	mg/L		2021-02-27
Bromoform	< 0.0010	N/A	0.0010	mg/L		2021-02-27
Chloroform	0.0205	N/A	0.0010	mg/L		2021-02-27
Dibromochloromethane	0.0013	N/A	0.0010	mg/L		2021-02-27
Surrogate: Toluene-d8	111		70-130	%		2021-02-27
Surrogate: 4-Bromofluorobenzene	71		70-130	%		2021-02-27



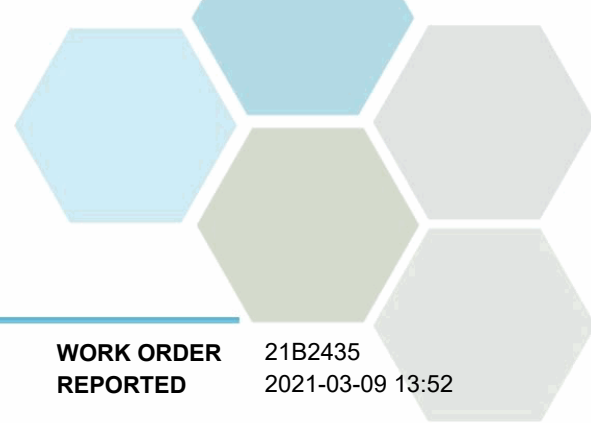
TEST RESULTS

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Sample Qualifiers:

- CST2 Potential for low bias due to matrix effect on surrogate and/or matrix spike recoveries.
- 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.
- PRES Sample has been preserved for HAA in the laboratory and the holding time has been extended.
- RA1 The Reporting Limit has been raised due to matrix interference.
- 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 due to matrix effects



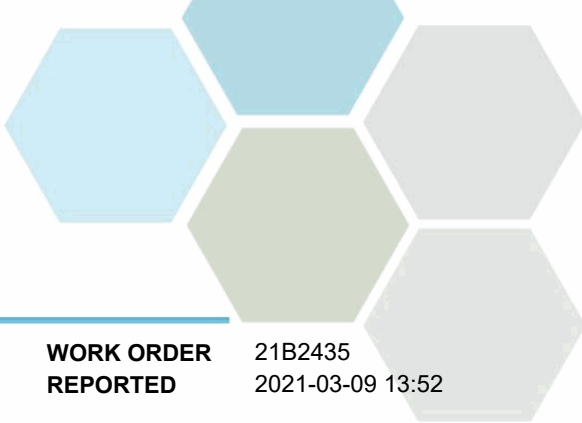
APPENDIX 1: SUPPORTING INFORMATION

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Analysis Description	Method Ref.	Technique	Accredited	Location
Acid Herbicides in Water in Water	In-House	N/A	✓	Richmond
Alkalinity in Water	SM 2320 B* (2017)	Titration with H2SO4	✓	Edmonton
Ammonia, Total in Water	SM 4500-NH3 D* (2017)	Ion Selective Electrode	✓	Edmonton
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Edmonton
Bromate in Water	SM 4110 B (2017)	Ion Chromatography	✓	Sublet
Carbon, Total Organic in Water	SM 5310 B (2017)	Combustion, Infrared CO2 Detection	✓	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2017)	Colorimetry (DPD)	✓	Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2017)	Colorimetry (DPD)	✓	Edmonton
Colour, True in Water	SM 2120 C (2017)	Spectrophotometry (456 nm)	✓	Edmonton
Conductivity in Water	SM 2510 B (2017)	Conductivity Meter	✓	Edmonton
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Cyanobacterial Toxins in Water	EPA 546*	Adda Enzyme-Linked Immunosorbent Assay (ELISA)	✓	Sublet
Glyphosate in Water	EPA 547*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	✓	Richmond
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Hardness in Water	SM 2340 B (2017)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
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 Spectroscopy (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



APPENDIX 1: SUPPORTING INFORMATION

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Glossary of Terms:

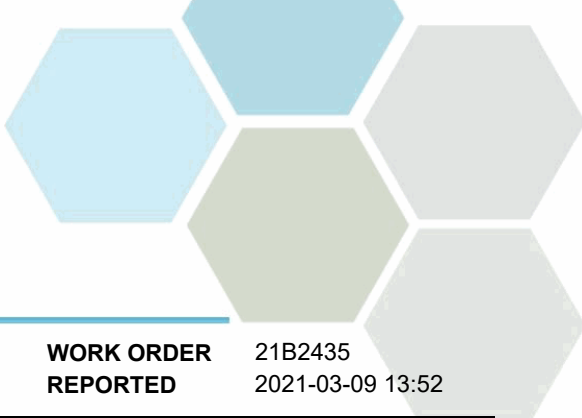
RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µg/L	Micrograms per litre
µS/cm	Microsiemens per centimetre
ASTM	ASTM International Test Methods
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: acrump@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.

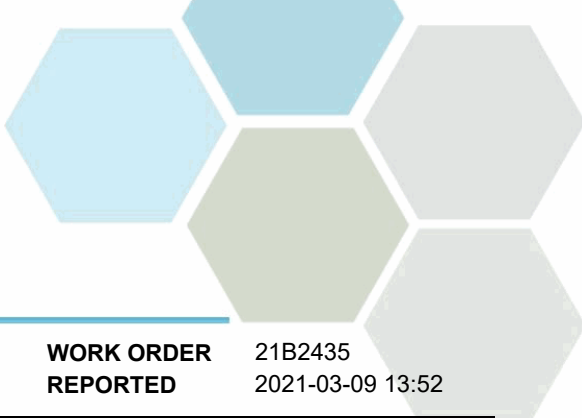
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Acid Herbicides, Batch B1C0055

Blank (B1C0055-BLK1)			Prepared: 2021-03-01, Analyzed: 2021-03-02						
2,4-D	< 0.10	0.10 µg/L							
MCPA	< 0.02	0.02 µg/L							
2,4,5-T	< 0.10	0.10 µg/L							
Dicamba	< 0.10	0.10 µg/L							
Picloram	< 0.10	0.10 µg/L							
Dinoseb	< 0.10	0.10 µg/L							
LCS (B1C0055-BS1)			Prepared: 2021-03-01, Analyzed: 2021-03-02						
2,4-D	5.08	0.10 µg/L	5.05		101	70-130			
MCPA	4.07	0.02 µg/L	5.05		81	70-130			
2,4,5-T	5.77	0.10 µg/L	4.98		116	70-130			
Dicamba	5.18	0.10 µg/L	5.05		103	70-130			
Picloram	5.18	0.10 µg/L	5.00		104	70-130			
Dinoseb	4.47	0.10 µg/L	4.98		90	70-130			
LCS Dup (B1C0055-BSD1)			Prepared: 2021-03-01, Analyzed: 2021-03-02						
2,4-D	5.30	0.10 µg/L	5.05		105	70-130	4	30	
MCPA	4.80	0.02 µg/L	5.05		95	70-130	16	30	
2,4,5-T	5.71	0.10 µg/L	4.98		115	70-130	1	30	
Dicamba	5.71	0.10 µg/L	5.05		113	70-130	10	30	
Picloram	4.50	0.10 µg/L	5.00		90	70-130	14	30	
Dinoseb	4.29	0.10 µg/L	4.98		86	70-130	4	30	

Anions, Batch B1B2398

Blank (B1B2398-BLK1)			Prepared: 2021-02-25, Analyzed: 2021-02-25						
Chloride	< 0.50	0.50 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.050	0.050 mg/L							
Nitrite (as N)	< 0.050	0.050 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B1B2398-BS1)			Prepared: 2021-02-25, Analyzed: 2021-02-25						
Chloride	9.97	0.50 mg/L	10.0		100	90-110			
Fluoride	1.02	0.10 mg/L	1.00		102	85-115			
Nitrate (as N)	0.991	0.050 mg/L	1.00		99	92-108			



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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Anions, Batch B1B2398, Continued

LCS (B1B2398-BS1), Continued

Prepared: 2021-02-25, Analyzed: 2021-02-25

Nitrite (as N)	0.512	0.050 mg/L	0.500		102	85-115			
Sulfate	49.9	1.0 mg/L	50.0		100	90-110			

Chlorinated Phenols, Batch B1C0222

Blank (B1C0222-BLK1)

Prepared: 2021-03-03, Analyzed: 2021-03-03

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	1.30	µg/L	2.02		64	60-130			
Surrogate: 2,4,6-Tribromophenol	1.32	µg/L	2.00		66	60-130			

LCS (B1C0222-BS1)

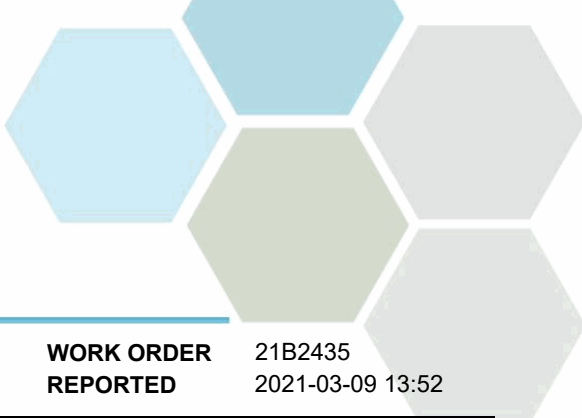
Prepared: 2021-03-03, Analyzed: 2021-03-03

2-Chlorophenol	6.02	0.10 µg/L	10.0		60	60-108			
3 & 4-Chlorophenol	14.3	0.10 µg/L	20.1		71	60-120			
4-Chloro-3-Methylphenol	7.19	0.50 µg/L	10.0		72	60-140			
2,3-Dichlorophenol	6.67	0.20 µg/L	10.0		67	60-111			
2,4 & 2,5-Dichlorophenol	13.9	0.20 µg/L	20.2		69	60-116			
2,6-Dichlorophenol	6.63	0.20 µg/L	10.0		66	60-112			
3,4-Dichlorophenol	8.18	0.20 µg/L	10.0		82	60-120			
3,5-Dichlorophenol	6.02	0.20 µg/L	10.0		60	60-121			
2,3,4-Trichlorophenol	6.66	0.50 µg/L	10.0		67	60-122			
2,3,5-Trichlorophenol	7.05	0.50 µg/L	10.0		71	60-126			
2,3,6-Trichlorophenol	7.00	0.50 µg/L	10.0		70	60-130			
2,4,5-Trichlorophenol	6.83	0.50 µg/L	10.0		68	60-118			
2,4,6-Trichlorophenol	6.61	0.50 µg/L	10.0		66	60-120			
3,4,5-Trichlorophenol	8.94	0.50 µg/L	10.0		89	60-129			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	18.6	0.50 µg/L	20.0		93	60-127			
2,3,4,6-Tetrachlorophenol	7.79	0.50 µg/L	10.0		77	60-127			
Pentachlorophenol	10.9	0.50 µg/L	10.0		109	60-130			
Surrogate: 2,4-Dibromophenol	1.32	µg/L	2.02		66	60-130			
Surrogate: 2,4,6-Tribromophenol	1.54	µg/L	2.00		77	60-130			

LCS Dup (B1C0222-BSD1)

Prepared: 2021-03-03, Analyzed: 2021-03-03

2-Chlorophenol	6.43	0.10 µg/L	10.0		64	60-108	7	32	
3 & 4-Chlorophenol	15.8	0.10 µg/L	20.1		79	60-120	10	21	
4-Chloro-3-Methylphenol	8.18	0.50 µg/L	10.0		81	60-140	13	30	
2,3-Dichlorophenol	8.06	0.20 µg/L	10.0		81	60-111	19	27	
2,4 & 2,5-Dichlorophenol	16.2	0.20 µg/L	20.2		80	60-116	16	22	
2,6-Dichlorophenol	7.87	0.20 µg/L	10.0		79	60-112	17	27	
3,4-Dichlorophenol	9.34	0.20 µg/L	10.0		93	60-120	13	22	
3,5-Dichlorophenol	6.90	0.20 µg/L	10.0		69	60-121	14	23	



APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Chlorinated Phenols, Batch B1C0222, Continued									
LCS Dup (B1C0222-BSD1), Continued					Prepared: 2021-03-03, Analyzed: 2021-03-03				
2,3,4-Trichlorophenol	7.50	0.50 µg/L	10.0		75	60-122	12	26	
2,3,5-Trichlorophenol	8.06	0.50 µg/L	10.0		81	60-126	13	24	
2,3,6-Trichlorophenol	8.17	0.50 µg/L	10.0		82	60-130	15	26	
2,4,5-Trichlorophenol	7.68	0.50 µg/L	10.0		77	60-118	12	22	
2,4,6-Trichlorophenol	7.54	0.50 µg/L	10.0		75	60-120	13	26	
3,4,5-Trichlorophenol	9.68	0.50 µg/L	10.0		96	60-129	8	19	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	20.5	0.50 µg/L	20.0		102	60-127	10	26	
2,3,4,6-Tetrachlorophenol	8.19	0.50 µg/L	10.0		82	60-127	5	23	
Pentachlorophenol	11.8	0.50 µg/L	10.0		118	60-130	8	17	
Surrogate: 2,4-Dibromophenol	1.50	µg/L	2.02		74	60-130			
Surrogate: 2,4,6-Tribromophenol	1.77	µg/L	2.00		89	60-130			

General Parameters, Batch B1B1996

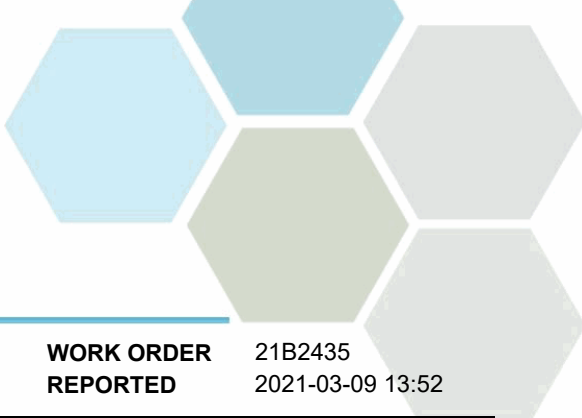
Blank (B1B1996-BLK1)					Prepared: 2021-02-25, Analyzed: 2021-02-25				
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B1B1996-BLK2)					Prepared: 2021-02-26, Analyzed: 2021-02-26				
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B1B1996-BLK3)					Prepared: 2021-02-26, Analyzed: 2021-02-26				
Carbon, Total Organic	< 0.50	0.50 mg/L							
LCS (B1B1996-BS1)					Prepared: 2021-02-25, Analyzed: 2021-02-25				
Carbon, Total Organic	9.34	0.50 mg/L	10.0		93	78-116			
LCS (B1B1996-BS2)					Prepared: 2021-02-26, Analyzed: 2021-02-26				
Carbon, Total Organic	9.12	0.50 mg/L	10.0		91	78-116			
LCS (B1B1996-BS3)					Prepared: 2021-02-26, Analyzed: 2021-02-26				
Carbon, Total Organic	10.3	0.50 mg/L	10.0		103	78-116			

General Parameters, Batch B1B2150

Blank (B1B2150-BLK1)					Prepared: 2021-02-24, Analyzed: 2021-02-24				
Sulfide, Total	< 0.020	0.020 mg/L							
Blank (B1B2150-BLK2)					Prepared: 2021-02-24, Analyzed: 2021-02-24				
Sulfide, Total	< 0.020	0.020 mg/L							
LCS (B1B2150-BS1)					Prepared: 2021-02-24, Analyzed: 2021-02-24				
Sulfide, Total	0.395	0.020 mg/L	0.400		99	80-120			
LCS (B1B2150-BS2)					Prepared: 2021-02-24, Analyzed: 2021-02-24				
Sulfide, Total	0.395	0.020 mg/L	0.400		99	80-120			
Matrix Spike (B1B2150-MS2)					Source: 21B2435-01 Prepared: 2021-02-24, Analyzed: 2021-02-24				
Sulfide, Total	0.460	0.020 mg/L	0.470	< 0.020	98	70-130			

General Parameters, Batch B1B2249

Blank (B1B2249-BLK1)					Prepared: 2021-02-24, Analyzed: 2021-02-24				
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B1B2249-BS1)					Prepared: 2021-02-24, Analyzed: 2021-02-24				
Conductivity (EC)	992	2.0 µS/cm	1000		99	95-105			

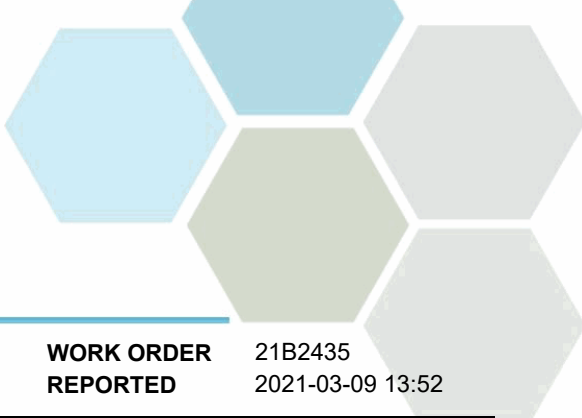


APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B1B2249, Continued									
Duplicate (B1B2249-DUP1)		Source: 21B2435-01		Prepared: 2021-02-24, Analyzed: 2021-02-24					
Conductivity (EC)	468	2.0 µS/cm		466			< 1	3	
General Parameters, Batch B1B2280									
Blank (B1B2280-BLK1)		Prepared: 2021-02-25, Analyzed: 2021-02-25							
Alkalinity, Total (as CaCO ₃)	< 2.0	2.0 mg/L							
Bicarbonate (HCO ₃)	< 2.0	2.0 mg/L							
Carbonate (CO ₃)	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							
LCS (B1B2280-BS1)		Prepared: 2021-02-25, Analyzed: 2021-02-25							
Alkalinity, Total (as CaCO ₃)	246	2.0 mg/L		250	98	94-108			
General Parameters, Batch B1B2281									
Reference (B1B2281-SRM1)		Prepared: 2021-02-25, Analyzed: 2021-02-25							
pH	6.99	0.10 pH units		7.00	100	98-102			
General Parameters, Batch B1B2401									
Blank (B1B2401-BLK1)		Prepared: 2021-02-25, Analyzed: 2021-02-25							
Turbidity	< 0.10	0.10 NTU							
LCS (B1B2401-BS1)		Prepared: 2021-02-25, Analyzed: 2021-02-25							
Turbidity	41.1	0.10 NTU		40.0	103	90-110			
General Parameters, Batch B1B2493									
Blank (B1B2493-BLK1)		Prepared: 2021-02-26, Analyzed: 2021-02-26							
Colour, True	< 5.0	5.0 CU							
LCS (B1B2493-BS1)		Prepared: 2021-02-26, Analyzed: 2021-02-26							
Colour, True	19	5.0 CU		20.0	95	90-109			
General Parameters, Batch B1B2498									
Blank (B1B2498-BLK1)		Prepared: 2021-02-26, Analyzed: 2021-02-26							
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							
Duplicate (B1B2498-DUP1)		Source: 21B2435-01		Prepared: 2021-02-26, Analyzed: 2021-02-26					
Chlorine, Total	0.93	0.02 mg/L		0.92			1	10	
Chlorine, Free	0.80	0.02 mg/L		0.82			2	20	
Reference (B1B2498-SRM1)		Prepared: 2021-02-26, Analyzed: 2021-02-26							
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 B1C0003									
Blank (B1C0003-BLK1)		Prepared: 2021-03-01, Analyzed: 2021-03-01							
Cyanide, Total	< 0.0020	0.0020 mg/L							

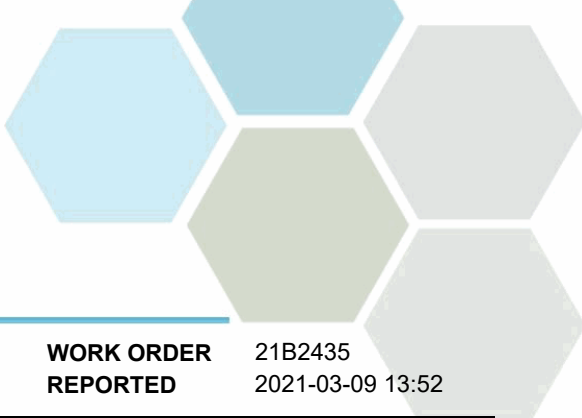


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B1C0003, Continued									
Blank (B1C0003-BLK2)			Prepared: 2021-03-01, Analyzed: 2021-03-01						
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B1C0003-BS1)			Prepared: 2021-03-01, Analyzed: 2021-03-01						
Cyanide, Total	0.0186	0.0020 mg/L	0.0200		93	82-120			
LCS (B1C0003-BS2)			Prepared: 2021-03-01, Analyzed: 2021-03-01						
Cyanide, Total	0.0171	0.0020 mg/L	0.0200		85	82-120			
LCS Dup (B1C0003-BSD1)			Prepared: 2021-03-01, Analyzed: 2021-03-01						
Cyanide, Total	0.0189	0.0020 mg/L	0.0200		94	82-120	1	10	
LCS Dup (B1C0003-BSD2)			Prepared: 2021-03-01, Analyzed: 2021-03-01						
Cyanide, Total	0.0175	0.0020 mg/L	0.0200		87	82-120	2	10	
General Parameters, Batch B1C0009									
Blank (B1C0009-BLK1)			Prepared: 2021-03-01, Analyzed: 2021-03-01						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B1C0009-BS1)			Prepared: 2021-03-01, Analyzed: 2021-03-01						
Ammonia, Total (as N)	0.211	0.050 mg/L	0.200		105	85-115			
General Parameters, Batch B1C0196									
Blank (B1C0196-BLK1)			Prepared: 2021-03-02, Analyzed: 2021-03-02						
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
LCS (B1C0196-BS1)			Prepared: 2021-03-02, Analyzed: 2021-03-02						
Nitritotriacetic Acid	1.01	0.20 mg/L	1.00		101	80-120			
LCS Dup (B1C0196-BSD1)			Prepared: 2021-03-02, Analyzed: 2021-03-02						
Nitritotriacetic Acid	1.03	0.20 mg/L	1.00		103	80-120	2	20	
Matrix Spike (B1C0196-MS1)			Source: 21B2435-01		Prepared: 2021-03-02, Analyzed: 2021-03-02				
Nitritotriacetic Acid	2.16	0.20 mg/L	2.04	< 0.20	106	70-130			
Haloacetic Acids, Batch B1B2561									
Blank (B1B2561-BLK1)			Prepared: 2021-02-27, Analyzed: 2021-03-01						
Monochloroacetic Acid	< 0.0020	0.0020 mg/L							
Monobromoacetic Acid	< 0.0020	0.0020 mg/L							
Dichloroacetic Acid	< 0.0020	0.0020 mg/L							
Trichloroacetic Acid	< 0.0020	0.0020 mg/L							
Dibromoacetic Acid	< 0.0020	0.0020 mg/L							
<i>Surrogate: 2-Bromopropionic Acid</i>	0.0122	mg/L	0.0116		105	70-130			
LCS (B1B2561-BS1)			Prepared: 2021-02-27, Analyzed: 2021-03-01						
Monochloroacetic Acid	0.0563	0.0020 mg/L	0.0566		100	75-117			
Monobromoacetic Acid	0.0379	0.0020 mg/L	0.0380		100	83-113			
Dichloroacetic Acid	0.0558	0.0020 mg/L	0.0558		100	78-112			
Trichloroacetic Acid	0.0185	0.0020 mg/L	0.0172		107	81-110			
Dibromoacetic Acid	0.0187	0.0020 mg/L	0.0188		100	89-112			
<i>Surrogate: 2-Bromopropionic Acid</i>	0.0117	mg/L	0.0116		101	70-130			
LCS Dup (B1B2561-BSD1)			Prepared: 2021-02-27, Analyzed: 2021-03-01						
Monochloroacetic Acid	0.0548	0.0020 mg/L	0.0566		97	75-117	3	30	



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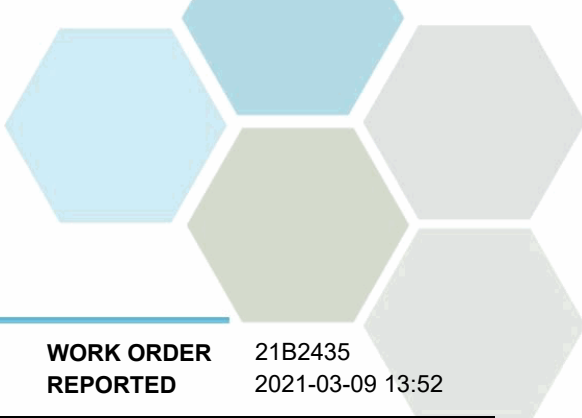
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Haloacetic Acids, Batch B1B2561, Continued									
LCS Dup (B1B2561-BSD1), Continued					Prepared: 2021-02-27, Analyzed: 2021-03-01				
Monobromoacetic Acid	0.0364	0.0020 mg/L	0.0380		96	83-113	4	30	
Dichloroacetic Acid	0.0557	0.0020 mg/L	0.0558		100	78-112	< 1	30	
Trichloroacetic Acid	0.0185	0.0020 mg/L	0.0172		108	81-110	< 1	30	
Dibromoacetic Acid	0.0183	0.0020 mg/L	0.0188		97	89-112	2	30	
Surrogate: 2-Bromopropionic Acid	0.0116	mg/L	0.0116		99	70-130			

Miscellaneous Herbicides, Batch B1C0177

Blank (B1C0177-BLK1)					Prepared: 2021-03-02, Analyzed: 2021-03-02				
Glyphosate	< 0.050	0.050 mg/L							
LCS (B1C0177-BS1)					Prepared: 2021-03-02, Analyzed: 2021-03-02				
Glyphosate	0.142	0.050 mg/L	0.250		57	70-130			SPK
LCS Dup (B1C0177-BSD1)					Prepared: 2021-03-02, Analyzed: 2021-03-02				
Glyphosate	0.133	0.050 mg/L	0.250		53	70-130	7	20	SPK1
Matrix Spike (B1C0177-MS1)			Source: 21B2435-01		Prepared: 2021-03-02, Analyzed: 2021-03-02				
Glyphosate	0.203	0.050 mg/L	0.250	< 0.050	81	60-120			

Pesticides, Herbicides, and Fungicides, Batch B1C0584

Blank (B1C0584-BLK1)					Prepared: 2021-03-05, Analyzed: 2021-03-08				
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							
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							

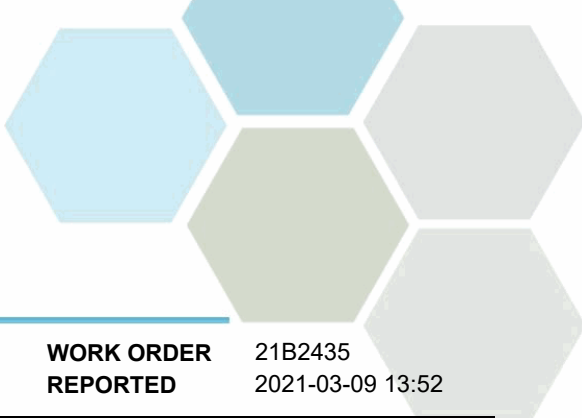


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B1C0584, Continued									
Blank (B1C0584-BLK1), Continued					Prepared: 2021-03-05, Analyzed: 2021-03-08				
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	0.685	µg/L	0.998		69	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.676	µg/L	1.00		68	50-140			
LCS (B1C0584-BS1)					Prepared: 2021-03-05, Analyzed: 2021-03-07				
Alachlor	0.761	0.100 µg/L	1.01		75	65-118			
Aldrin	0.704	0.006 µg/L	1.00		70	58-107			
Atrazine	0.717	0.100 µg/L	1.00		72	61-122			
Atrazine-desethyl	1.04	0.100 µg/L	1.03		101	50-140			
Azinphos-methyl	0.928	0.200 µg/L	1.00		93	53-127			
alpha-BHC	0.711	0.010 µg/L	1.01		70	54-134			
beta-BHC	0.805	0.050 µg/L	1.01		80	58-112			
delta-BHC	0.723	0.050 µg/L	1.00		72	58-119			
gamma-BHC (Lindane)	0.683	0.050 µg/L	1.00		68	59-113			
Bromacil	0.911	0.100 µg/L	1.00		91	52-123			
Bromoxynil	0.883	0.200 µg/L	1.02		87	50-132			
Butachlor	0.835	0.020 µg/L	0.998		84	50-140			
Captan	1.10	0.100 µg/L	1.05		105	63-137			
Chlordane (cis + trans)	1.45	0.050 µg/L	2.01		72	50-140			
Chlorothalonil	0.800	0.050 µg/L	1.01		79	50-110			
Chlorpyrifos	0.810	0.010 µg/L	1.00		81	61-121			
Cyanazine	0.858	0.100 µg/L	1.00		86	57-126			
DDT, Total	5.22	0.010 µg/L	5.04		104	50-140			
Deltamethrin	8.22	0.100 µg/L	10.2		81	50-121			
Diazinon	0.666	0.020 µg/L	1.00		67	52-126			
Dichlorvos	0.734	0.100 µg/L	1.03		71	50-110			
Diclofop-methyl	0.775	0.100 µg/L	0.990		78	58-112			
Dieldrin	0.871	0.010 µg/L	1.00		87	64-112			
Dimethoate	0.774	0.200 µg/L	0.989		78	50-120			
Disulfoton	0.774	0.100 µg/L	1.01		77	50-122			
Diuron	1.16	0.200 µg/L	1.03		113	54-116			
Endosulfan I + II	1.66	0.010 µg/L	2.01		83	50-140			
Endosulfan sulfate	0.940	0.050 µg/L	1.01		93	64-110			
Endrin	0.954	0.020 µg/L	1.01		94	59-123			
Endrin aldehyde	0.828	0.020 µg/L	1.00		83	58-118			
Endrin ketone	0.889	0.020 µg/L	1.01		88	53-114			
Fenchlorphos (Ronnell)	0.748	0.100 µg/L	1.02		73	63-110			
Heptachlor	0.746	0.010 µg/L	1.01		74	58-128			

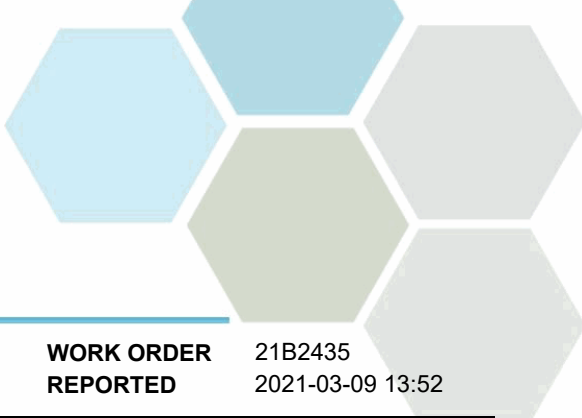


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B1C0584, Continued									
LCS (B1C0584-BS1), Continued					Prepared: 2021-03-05, Analyzed: 2021-03-07				
Heptachlor epoxide	0.739	0.010 µg/L	1.01		73	64-110			
Linuron	1.19	0.050 µg/L	1.02		117	59-140			
Malathion	0.989	0.100 µg/L	1.00		99	61-121			
Methoxychlor	0.854	0.050 µg/L	1.01		85	53-121			
Methyl parathion	0.728	0.100 µg/L	0.998		73	65-114			
Metolachlor	0.858	0.100 µg/L	1.01		85	65-112			
Metribuzin	0.755	0.200 µg/L	1.00		76	53-123			
Parathion	0.885	0.100 µg/L	0.997		89	53-130			
Pentachloronitrobenzene	0.722	0.100 µg/L	1.00		72	54-136			
Permethrin	0.910	0.010 µg/L	1.01		90	50-130			
Phorate	0.678	0.100 µg/L	1.00		68	55-120			
Prometon	0.515	0.300 µg/L	1.00		51	57-124			SPK1
Prometryne	0.663	0.100 µg/L	1.00		66	50-140			
Simazine	0.717	0.200 µg/L	1.01		71	54-119			
Sulfotep	0.791	0.100 µg/L	1.04		76	61-121			
Tebuthiuron	1.03	0.200 µg/L	1.01		102	50-127			
Temephos (Abate)	7.58	0.500 µg/L	10.2		74	67-135			
Terbufos	0.689	0.100 µg/L	0.993		69	51-122			
Triallate	0.799	0.100 µg/L	1.02		78	50-120			
Trifluralin	0.696	0.200 µg/L	1.00		70	52-129			
Surrogate: Tributyl Phosphate	0.789	µg/L	0.998		79	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.732	µg/L	1.00		73	50-140			
LCS Dup (B1C0584-BSD1)					Prepared: 2021-03-05, Analyzed: 2021-03-07				
Alachlor	0.750	0.100 µg/L	1.01		74	65-118	1	30	
Aldrin	0.693	0.006 µg/L	1.00		69	58-107	1	30	
Atrazine	0.711	0.100 µg/L	1.00		71	61-122	< 1	30	
Atrazine-desethyl	1.07	0.100 µg/L	1.03		104	50-140	2	30	
Azinphos-methyl	0.913	0.200 µg/L	1.00		91	53-127	2	30	
alpha-BHC	0.695	0.010 µg/L	1.01		69	54-134	2	30	
beta-BHC	0.788	0.050 µg/L	1.01		78	58-112	2	30	
delta-BHC	0.705	0.050 µg/L	1.00		71	58-119	2	30	
gamma-BHC (Lindane)	0.661	0.050 µg/L	1.00		66	59-113	3	30	
Bromacil	0.873	0.100 µg/L	1.00		87	52-123	4	30	
Bromoxynil	0.804	0.200 µg/L	1.02		79	50-132	9	30	
Butachlor	0.787	0.020 µg/L	0.998		79	50-140	6	30	
Captan	1.03	0.100 µg/L	1.05		99	63-137	6	30	
Chlordane (cis + trans)	1.32	0.050 µg/L	2.01		66	50-140	9	30	
Chlorothalonil	0.792	0.050 µg/L	1.01		78	50-110	1	30	
Chlorpyrifos	0.701	0.010 µg/L	1.00		70	61-121	14	30	
Cyanazine	0.812	0.100 µg/L	1.00		81	57-126	5	30	
DDT, Total	4.68	0.010 µg/L	5.04		93	50-140	11	30	
Deltamethrin	7.91	0.100 µg/L	10.2		78	50-121	4	30	
Diazinon	0.652	0.020 µg/L	1.00		65	52-126	2	30	
Dichlorvos	0.716	0.100 µg/L	1.03		69	50-110	2	30	
Diclofop-methyl	0.686	0.100 µg/L	0.990		69	58-112	12	30	
Dieldrin	0.765	0.010 µg/L	1.00		76	64-112	13	30	
Dimethoate	0.788	0.200 µg/L	0.989		80	50-120	2	30	
Disulfoton	0.739	0.100 µg/L	1.01		73	50-122	5	30	
Diuron	1.14	0.200 µg/L	1.03		110	54-116	2	30	
Endosulfan I + II	1.53	0.010 µg/L	2.01		76	50-140	8	30	
Endosulfan sulfate	0.877	0.050 µg/L	1.01		87	64-110	7	30	
Endrin	0.868	0.020 µg/L	1.01		86	59-123	9	30	
Endrin aldehyde	0.722	0.020 µg/L	1.00		72	58-118	14	30	
Endrin ketone	0.892	0.020 µg/L	1.01		88	53-114	< 1	30	
Fenclorophos (Ronnell)	0.712	0.100 µg/L	1.02		70	63-110	5	30	



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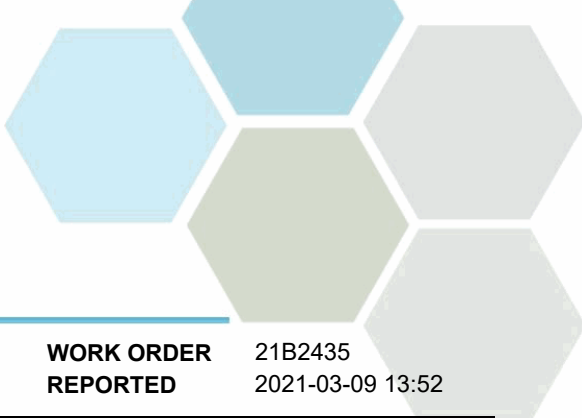
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B1C0584, Continued									
LCS Dup (B1C0584-BSD1), Continued					Prepared: 2021-03-05, Analyzed: 2021-03-07				
Heptachlor	0.592	0.010 µg/L	1.01		59	58-128	23	30	
Heptachlor epoxide	0.607	0.010 µg/L	1.01		60	64-110	20	30	SPK1
Linuron	0.982	0.050 µg/L	1.02		96	59-140	20	30	
Malathion	0.860	0.100 µg/L	1.00		86	61-121	14	30	
Methoxychlor	0.848	0.050 µg/L	1.01		84	53-121	< 1	30	
Methyl parathion	0.724	0.100 µg/L	0.998		73	65-114	< 1	30	
Metolachlor	0.788	0.100 µg/L	1.01		78	65-112	8	30	
Metribuzin	0.763	0.200 µg/L	1.00		76	53-123	1	30	
Parathion	0.819	0.100 µg/L	0.997		82	53-130	8	30	
Pentachloronitrobenzene	0.686	0.100 µg/L	1.00		69	54-136	5	30	
Permethrin	0.876	0.010 µg/L	1.01		87	50-130	4	30	
Phorate	0.641	0.100 µg/L	1.00		64	55-120	5	30	
Prometon	0.633	0.300 µg/L	1.00		63	57-124	21	30	
Prometryne	0.739	0.100 µg/L	1.00		74	50-140	11	30	
Simazine	0.709	0.200 µg/L	1.01		70	54-119	1	30	
Sulfotep	0.756	0.100 µg/L	1.04		73	61-121	5	30	
Tebuthiuron	1.10	0.200 µg/L	1.01		109	50-127	7	30	
Temephos (Abate)	6.64	0.500 µg/L	10.2		65	67-135	13	30	SPK1
Terbufos	0.672	0.100 µg/L	0.993		68	51-122	2	30	
Triallate	0.734	0.100 µg/L	1.02		72	50-120	9	30	
Trifluralin	0.675	0.200 µg/L	1.00		67	52-129	3	30	
Surrogate: Tributyl Phosphate	0.795	µg/L	0.998		80	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.680	µg/L	1.00		68	50-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B1B2524

Blank (B1B2524-BLK1)			Prepared: 2021-02-26, Analyzed: 2021-02-27						
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							
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	4.14	µg/L	4.44		93	50-140			
Surrogate: Naphthalene-d8	4.02	µg/L	4.47		90	50-140			
Surrogate: Perylene-d12	4.78	µg/L	4.47		107	50-140			

LCS (B1B2524-BS1)			Prepared: 2021-02-26, Analyzed: 2021-02-27						
Acenaphthene	4.39	0.050 µg/L	4.44		99	55-137			
Acenaphthylene	4.51	0.200 µg/L	4.44		101	53-140			
Acridine	3.65	0.050 µg/L	4.44		82	50-120			



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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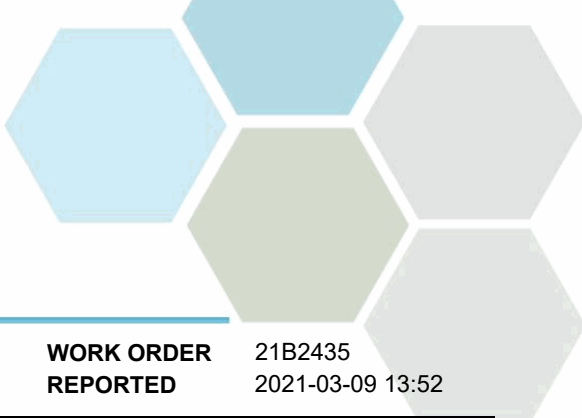
Polycyclic Aromatic Hydrocarbons (PAH), Batch B1B2524, Continued

LCS (B1B2524-BS1), Continued				Prepared: 2021-02-26, Analyzed: 2021-02-27					
Anthracene	4.58	0.010 µg/L	4.44		103	64-130			
Benz(a)anthracene	3.93	0.010 µg/L	4.44		88	57-140			
Benzo(a)pyrene	4.42	0.010 µg/L	4.44		99	63-133			
Benzo(b+j)fluoranthene	9.47	0.050 µg/L	8.89		107	60-129			
Benzo(g,h,i)perylene	4.25	0.050 µg/L	4.44		96	52-139			
Benzo(k)fluoranthene	4.05	0.050 µg/L	4.44		91	50-138			
2-Chloronaphthalene	3.94	0.100 µg/L	4.38		90	50-139			
Chrysene	4.35	0.050 µg/L	4.44		98	59-140			
Dibenz(a,h)anthracene	4.26	0.010 µg/L	4.44		96	53-136			
Fluoranthene	4.22	0.030 µg/L	4.44		95	67-135			
Fluorene	4.27	0.050 µg/L	4.44		96	57-134			
Indeno(1,2,3-cd)pyrene	4.01	0.050 µg/L	4.44		90	52-129			
1-Methylnaphthalene	4.38	0.100 µg/L	4.44		99	50-140			
2-Methylnaphthalene	4.23	0.100 µg/L	4.44		95	50-140			
Naphthalene	4.21	0.200 µg/L	4.44		95	50-140			
Phenanthrene	4.13	0.100 µg/L	4.44		93	61-134			
Pyrene	4.22	0.020 µg/L	4.44		95	66-131			
Quinoline	4.85	0.050 µg/L	4.44		109	50-140			
Surrogate: Acridine-d9	3.64	µg/L	4.44		82	50-140			
Surrogate: Naphthalene-d8	4.26	µg/L	4.47		95	50-140			
Surrogate: Perylene-d12	4.28	µg/L	4.47		96	50-140			

LCS Dup (B1B2524-BS1)				Prepared: 2021-02-26, Analyzed: 2021-02-27					
Acenaphthene	4.48	0.050 µg/L	4.44		101	55-137	2	18	
Acenaphthylene	4.61	0.200 µg/L	4.44		104	53-140	2	20	
Acridine	3.53	0.050 µg/L	4.44		79	50-120	3	30	
Anthracene	4.85	0.010 µg/L	4.44		109	64-130	6	15	
Benz(a)anthracene	4.10	0.010 µg/L	4.44		92	57-140	4	25	
Benzo(a)pyrene	4.66	0.010 µg/L	4.44		105	63-133	5	18	
Benzo(b+j)fluoranthene	9.95	0.050 µg/L	8.89		112	60-129	5	17	
Benzo(g,h,i)perylene	4.49	0.050 µg/L	4.44		101	52-139	5	22	
Benzo(k)fluoranthene	4.27	0.050 µg/L	4.44		96	50-138	5	26	
2-Chloronaphthalene	3.96	0.100 µg/L	4.38		91	50-139	< 1	23	
Chrysene	4.52	0.050 µg/L	4.44		102	59-140	4	23	
Dibenz(a,h)anthracene	4.51	0.010 µg/L	4.44		101	53-136	6	21	
Fluoranthene	4.36	0.030 µg/L	4.44		98	67-135	3	18	
Fluorene	4.39	0.050 µg/L	4.44		99	57-134	3	18	
Indeno(1,2,3-cd)pyrene	4.26	0.050 µg/L	4.44		96	52-129	6	21	
1-Methylnaphthalene	4.47	0.100 µg/L	4.44		101	50-140	2	20	
2-Methylnaphthalene	4.28	0.100 µg/L	4.44		96	50-140	1	21	
Naphthalene	4.26	0.200 µg/L	4.44		96	50-140	1	22	
Phenanthrene	4.20	0.100 µg/L	4.44		94	61-134	2	17	
Pyrene	4.37	0.020 µg/L	4.44		98	66-131	4	19	
Quinoline	5.32	0.050 µg/L	4.44		120	50-140	9	14	
Surrogate: Acridine-d9	4.16	µg/L	4.44		94	50-140			
Surrogate: Naphthalene-d8	4.34	µg/L	4.47		97	50-140			
Surrogate: Perylene-d12	4.50	µg/L	4.47		101	50-140			

Total Metals, Batch B1B2546

Blank (B1B2546-BLK1)				Prepared: 2021-02-27, Analyzed: 2021-02-27					
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							

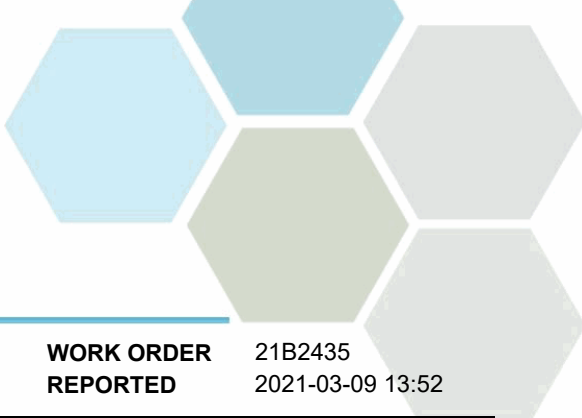


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B1B2546, Continued									
Blank (B1B2546-BLK1), Continued					Prepared: 2021-02-27, Analyzed: 2021-02-27				
Cadmium, total	< 0.000010	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 (B1B2546-BS1)					Prepared: 2021-02-27, Analyzed: 2021-02-27				
Aluminum, total	0.0235	0.0050 mg/L	0.0199		118	80-120			
Antimony, total	0.0208	0.00020 mg/L	0.0200		104	80-120			
Arsenic, total	0.0202	0.00050 mg/L	0.0200		101	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		108	80-120			
Cadmium, total	0.0207	0.000010 mg/L	0.0199		104	80-120			
Calcium, total	1.99	0.20 mg/L	2.02		99	80-120			
Chromium, total	0.0205	0.00050 mg/L	0.0198		103	80-120			
Copper, total	0.0207	0.00040 mg/L	0.0200		104	80-120			
Lead, total	0.0202	0.00020 mg/L	0.0199		102	80-120			
Magnesium, total	2.21	0.010 mg/L	2.02		109	80-120			
Manganese, total	0.0188	0.00020 mg/L	0.0199		94	80-120			
Potassium, total	2.13	0.10 mg/L	2.02		105	80-120			
Selenium, total	0.0212	0.00050 mg/L	0.0200		106	80-120			
Silver, total	0.0205	0.000050 mg/L	0.0200		102	80-120			
Sodium, total	2.17	0.10 mg/L	2.02		107	80-120			
Strontium, total	0.0201	0.0010 mg/L	0.0200		101	80-120			
Uranium, total	0.0198	0.000020 mg/L	0.0200		99	80-120			
Zinc, total	0.0222	0.0040 mg/L	0.0200		111	80-120			
Reference (B1B2546-SRM1)					Prepared: 2021-02-27, Analyzed: 2021-02-27				
Aluminum, total	0.304	0.0050 mg/L	0.299		102	70-130			
Antimony, total	0.0522	0.00020 mg/L	0.0517		101	70-130			
Arsenic, total	0.128	0.00050 mg/L	0.119		108	70-130			
Barium, total	0.807	0.0050 mg/L	0.801		101	70-130			
Boron, total	4.18	0.0500 mg/L	4.11		102	70-130			
Cadmium, total	0.0513	0.000010 mg/L	0.0503		102	70-130			
Calcium, total	9.32	0.20 mg/L	10.7		87	70-130			
Chromium, total	0.255	0.00050 mg/L	0.250		102	70-130			
Copper, total	0.500	0.00040 mg/L	0.487		103	70-130			
Iron, total	0.500	0.010 mg/L	0.504		99	70-130			
Lead, total	0.267	0.00020 mg/L	0.278		96	70-130			
Magnesium, total	4.06	0.010 mg/L	3.59		113	70-130			
Manganese, total	0.103	0.00020 mg/L	0.111		93	70-130			
Potassium, total	6.43	0.10 mg/L	5.89		109	70-130			
Selenium, total	0.130	0.00050 mg/L	0.120		108	70-130			
Sodium, total	9.40	0.10 mg/L	8.71		108	70-130			
Strontium, total	0.392	0.0010 mg/L	0.393		100	70-130			
Uranium, total	0.0344	0.000020 mg/L	0.0344		100	70-130			
Zinc, total	2.66	0.0040 mg/L	2.50		107	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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Total Metals, Batch B1B2546, Continued

Total Metals, Batch B1B2555

Blank (B1B2555-BLK1)			Prepared: 2021-02-27, Analyzed: 2021-02-27						
Mercury, total	< 0.000010	0.000010 mg/L							
Reference (B1B2555-SRM1)			Prepared: 2021-02-27, Analyzed: 2021-02-27						
Mercury, total	0.00542	0.000010 mg/L	0.00581		93	70-130			

Volatile Organic Compounds (VOC), Batch B1B2646

Blank (B1B2646-BLK1)			Prepared: 2021-02-27, Analyzed: 2021-02-27						
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	0.0316	mg/L	0.0265		119	70-130			
Surrogate: 4-Bromofluorobenzene	0.0197	mg/L	0.0249		79	70-130			

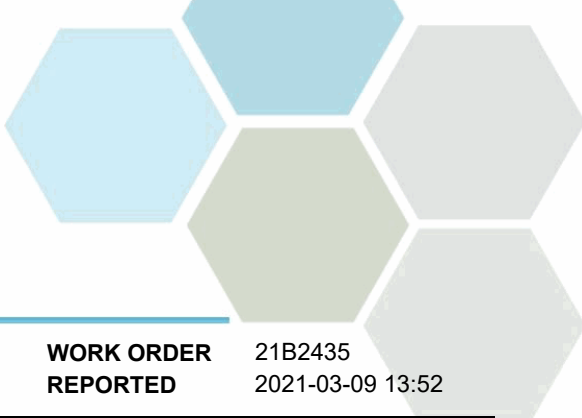
LCS (B1B2646-BS1)			Prepared: 2021-02-27, Analyzed: 2021-02-27						
Bromodichloromethane	0.0198	0.0010 mg/L	0.0200		99	70-130			
Bromoform	0.0205	0.0010 mg/L	0.0201		102	70-130			
Chloroform	0.0203	0.0010 mg/L	0.0201		101	70-130			
Dibromochloromethane	0.0195	0.0010 mg/L	0.0202		96	70-130			
Surrogate: Toluene-d8	0.0295	mg/L	0.0265		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.0230	mg/L	0.0249		92	70-130			

Duplicate (B1B2646-DUP1)			Source: 21B2435-04		Prepared: 2021-02-27, Analyzed: 2021-02-27				
Bromodichloromethane	0.0012	0.0010 mg/L		0.0012					23
Bromoform	< 0.0010	0.0010 mg/L		< 0.0010					23
Chloroform	0.0216	0.0010 mg/L		0.0205			5		22
Dibromochloromethane	0.0012	0.0010 mg/L		0.0013					28
Surrogate: Toluene-d8	0.0297	mg/L	0.0265		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.0176	mg/L	0.0249		70	70-130			

Matrix Spike (B1B2646-MS1)			Source: 21B2435-04		Prepared: 2021-02-27, Analyzed: 2021-02-27				
Bromodichloromethane	0.0203	0.0010 mg/L	0.0200	0.0012	96	70-130			
Bromoform	0.0189	0.0010 mg/L	0.0201	< 0.0010	94	70-130			
Chloroform	0.0377	0.0010 mg/L	0.0201	0.0205	86	70-130			
Dibromochloromethane	0.0203	0.0010 mg/L	0.0202	0.0013	94	70-130			
Surrogate: Toluene-d8	0.0295	mg/L	0.0265		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.0225	mg/L	0.0249		90	70-130			

Volatile Organic Compounds (VOC), Batch B1C0175

Blank (B1C0175-BLK1)			Prepared: 2021-03-02, Analyzed: 2021-03-02						
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	1.9	1.0 µg/L							BLK
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							

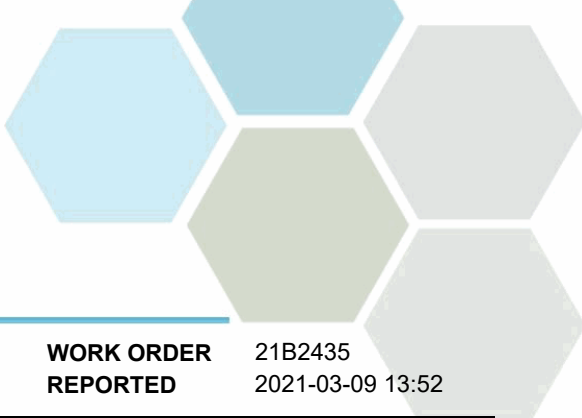


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B1C0175, Continued									
Blank (B1C0175-BLK1), Continued					Prepared: 2021-03-02, Analyzed: 2021-03-02				
1,3-Dichlorobenzene	< 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	28.4	µg/L	26.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	20.2	µg/L	24.9		81	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	18.9	µg/L	25.5		74	70-130			
LCS (B1C0175-BS1)					Prepared: 2021-03-02, Analyzed: 2021-03-02				
Benzene	19.8	0.5 µg/L	20.0		99	70-130			
Bromodichloromethane	19.8	1.0 µg/L	20.0		99	70-130			
Bromoform	17.7	1.0 µg/L	20.1		88	70-130			
Carbon tetrachloride	17.1	0.5 µg/L	20.2		85	70-130			
Chlorobenzene	20.2	1.0 µg/L	20.1		101	70-130			
Chloroethane	25.5	2.0 µg/L	20.0		127	60-140			
Chloroform	21.9	1.0 µg/L	20.1		109	70-130			
Dibromochloromethane	18.6	1.0 µg/L	20.2		92	70-130			
1,2-Dibromoethane	20.1	0.3 µg/L	20.0		100	70-130			
Dibromomethane	20.0	1.0 µg/L	20.0		100	70-130			
1,2-Dichlorobenzene	20.4	0.5 µg/L	20.1		101	70-130			
1,3-Dichlorobenzene	20.6	1.0 µg/L	20.1		102	70-130			
1,4-Dichlorobenzene	22.0	1.0 µg/L	20.1		110	70-130			
1,1-Dichloroethane	21.3	1.0 µg/L	20.1		106	70-130			
1,2-Dichloroethane	21.0	1.0 µg/L	20.1		105	70-130			
1,1-Dichloroethylene	21.6	1.0 µg/L	20.1		108	70-130			
cis-1,2-Dichloroethylene	21.2	1.0 µg/L	20.0		106	70-130			
trans-1,2-Dichloroethylene	23.0	1.0 µg/L	20.0		115	70-130			
Dichloromethane	22.5	3.0 µg/L	20.1		112	70-130			
1,2-Dichloropropane	20.3	1.0 µg/L	20.1		101	70-130			
1,3-Dichloropropene (cis + trans)	38.6	1.0 µg/L	40.0		96	70-130			
Ethylbenzene	16.7	1.0 µg/L	20.0		84	70-130			
Methyl tert-butyl ether	27.4	1.0 µg/L	20.0		137	70-130			SPK
Styrene	16.7	1.0 µg/L	20.0		83	70-130			
1,1,2,2-Tetrachloroethane	19.6	0.5 µg/L	20.1		97	70-130			
Tetrachloroethylene	20.9	1.0 µg/L	20.1		104	70-130			
Toluene	20.4	1.0 µg/L	20.0		102	70-130			
1,1,1-Trichloroethane	18.7	1.0 µg/L	20.0		93	70-130			
1,1,2-Trichloroethane	20.4	1.0 µg/L	20.1		102	70-130			

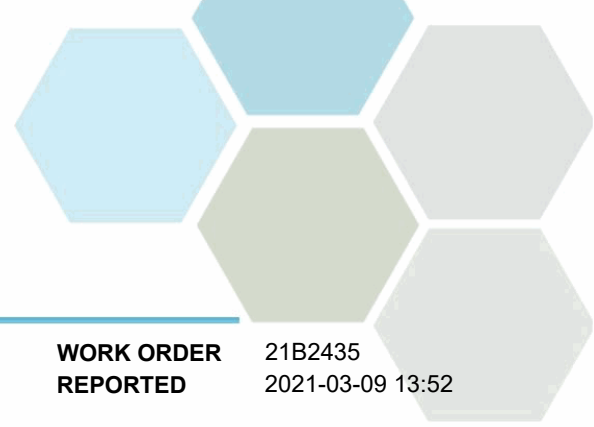


APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B1C0175, Continued									
LCS (B1C0175-BS1), Continued					Prepared: 2021-03-02, Analyzed: 2021-03-02				
Trichloroethylene	22.1	1.0 µg/L	20.1		110	70-130			
Trichlorofluoromethane	25.7	1.0 µg/L	20.0		128	60-140			
Vinyl chloride	35.9	1.0 µg/L	20.0		180	60-140			SPK
Xylenes (total)	53.9	2.0 µg/L	60.0		90	70-130			
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	23.8	µg/L	25.5		93	70-130			
Matrix Spike (B1C0175-MS2)					Source: 21B2435-01 Prepared: 2021-03-03, Analyzed: 2021-03-03				
Benzene	19.7	0.5 µg/L	20.0	< 0.5	99	70-130			
Bromodichloromethane	26.9	1.0 µg/L	20.0	4.2	113	70-130			
Bromoform	23.1	1.0 µg/L	20.1	1.8	106	70-130			
Carbon tetrachloride	18.1	0.5 µg/L	20.2	< 0.5	90	70-130			
Chlorobenzene	19.8	1.0 µg/L	20.1	< 1.0	98	70-130			
Chloroethane	27.7	2.0 µg/L	20.0	< 2.0	139	60-140			
Chloroform	55.6	1.0 µg/L	20.1	36.3	96	70-130			
Dibromochloromethane	22.6	1.0 µg/L	20.2	1.3	106	70-130			
1,2-Dibromoethane	21.7	0.3 µg/L	20.0	< 0.3	108	70-130			
Dibromomethane	25.4	1.0 µg/L	20.0	< 1.0	127	70-130			
1,2-Dichlorobenzene	23.1	0.5 µg/L	20.1	< 0.5	115	70-130			
1,3-Dichlorobenzene	21.2	1.0 µg/L	20.1	< 1.0	106	70-130			
1,4-Dichlorobenzene	23.6	1.0 µg/L	20.1	< 1.0	117	70-130			
1,1-Dichloroethane	21.4	1.0 µg/L	20.1	< 1.0	107	70-130			
1,2-Dichloroethane	25.2	1.0 µg/L	20.1	< 1.0	125	70-130			
1,1-Dichloroethylene	18.3	1.0 µg/L	20.1	< 1.0	91	70-130			
cis-1,2-Dichloroethylene	20.0	1.0 µg/L	20.0	< 1.0	100	70-130			
trans-1,2-Dichloroethylene	21.7	1.0 µg/L	20.0	< 1.0	109	70-130			
Dichloromethane	24.4	3.0 µg/L	20.1	< 3.0	121	70-130			
1,2-Dichloropropane	21.7	1.0 µg/L	20.1	< 1.0	108	70-130			
1,3-Dichloropropane (cis + trans)	20.8	1.0 µg/L	40.0	< 1.0	52	70-130			MS1
Ethylbenzene	8.1	1.0 µg/L	20.0	< 1.0	40	70-130			MS1
Methyl tert-butyl ether	20.0	1.0 µg/L	20.0	< 1.0	100	70-130			
Styrene	< 1.0	1.0 µg/L	20.0	< 1.0		70-130			MS1
1,1,2,2-Tetrachloroethane	27.2	0.5 µg/L	20.1	< 0.5	135	70-130			SPK
Tetrachloroethylene	16.9	1.0 µg/L	20.1	< 1.0	84	70-130			
Toluene	8.4	1.0 µg/L	20.0	< 1.0	42	70-130			MS1
1,1,1-Trichloroethane	18.2	1.0 µg/L	20.0	< 1.0	91	70-130			
1,1,2-Trichloroethane	23.4	1.0 µg/L	20.1	< 1.0	117	70-130			
Trichloroethylene	22.0	1.0 µg/L	20.1	< 1.0	110	70-130			
Trichlorofluoromethane	26.7	1.0 µg/L	20.0	< 1.0	133	60-140			
Vinyl chloride	18.2	1.0 µg/L	20.0	< 1.0	91	60-140			
Xylenes (total)	8.9	2.0 µg/L	60.0	< 2.0	15	70-130			MS1
Surrogate: Toluene-d8	11.1	µg/L	26.5		42	70-130			
Surrogate: 4-Bromofluorobenzene	23.7	µg/L	24.9		95	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	26.8	µg/L	25.5		105	70-130			



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QC Qualifiers:

- BLK Analyte concentration in the Method Blank is above the Reporting Limit (RL).
- MS1 The matrix spike recovery was outside of control limits due to a matrix effect and/or interference.
- S03 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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.