

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 25H2563

RECEIVED / TEMP 2025-08-19 09:45 / 17.4°C

REPORTED 2025-09-03 15:23

COC NUMBER no #

Introduction:

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

Big Picture Sidekicks



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

We've Got Chemistry



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

Ahead of the Curve



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

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
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If you have any questions or concerns, please contact me at hhannaoui@caro.ca

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TEST RESULTS

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

WORK ORDER REPORTED 25H2563
2025-09-03 15:23

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated (25H2563-01) Matrix: Water Sampled: 2025-08-18						
Acid Herbicides						
2,4-D	< 0.10	MAC = 100	0.10	µg/L	2025-08-26	
2,4-DB	< 0.10	N/A	0.10	µg/L	2025-08-26	
Dichlorprop (2,4-DP)	< 0.10	N/A	0.10	µg/L	2025-08-26	
Fenoprop	< 0.10	N/A	0.10	µg/L	2025-08-26	
MCPA	< 0.02	MAC = 350	0.02	µg/L	2025-08-26	
MCPB	< 0.10	N/A	0.10	µg/L	2025-08-26	
2,4,5-T	< 0.10	N/A	0.10	µg/L	2025-08-26	
MCP	< 0.10	N/A	0.10	µg/L	2025-08-26	
Acifluorfen	< 0.10	N/A	0.10	µg/L	2025-08-26	
Bentazon	< 0.10	N/A	0.10	µg/L	2025-08-26	
Chloramben	< 0.10	N/A	0.10	µg/L	2025-08-26	
Dicamba	< 0.10	MAC = 110	0.10	µg/L	2025-08-26	
Triclopyr	< 0.10	N/A	0.10	µg/L	2025-08-26	
Picloram	< 0.10	N/A	0.10	µg/L	2025-08-26	
Clopyralid	< 0.10	N/A	0.10	µg/L	2025-08-26	
Bromoxynil	< 0.10	MAC = 30	0.10	µg/L	2025-08-26	
Dinoseb	< 0.10	N/A	0.10	µg/L	2025-08-26	
Anions						
Bromate	< 0.005	MAC = 0.01	0.005	mg/L	2025-08-26	
Chloride	7.72	AO ≤ 250	0.50	mg/L	2025-08-25	
Fluoride	0.14	MAC = 1.5	0.10	mg/L	2025-08-25	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	2025-08-25	HT1
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2025-08-25	HT1
Sulfate	45.4	AO ≤ 500	1.0	mg/L	2025-08-25	
Calculated Parameters						
Chloramines	0.150	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	0.0760	MAC = 0.1	0.0130	mg/L	N/A	
Ion Balance	96.6	N/A		%	N/A	
Hardness, Total (as CaCO ₃)	176	None Required	0.541	mg/L	N/A	
Nitrate+Nitrite (as N)	< 0.0500	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	203	AO ≤ 500	2.00	mg/L	N/A	
Carbamates						
Aldicarb	< 0.0010	N/A	0.0010	mg/L	2025-09-03	
Bendiocarb	< 0.0010	N/A	0.0010	mg/L	2025-09-03	
Carbaryl	< 0.0010	N/A	0.0010	mg/L	2025-09-03	
Carbofuran	< 0.0010	N/A	0.0010	mg/L	2025-09-03	
Chlorinated Phenols						
2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2025-08-26	
3 & 4-Chlorophenol	< 0.10	N/A	0.10	µg/L	2025-08-26	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2025-08-26	

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Treated (25H2563-01) | Matrix: Water | Sampled: 2025-08-18, Continued

Chlorinated Phenols, Continued

2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-08-26	
2,4 & 2,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-08-26	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-08-26	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-08-26	
3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-08-26	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-08-26	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-08-26	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-08-26	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-08-26	
2,4,6-Trichlorophenol	< 0.50	MAC = 5	0.50	µg/L	2025-08-26	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-08-26	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2025-08-26	
2,3,4,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2025-08-26	
Pentachlorophenol	< 0.50	MAC = 60	0.50	µg/L	2025-08-26	
Surrogate: 2,4-Dibromophenol	84		60-130	%	2025-08-26	
Surrogate: 2,4,6-Tribromophenol	85		60-130	%	2025-08-26	
Surrogate: Phenol-d6	104		70-130	%	2025-08-26	

General Parameters

Alkalinity, Total (as CaCO ₃)	136	N/A	2.0	mg/L	2025-08-21	
Bicarbonate (HCO ₃)	165	N/A	2.5	mg/L	2025-08-21	
Carbonate (CO ₃)	< 2.0	N/A	2.0	mg/L	2025-08-21	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	2025-08-21	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-08-20	
Carbon, Total Organic	3.21	N/A	0.50	mg/L	2025-08-22	
Chlorine, Total	0.85	None Required	0.02	mg/L	2025-08-21	HT2
Chlorine, Free	0.70	N/A	0.02	mg/L	2025-08-21	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2025-08-20	
Conductivity (EC)	362	N/A	2.0	µS/cm	2025-08-21	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2025-08-22	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	2025-08-21	
pH	7.75	7.0-10.5	0.10	pH units	2025-08-21	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2025-08-21	
Turbidity	0.40	OG < 1	0.10	NTU	2025-08-20	

Microbiological Parameters

Microcystin, total	< 0.05	MAC = 1.5	0.05	µg/L	2025-08-20	
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Miscellaneous Herbicides

Diquat	< 0.0100	MAC = 0.05	0.0100	mg/L	2025-08-25	
Paraquat	< 0.0050	N/A	0.0050	mg/L	2025-08-25	
Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	2025-08-27	

Miscellaneous Organics

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<i>Miscellaneous Organics, Continued</i>						
N-Nitrosodimethylamine	< 0.000009	MAC = 0.00004	0.000009	mg/L	2025-08-27	
<i>Pesticides, Herbicides, and Fungicides</i>						
Alachlor	< 0.100	N/A	0.100	µg/L	2025-08-29	
Aldrin	< 0.006	N/A	0.006	µg/L	2025-08-29	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2025-08-29	
Azinphos-methyl	< 0.200	N/A	0.200	µg/L	2025-08-29	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2025-08-29	
beta-BHC	< 0.050	N/A	0.050	µg/L	2025-08-29	
delta-BHC	< 0.050	N/A	0.050	µg/L	2025-08-29	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2025-08-29	
Bromacil	< 0.100	N/A	0.100	µg/L	2025-08-29	
Bromoxynil	< 0.200	MAC = 30	0.200	µg/L	2025-08-29	
Butachlor	< 0.020	N/A	0.020	µg/L	2025-08-29	
Captan	< 0.100	N/A	0.100	µg/L	2025-08-29	
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2025-08-29	
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2025-08-29	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2025-08-29	
Cyanazine	< 0.100	N/A	0.100	µg/L	2025-08-29	
DDT, Total	< 0.010	N/A	0.010	µg/L	2025-08-29	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2025-08-29	
Diazinon	< 0.020	N/A	0.020	µg/L	2025-08-29	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2025-08-29	
Diclofop-methyl	< 0.100	N/A	0.100	µg/L	2025-08-29	
Dieldrin	< 0.010	N/A	0.010	µg/L	2025-08-29	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2025-08-29	
Disulfoton	< 0.100	N/A	0.100	µg/L	2025-08-29	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2025-08-29	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2025-08-29	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2025-08-29	
Endrin	< 0.020	N/A	0.020	µg/L	2025-08-29	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2025-08-29	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2025-08-29	
Fenchlorphos (Ronnel)	< 0.100	N/A	0.100	µg/L	2025-08-29	
Heptachlor	< 0.010	N/A	0.010	µg/L	2025-08-29	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2025-08-29	
Linuron	< 0.050	N/A	0.050	µg/L	2025-08-29	
Malathion	< 0.100	MAC = 290	0.100	µg/L	2025-08-29	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2025-08-29	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2025-08-29	
Metolachlor	< 0.100	N/A	0.100	µg/L	2025-08-29	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2025-08-29	
Parathion	< 0.100	N/A	0.100	µg/L	2025-08-29	

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Treated (25H2563-01) | Matrix: Water | Sampled: 2025-08-18, Continued

Pesticides, Herbicides, and Fungicides, Continued

Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2025-08-29	
Permethrin	< 0.010	N/A	0.010	µg/L	2025-08-29	
Phorate	< 0.100	N/A	0.100	µg/L	2025-08-29	
Prometon	< 0.300	N/A	0.300	µg/L	2025-08-29	
Prometryne	< 0.100	N/A	0.100	µg/L	2025-08-29	
Simazine	< 0.200	N/A	0.200	µg/L	2025-08-29	
Sulfotep	< 0.100	N/A	0.100	µg/L	2025-08-29	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2025-08-29	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2025-08-29	
Terbufos	< 0.100	N/A	0.100	µg/L	2025-08-29	
Triallate	< 0.100	N/A	0.100	µg/L	2025-08-29	
Trifluralin	< 0.200	N/A	0.200	µg/L	2025-08-29	
Surrogate: Tributyl Phosphate	111		50-140	%	2025-08-29	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	N/A	0.050	µg/L	2025-08-28	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2025-08-28	
Acridine	< 0.050	N/A	0.050	µg/L	2025-08-28	
Anthracene	< 0.010	N/A	0.010	µg/L	2025-08-28	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2025-08-28	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2025-08-28	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2025-08-28	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2025-08-28	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2025-08-28	
2-Chloronaphthalene	< 0.100	N/A	0.100	µg/L	2025-08-28	
Chrysene	< 0.050	N/A	0.050	µg/L	2025-08-28	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2025-08-28	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2025-08-28	
Fluorene	< 0.050	N/A	0.050	µg/L	2025-08-28	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2025-08-28	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2025-08-28	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2025-08-28	
Naphthalene	< 0.200	N/A	0.200	µg/L	2025-08-28	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2025-08-28	
Pyrene	< 0.020	N/A	0.020	µg/L	2025-08-28	
Quinoline	< 0.090	N/A	0.050	µg/L	2025-08-28	RA1
Surrogate: Naphthalene-d8	93		50-140	%	2025-08-28	
Surrogate: Perylene-d12	101		50-140	%	2025-08-28	

Total Metals

Aluminum, total	0.0384	OG < 0.1	0.0050	mg/L	2025-08-22	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-08-22	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2025-08-22	
Barium, total	0.101	MAC = 2	0.0050	mg/L	2025-08-22	

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Treated (25H2563-01) | Matrix: Water | Sampled: 2025-08-18, Continued

Total Metals, Continued

Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-08-22	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2025-08-22	
Calcium, total	47.0	None Required	0.20	mg/L	2025-08-22	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-08-22	
Copper, total	0.00058	MAC = 2	0.00040	mg/L	2025-08-22	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-08-22	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-08-22	
Magnesium, total	14.1	None Required	0.010	mg/L	2025-08-22	
Manganese, total	0.00059	MAC = 0.12	0.00020	mg/L	2025-08-22	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2025-08-24	
Potassium, total	0.91	N/A	0.10	mg/L	2025-08-22	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-08-22	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2025-08-22	
Sodium, total	5.09	AO ≤ 200	0.10	mg/L	2025-08-22	
Strontium, total	0.318	MAC = 7	0.0010	mg/L	2025-08-22	
Uranium, total	0.000128	MAC = 0.02	0.000020	mg/L	2025-08-22	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-08-22	

Volatile Organic Compounds (VOC)

Benzene	< 0.5	MAC = 5	0.5	µg/L	2025-08-21	
Bromodichloromethane	1.7	N/A	1.0	µg/L	2025-08-21	
Bromoform	< 1.0	N/A	1.0	µg/L	2025-08-21	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2025-08-21	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2025-08-21	
Chloroethane	< 2.0	N/A	2.0	µg/L	2025-08-21	
Chloroform	74.3	N/A	1.0	µg/L	2025-08-21	
Dibromochloromethane	< 1.0	N/A	1.0	µg/L	2025-08-21	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2025-08-21	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2025-08-21	
1,2-Dichlorobenzene	< 0.5	N/A	0.5	µg/L	2025-08-21	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2025-08-21	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2025-08-21	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2025-08-21	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2025-08-21	
1,1-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2025-08-21	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2025-08-21	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2025-08-21	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2025-08-21	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2025-08-21	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2025-08-21	
Ethylbenzene	< 1.0	MAC = 140	1.0	µg/L	2025-08-21	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2025-08-21	
Styrene	< 1.0	N/A	1.0	µg/L	2025-08-21	



TEST RESULTS

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Treated (25H2563-01) | Matrix: Water | Sampled: 2025-08-18, Continued

Volatile Organic Compounds (VOC), Continued

1,1,2,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2025-08-21	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2025-08-21	
Toluene	< 0.5	MAC = 60	0.5	µg/L	2025-08-21	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2025-08-21	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2025-08-21	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2025-08-21	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2025-08-21	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2025-08-21	
Xylenes (total)	< 2.0	MAC = 90	2.0	µg/L	2025-08-21	
Surrogate: Toluene-d8	108		70-130	%	2025-08-21	
Surrogate: 4-Bromofluorobenzene	103		70-130	%	2025-08-21	

Sample Qualifiers:

HT1	The sample was prepared and/or analyzed past the recommended holding time.
HT2	The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
RA1	The Reporting Limit for this sample has been raised due to matrix interference.

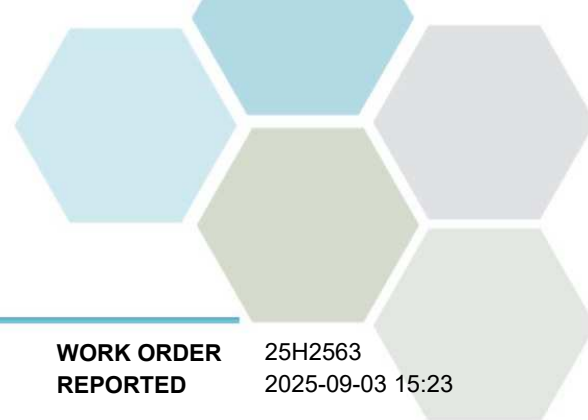
APPENDIX 1: SUPPORTING INFORMATION

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Analysis Description	Method Ref.	Technique	Accredited	Location
Acid Herbicides in Water in Water	In-House	N/A	✓	Richmond
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Edmonton
Ammonia, Total in Water	SM 4500-NH3 D* (2021)	Ion Selective Electrode	✓	Edmonton
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Edmonton
Bromate in Water	SM 4110 B (2020)	Ion Chromatography	✓	Sublet
Carbamates in Water	EPA 531.2*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	✓	Richmond
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2021)	Colorimetry (DPD)	✓	Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2021)	Colorimetry (DPD)	✓	Edmonton
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Edmonton
Conductivity in Water	SM 2510 B (2021)	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
Diquat/Paraquat in Water	EPA 549.2*	Liquid-Solid Extraction and HPLC-DAD	✓	Richmond
Glyphosate in Water	EPA 547*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	✓	Richmond
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Ion Balance in Water	SM 2340 B (2021)	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
Nitrate+Nitrite in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Nitritotriacetic Acid in Water	EPA 430.1	Manual Colorimetry (Zinc-Zincon)	✓	Edmonton
N-Nitrosodimethylamine in Water	In-House	N/A	✓	Sublet
Pesticides in Water	EPA 3510C* / EPA 8270D*	Liquid-Liquid DCM Extraction (B/N) / GC-MSD (SIM)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Edmonton
Phenols, Chlorinated in Water	EPA 3510C* / EPA 8270D	Liquid-Liquid DCM Extraction (Acidic) / GC-MSD (SIM)	✓	Richmond
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MSD (SIM)		Edmonton
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E	✓	N/A
Sulfide, Total in Water	SM 4500-S2 D* (2021)	Colorimetry (Methylene Blue)	✓	Edmonton
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Edmonton
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Edmonton

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



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Glossary of Terms:

RL	Reporting Limit (default)
%	Percent
<	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 samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any liability is limited to the cost of analysis. CARO will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Results in **red** indicate values above the regulatory limits where these have been included. 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: hhannaoui@caro.ca

Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.

APPENDIX 2: QUALITY CONTROL RESULTS

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

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

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

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Acid Herbicides, Batch B5H4589

Blank (B5H4589-BLK1)			Prepared: 2025-08-26, Analyzed: 2025-08-26						
2,4-D	< 0.10	0.10 µg/L							
2,4-DB	< 0.10	0.10 µg/L							
Dichlorprop (2,4-DP)	< 0.10	0.10 µg/L							
Fenoprop	< 0.10	0.10 µg/L							
MCPA	< 0.02	0.02 µg/L							
MCPB	< 0.10	0.10 µg/L							
2,4,5-T	< 0.10	0.10 µg/L							
MCP	< 0.10	0.10 µg/L							
Acifluorfen	< 0.10	0.10 µg/L							
Bentazon	< 0.10	0.10 µg/L							
Chloramben	< 0.10	0.10 µg/L							
Dicamba	< 0.10	0.10 µg/L							
Triclopyr	< 0.10	0.10 µg/L							
Picloram	< 0.10	0.10 µg/L							
Clpyralid	< 0.10	0.10 µg/L							
Bromoxynil	< 0.10	0.10 µg/L							
Dinoseb	< 0.10	0.10 µg/L							

LCS (B5H4589-BS1)			Prepared: 2025-08-26, Analyzed: 2025-08-26						
2,4-D	5.18	0.10 µg/L	5.05		103	75-125			
2,4-DB	5.38	0.10 µg/L	5.00		108	70-130			
Dichlorprop (2,4-DP)	5.12	0.10 µg/L	5.05		101	75-125			
Fenoprop	4.93	0.10 µg/L	5.00		99	70-130			
MCPA	4.93	0.02 µg/L	5.00		99	80-120			
MCPB	4.64	0.10 µg/L	5.00		93	70-130			
2,4,5-T	5.06	0.10 µg/L	5.05		100	75-125			
MCP	5.08	0.10 µg/L	4.98		102	75-125			
Acifluorfen	4.86	0.10 µg/L	5.00		97	70-130			
Bentazon	4.86	0.10 µg/L	5.00		97	70-130			
Chloramben	5.02	0.10 µg/L	4.99		101	75-125			
Dicamba	5.16	0.10 µg/L	5.00		103	70-130			
Triclopyr	5.07	0.10 µg/L	5.00		101	75-125			
Picloram	4.91	0.10 µg/L	5.00		98	70-130			
Clpyralid	5.10	0.10 µg/L	5.00		102	70-130			
Bromoxynil	5.15	0.10 µg/L	5.00		103	70-130			
Dinoseb	5.18	0.10 µg/L	5.00		104	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Acid Herbicides, Batch B5H4589, Continued									
LCS Dup (B5H4589-BSD1)				Prepared: 2025-08-26, Analyzed: 2025-08-26					
2,4-D	5.23	0.10 µg/L	5.05		104	75-125	1	30	
2,4-DB	5.11	0.10 µg/L	5.00		102	70-130	5	30	
Dichlorprop (2,4-DP)	5.17	0.10 µg/L	5.05		102	75-125	< 1	30	
Fenoprop	4.98	0.10 µg/L	5.00		100	70-130	1	30	
MCPA	5.02	0.02 µg/L	5.00		100	80-120	2	30	
MCPB	4.93	0.10 µg/L	5.00		99	70-130	6	30	
2,4,5-T	5.19	0.10 µg/L	5.05		103	75-125	3	30	
MCP	5.23	0.10 µg/L	4.98		105	75-125	3	30	
Acifluorfen	5.11	0.10 µg/L	5.00		102	70-130	5	30	
Bentazon	4.92	0.10 µg/L	5.00		98	70-130	1	30	
Chloramben	5.16	0.10 µg/L	4.99		103	75-125	3	30	
Dicamba	5.62	0.10 µg/L	5.00		112	70-130	9	30	
Triclopyr	5.22	0.10 µg/L	5.00		104	75-125	3	30	
Picloram	5.16	0.10 µg/L	5.00		103	70-130	5	30	
Clopyralid	5.44	0.10 µg/L	5.00		109	70-130	6	30	
Bromoxynil	5.06	0.10 µg/L	5.00		101	70-130	2	30	
Dinoseb	5.38	0.10 µg/L	5.00		108	70-130	4	30	
Anions, Batch B5H4240									
Blank (B5H4240-BLK1)				Prepared: 2025-08-25, Analyzed: 2025-08-25					
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 (B5H4240-BS1)				Prepared: 2025-08-25, Analyzed: 2025-08-25					
Chloride	10.4	0.50 mg/L	10.0		104	90-110			
Fluoride	0.97	0.10 mg/L	1.00		97	85-115			
Nitrate (as N)	1.06	0.050 mg/L	1.00		106	92-108			
Nitrite (as N)	0.534	0.050 mg/L	0.500		107	85-115			
Sulfate	52.4	1.0 mg/L	50.0		105	90-110			
Duplicate (B5H4240-DUP1)				Source: 25H2563-01	Prepared: 2025-08-25, Analyzed: 2025-08-25				
Chloride	7.86	0.50 mg/L		7.72			2	7	
Fluoride	< 0.10	0.10 mg/L		0.14				15	
Nitrate (as N)	< 0.050	0.050 mg/L		< 0.050				12	
Nitrite (as N)	< 0.050	0.050 mg/L		< 0.050				18	
Sulfate	46.0	1.0 mg/L		45.4			1	8	
Matrix Spike (B5H4240-MS1)				Source: 25H2563-01	Prepared: 2025-08-25, Analyzed: 2025-08-25				
Chloride	21.8	0.50 mg/L	10.0	7.72	141	85-115			MS1
Fluoride	1.23	0.10 mg/L	1.00	0.14	109	85-115			
Nitrate (as N)	1.26	0.050 mg/L	1.00	< 0.050	126	87-111			MS1
Nitrite (as N)	0.511	0.050 mg/L	0.500	< 0.050	102	81-127			
Sulfate	95.5	1.0 mg/L	50.0	45.4	100	85-115			
Matrix Spike Dup (B5H4240-MSD1)				Source: 25H2563-01	Prepared: 2025-08-25, Analyzed: 2025-08-25				
Chloride	21.9	0.50 mg/L	10.0	7.72	142	85-115	< 1		MS1
Fluoride	1.22	0.10 mg/L	1.00	0.14	108	85-115	< 1		
Nitrate (as N)	1.25	0.050 mg/L	1.00	< 0.050	125	87-111	1		MS1
Nitrite (as N)	0.519	0.050 mg/L	0.500	< 0.050	104	81-127	2		
Sulfate	98.0	1.0 mg/L	50.0	45.4	105	85-115	3		
Carbamates, Batch B5I2061									

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Carbamates, Batch B5I2061, Continued									
Blank (B5I2061-BLK1)				Prepared: 2025-09-03, Analyzed: 2025-09-03					
Aldicarb	< 0.0010	0.0010 mg/L							
Bendiocarb	< 0.0010	0.0010 mg/L							
Carbaryl	< 0.0010	0.0010 mg/L							
Carbofuran	< 0.0010	0.0010 mg/L							
LCS (B5I2061-BS1)				Prepared: 2025-09-03, Analyzed: 2025-09-03					
Aldicarb	0.0186	0.0010 mg/L	0.0202		92	70-130			
Bendiocarb	0.0202	0.0010 mg/L	0.0202		100	70-130			
Carbaryl	0.0163	0.0010 mg/L	0.0200		82	70-130			
Carbofuran	0.0208	0.0010 mg/L	0.0200		104	70-130			
LCS Dup (B5I2061-BSD1)				Prepared: 2025-09-03, Analyzed: 2025-09-03					
Aldicarb	0.0173	0.0010 mg/L	0.0202		86	70-130	7	20	
Bendiocarb	0.0185	0.0010 mg/L	0.0202		91	70-130	9	20	
Carbaryl	0.0154	0.0010 mg/L	0.0200		77	70-130	6	20	
Carbofuran	0.0187	0.0010 mg/L	0.0200		94	70-130	11	20	
Chlorinated Phenols, Batch B5H4545									
Blank (B5H4545-BLK1)				Prepared: 2025-08-26, Analyzed: 2025-08-26					
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	1.51	µg/L	2.00		75	60-130			
Surrogate: 2,4,6-Tribromophenol	1.44	µg/L	2.01		72	60-130			
Surrogate: Phenol-d6	4.61	µg/L	5.00		92	70-130			
LCS (B5H4545-BS1)				Prepared: 2025-08-26, Analyzed: 2025-08-26					
2-Chlorophenol	8.08	0.10 µg/L	10.0		81	60-130			
3 & 4-Chlorophenol	16.3	0.10 µg/L	20.0		81	60-130			
4-Chloro-3-Methylphenol	8.79	0.50 µg/L	10.0		88	60-130			
2,3-Dichlorophenol	8.36	0.20 µg/L	10.0		84	60-130			
2,4 & 2,5-Dichlorophenol	16.9	0.20 µg/L	20.0		85	60-130			
2,6-Dichlorophenol	8.52	0.20 µg/L	10.0		85	60-130			
3,4-Dichlorophenol	8.06	0.20 µg/L	10.0		81	60-130			
3,5-Dichlorophenol	8.48	0.20 µg/L	10.0		85	60-130			
2,3,4-Trichlorophenol	8.30	0.50 µg/L	10.0		83	60-130			
2,3,5-Trichlorophenol	8.36	0.50 µg/L	10.0		84	60-130			
2,3,6-Trichlorophenol	8.57	0.50 µg/L	10.0		86	60-130			
2,4,5-Trichlorophenol	7.64	0.50 µg/L	10.0		76	60-130			
2,4,6-Trichlorophenol	8.74	0.50 µg/L	10.0		87	60-130			
3,4,5-Trichlorophenol	7.56	0.50 µg/L	10.0		76	60-130			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Chlorinated Phenols, Batch B5H4545, Continued

LCS (B5H4545-BS1), Continued

Prepared: 2025-08-26, Analyzed: 2025-08-26

2,3,4,5 & 2,3,5,6-Tetrachlorophenol	15.9	0.50 µg/L	20.0		80	60-130			
2,3,4,6-Tetrachlorophenol	9.24	0.50 µg/L	10.0		92	60-130			
Pentachlorophenol	10.8	0.50 µg/L	10.0		108	60-130			
Surrogate: 2,4-Dibromophenol	1.66	µg/L	2.00		83	60-130			
Surrogate: 2,4,6-Tribromophenol	1.70	µg/L	2.01		85	60-130			
Surrogate: Phenol-d6	4.50	µg/L	5.00		90	70-130			

LCS Dup (B5H4545-BSD1)

Prepared: 2025-08-26, Analyzed: 2025-08-26

2-Chlorophenol	8.87	0.10 µg/L	10.0		89	60-130	9	40	
3 & 4-Chlorophenol	18.2	0.10 µg/L	20.0		91	60-130	11	40	
4-Chloro-3-Methylphenol	9.84	0.50 µg/L	10.0		98	60-130	11	40	
2,3-Dichlorophenol	8.86	0.20 µg/L	10.0		89	60-130	6	40	
2,4 & 2,5-Dichlorophenol	18.4	0.20 µg/L	20.0		92	60-130	8	40	
2,6-Dichlorophenol	8.92	0.20 µg/L	10.0		89	60-130	5	40	
3,4-Dichlorophenol	9.33	0.20 µg/L	10.0		93	60-130	15	40	
3,5-Dichlorophenol	9.56	0.20 µg/L	10.0		96	60-130	12	40	
2,3,4-Trichlorophenol	9.09	0.50 µg/L	10.0		91	60-130	9	40	
2,3,5-Trichlorophenol	9.22	0.50 µg/L	10.0		92	60-130	10	40	
2,3,6-Trichlorophenol	8.97	0.50 µg/L	10.0		90	60-130	5	40	
2,4,5-Trichlorophenol	8.40	0.50 µg/L	10.0		84	60-130	9	40	
2,4,6-Trichlorophenol	9.23	0.50 µg/L	10.0		92	60-130	5	40	
3,4,5-Trichlorophenol	9.83	0.50 µg/L	10.0		98	60-130	26	40	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	15.3	0.50 µg/L	20.0		76	60-130	4	40	
2,3,4,6-Tetrachlorophenol	9.05	0.50 µg/L	10.0		91	60-130	2	40	
Pentachlorophenol	12.0	0.50 µg/L	10.0		120	60-130	10	40	
Surrogate: 2,4-Dibromophenol	1.79	µg/L	2.00		90	60-130			
Surrogate: 2,4,6-Tribromophenol	1.85	µg/L	2.01		92	60-130			
Surrogate: Phenol-d6	5.25	µg/L	5.00		105	70-130			

General Parameters, Batch B5H3811

Blank (B5H3811-BLK1)

Prepared: 2025-08-20, Analyzed: 2025-08-20

Colour, True	< 5.0	5.0 CU							
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LCS (B5H3811-BS1)

Prepared: 2025-08-20, Analyzed: 2025-08-20

Colour, True	25	5.0 CU	25.0		100	90-110			
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Duplicate (B5H3811-DUP1)

Source: 25H2563-01

Prepared: 2025-08-20, Analyzed: 2025-08-20

Colour, True	< 5.0	5.0 CU	< 5.0				15		
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General Parameters, Batch B5H3860

Blank (B5H3860-BLK1)

Prepared: 2025-08-20, Analyzed: 2025-08-20

Ammonia, Total (as N)	< 0.050	0.050 mg/L							
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Blank (B5H3860-BLK2)

Prepared: 2025-08-20, Analyzed: 2025-08-20

Ammonia, Total (as N)	< 0.050	0.050 mg/L							
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LCS (B5H3860-BS1)

Prepared: 2025-08-20, Analyzed: 2025-08-20

Ammonia, Total (as N)	0.204	0.050 mg/L	0.200		102	85-115			
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LCS (B5H3860-BS2)

Prepared: 2025-08-20, Analyzed: 2025-08-20

Ammonia, Total (as N)	0.172	0.050 mg/L	0.200		86	85-115			
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General Parameters, Batch B5H3894

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B5H3894, Continued									
Blank (B5H3894-BLK1)			Prepared: 2025-08-20, Analyzed: 2025-08-20						
Turbidity	< 0.10	0.10 NTU							
Blank (B5H3894-BLK2)			Prepared: 2025-08-20, Analyzed: 2025-08-20						
Turbidity	< 0.10	0.10 NTU							
LCS (B5H3894-BS1)			Prepared: 2025-08-20, Analyzed: 2025-08-20						
Turbidity	37.8	0.10 NTU	40.0		94	90-110			
LCS (B5H3894-BS2)			Prepared: 2025-08-20, Analyzed: 2025-08-20						
Turbidity	38.5	0.10 NTU	40.0		96	90-110			
General Parameters, Batch B5H3980									
Blank (B5H3980-BLK1)			Prepared: 2025-08-20, Analyzed: 2025-08-21						
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
LCS (B5H3980-BS1)			Prepared: 2025-08-20, Analyzed: 2025-08-21						
Nitritotriacetic Acid	0.98	0.20 mg/L	0.991		99	80-120			
LCS Dup (B5H3980-BSD1)			Prepared: 2025-08-20, Analyzed: 2025-08-21						
Nitritotriacetic Acid	0.92	0.20 mg/L	0.991		93	80-120	6	20	
General Parameters, Batch B5H4026									
Blank (B5H4026-BLK1)			Prepared: 2025-08-20, Analyzed: 2025-08-22						
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B5H4026-BLK2)			Prepared: 2025-08-21, Analyzed: 2025-08-22						
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B5H4026-BLK3)			Prepared: 2025-08-21, Analyzed: 2025-08-22						
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B5H4026-BLK4)			Prepared: 2025-08-21, Analyzed: 2025-08-22						
Carbon, Total Organic	< 0.50	0.50 mg/L							
LCS (B5H4026-BS1)			Prepared: 2025-08-20, Analyzed: 2025-08-22						
Carbon, Total Organic	9.36	0.50 mg/L	10.0		94	78-116			
LCS (B5H4026-BS2)			Prepared: 2025-08-21, Analyzed: 2025-08-22						
Carbon, Total Organic	9.51	0.50 mg/L	10.0		95	78-116			
LCS (B5H4026-BS3)			Prepared: 2025-08-21, Analyzed: 2025-08-22						
Carbon, Total Organic	9.47	0.50 mg/L	10.0		95	78-116			
LCS (B5H4026-BS4)			Prepared: 2025-08-21, Analyzed: 2025-08-22						
Carbon, Total Organic	9.26	0.50 mg/L	10.0		93	78-116			
General Parameters, Batch B5H4027									
Blank (B5H4027-BLK1)			Prepared: 2025-08-21, Analyzed: 2025-08-21						
Alkalinity, Total (as CaCO3)	< 2.0	2.0 mg/L							
Bicarbonate (HCO3)	< 2.5	2.5 mg/L							
Carbonate (CO3)	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B5H4027, Continued									
Blank (B5H4027-BLK1), Continued				Prepared: 2025-08-21, Analyzed: 2025-08-21					
pH	< 0.10	0.10 pH units							
Blank (B5H4027-BLK2)				Prepared: 2025-08-21, Analyzed: 2025-08-21					
Alkalinity, Total (as CaCO ₃)	< 2.0	2.0 mg/L							
Bicarbonate (HCO ₃)	< 2.5	2.5 mg/L							
Carbonate (CO ₃)	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
pH	< 0.10	0.10 pH units							
LCS (B5H4027-BS1)				Prepared: 2025-08-21, Analyzed: 2025-08-21					
Alkalinity, Total (as CaCO ₃)	252	2.0 mg/L	250		101	90-110			
Conductivity (EC)	1000	2.0 µS/cm	1000		100	95-105			
LCS (B5H4027-BS2)				Prepared: 2025-08-21, Analyzed: 2025-08-21					
Alkalinity, Total (as CaCO ₃)	253	2.0 mg/L	250		101	90-110			
Conductivity (EC)	1000	2.0 µS/cm	1000		100	95-105			
Reference (B5H4027-SRM1)				Prepared: 2025-08-21, Analyzed: 2025-08-21					
pH	7.03	0.10 pH units	7.00		100	98-102			
Reference (B5H4027-SRM2)				Prepared: 2025-08-21, Analyzed: 2025-08-21					
pH	7.03	0.10 pH units	7.00		100	98-102			
General Parameters, Batch B5H4074									
Blank (B5H4074-BLK1)				Prepared: 2025-08-21, Analyzed: 2025-08-21					
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							
Duplicate (B5H4074-DUP1)				Source: 25H2563-01	Prepared: 2025-08-21, Analyzed: 2025-08-21				
Chlorine, Total	0.80	0.02 mg/L		0.85		6	10		
Chlorine, Free	0.67	0.02 mg/L		0.70		4	20		
Reference (B5H4074-SRM1)				Prepared: 2025-08-21, Analyzed: 2025-08-21					
Chlorine, Total	1.70	0.02 mg/L	1.71		99	91.5-108.4			
Chlorine, Free	1.70	0.02 mg/L	1.71		99	91.5-108.4			
General Parameters, Batch B5H4143									
Blank (B5H4143-BLK1)				Prepared: 2025-08-21, Analyzed: 2025-08-21					
Sulfide, Total	< 0.020	0.020 mg/L							
LCS (B5H4143-BS1)				Prepared: 2025-08-21, Analyzed: 2025-08-21					
Sulfide, Total	0.464	0.020 mg/L	0.480		97	80-120			
Duplicate (B5H4143-DUP1)				Source: 25H2563-01	Prepared: 2025-08-21, Analyzed: 2025-08-21				
Sulfide, Total	< 0.020	0.020 mg/L		< 0.020			15		
General Parameters, Batch B5H4234									
Blank (B5H4234-BLK1)				Prepared: 2025-08-22, Analyzed: 2025-08-22					
Cyanide, Total	< 0.0020	0.0020 mg/L							
Blank (B5H4234-BLK2)				Prepared: 2025-08-22, Analyzed: 2025-08-22					
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 B5H4234, Continued									
LCS (B5H4234-BS1)				Prepared: 2025-08-26, Analyzed: 2025-08-26					
Cyanide, Total	0.0176	0.0020 mg/L	0.0200		88	82-120			
LCS (B5H4234-BS2)				Prepared: 2025-08-26, Analyzed: 2025-08-26					
Cyanide, Total	0.0186	0.0020 mg/L	0.0200		93	82-120			
LCS Dup (B5H4234-BSD1)				Prepared: 2025-08-26, Analyzed: 2025-08-26					
Cyanide, Total	0.0182	0.0020 mg/L	0.0200		91	82-120	4	10	
LCS Dup (B5H4234-BSD2)				Prepared: 2025-08-26, Analyzed: 2025-08-26					
Cyanide, Total	0.0187	0.0020 mg/L	0.0200		93	82-120	< 1	10	
Miscellaneous Herbicides, Batch B5H4449									
Blank (B5H4449-BLK1)				Prepared: 2025-08-25, Analyzed: 2025-08-25					
Diquat	< 0.0100	0.0100 mg/L							
Paraquat	< 0.0050	0.0050 mg/L							
LCS (B5H4449-BS1)				Prepared: 2025-08-25, Analyzed: 2025-08-25					
Diquat	0.0301	0.0100 mg/L	0.0250		120	70-130			
Paraquat	0.0262	0.0050 mg/L	0.0250		105	70-130			
LCS Dup (B5H4449-BSD1)				Prepared: 2025-08-25, Analyzed: 2025-08-25					
Diquat	0.0321	0.0100 mg/L	0.0250		128	70-130	6	20	
Paraquat	0.0286	0.0050 mg/L	0.0250		114	70-130	9	20	
Miscellaneous Herbicides, Batch B5H4626									
Blank (B5H4626-BLK1)				Prepared: 2025-08-26, Analyzed: 2025-08-27					
Glyphosate	< 0.050	0.050 mg/L							
LCS (B5H4626-BS1)				Prepared: 2025-08-26, Analyzed: 2025-08-27					
Glyphosate	0.240	0.050 mg/L	0.250		96	70-130			
LCS Dup (B5H4626-BSD1)				Prepared: 2025-08-26, Analyzed: 2025-08-27					
Glyphosate	0.235	0.050 mg/L	0.250		94	70-130	2	20	
Matrix Spike (B5H4626-MS1)				Source: 25H2563-01		Prepared: 2025-08-26, Analyzed: 2025-08-27			
Glyphosate	0.240	0.050 mg/L	0.250	< 0.050	96	60-120			
Pesticides, Herbicides, and Fungicides, Batch B5H4157									
Blank (B5H4157-BLK1)				Prepared: 2025-08-21, Analyzed: 2025-08-29					
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 B5H4157, Continued

Blank (B5H4157-BLK1), Continued

Prepared: 2025-08-21, Analyzed: 2025-08-29

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	1.14	µg/L	1.00		114	50-140			

LCS (B5H4157-BS1)

Prepared: 2025-08-21, Analyzed: 2025-08-29

Alachlor	0.426	0.100 µg/L	0.505	84	50-140	
Aldrin	0.437	0.006 µg/L	0.500	87	50-140	
Atrazine	0.452	0.100 µg/L	0.505	90	50-140	
Atrazine-desethyl	0.179	0.100 µg/L	0.500	36	50-140	
Azinphos-methyl	0.358	0.200 µg/L	0.495	72	50-140	SPK
alpha-BHC	0.423	0.010 µg/L	0.500	85	50-140	
beta-BHC	0.674	0.050 µg/L	0.500	135	50-140	
delta-BHC	0.459	0.050 µg/L	0.500	92	50-140	
gamma-BHC (Lindane)	0.463	0.050 µg/L	0.500	93	50-140	
Bromacil	0.399	0.100 µg/L	0.500	80	50-140	
Bromoxynil	0.493	0.200 µg/L	0.496	99	50-140	
Butachlor	0.469	0.020 µg/L	0.500	94	50-140	
Captan	0.473	0.100 µg/L	0.497	95	50-140	
Chlordane (cis + trans)	0.883	0.050 µg/L	1.00	88	50-140	
Chlorothalonil	0.542	0.050 µg/L	0.499	109	50-140	

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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 B5H4157, Continued

LCS (B5H4157-BS1), Continued				Prepared: 2025-08-21, Analyzed: 2025-08-29					
Chlorpyrifos	0.457	0.010 µg/L	0.500		91	50-140			
Cyanazine	0.408	0.100 µg/L	0.500		82	50-140			
DDT, Total	2.67	0.010 µg/L	3.00		89	50-140			
Deltamethrin	3.31	0.100 µg/L	4.99		66	50-140			
Diazinon	0.474	0.020 µg/L	0.510		93	50-140			
Dichlorvos	0.450	0.100 µg/L	0.501		90	50-140			
Diclofop-methyl	0.480	0.100 µg/L	0.500		96	50-140			
Dieldrin	0.491	0.010 µg/L	0.500		98	50-140			
Dimethoate	0.384	0.200 µg/L	0.505		76	50-140			
Disulfoton	0.334	0.100 µg/L	0.512		65	50-140			
Diuron	0.526	0.200 µg/L	0.500		105	50-140			
Endosulfan I + II	0.885	0.010 µg/L	1.00		89	50-140			
Endosulfan sulfate	0.449	0.050 µg/L	0.500		90	50-140			
Endrin	0.480	0.020 µg/L	0.500		96	50-140			
Endrin aldehyde	0.386	0.020 µg/L	0.500		77	50-140			
Endrin ketone	0.329	0.020 µg/L	0.500		66	50-140			
Fenchlorphos (Ronnel)	0.431	0.100 µg/L	0.493		87	50-140			
Heptachlor	0.411	0.010 µg/L	0.500		82	50-140			
Heptachlor epoxide	0.431	0.010 µg/L	0.500		86	50-140			
Linuron	0.483	0.050 µg/L	0.506		96	50-140			
Malathion	0.469	0.100 µg/L	0.500		94	50-140			
Methoxychlor	0.356	0.050 µg/L	0.500		71	50-140			
Methyl parathion	0.442	0.100 µg/L	0.507		87	50-140			
Metolachlor	0.421	0.100 µg/L	0.500		84	50-140			
Metribuzin	0.414	0.200 µg/L	0.500		83	50-140			
Parathion	0.482	0.100 µg/L	0.510		94	50-140			
Pentachloronitrobenzene	0.453	0.100 µg/L	0.494		92	50-140			
Permethrin	0.284	0.010 µg/L	0.483		59	50-140			
Phorate	0.404	0.100 µg/L	0.505		80	50-140			
Prometon	0.432	0.300 µg/L	0.500		86	50-140			
Prometryne	0.438	0.100 µg/L	0.500		88	50-140			
Simazine	0.384	0.200 µg/L	0.505		76	50-140			
Sulfotep	0.362	0.100 µg/L	0.496		73	50-140			
Tebuthiuron	0.466	0.200 µg/L	0.500		93	50-140			
Temephos (Abate)	3.85	0.500 µg/L	5.04		76	50-140			
Terbufos	0.403	0.100 µg/L	0.505		80	50-140			
Triallate	0.429	0.100 µg/L	0.497		86	50-140			
Trifluralin	0.409	0.200 µg/L	0.500		82	50-140			
Surrogate: Tributyl Phosphate	1.17	µg/L	1.00		117	50-140			

LCS Dup (B5H4157-BS1)				Prepared: 2025-08-21, Analyzed: 2025-08-29					
Alachlor	0.397	0.100 µg/L	0.505		79	50-140	7	30	
Aldrin	0.385	0.006 µg/L	0.500		77	50-140	13	30	
Atrazine	0.403	0.100 µg/L	0.505		80	50-140	12	30	
Atrazine-desethyl	0.154	0.100 µg/L	0.500		31	50-140	15	30	SPK
Azinphos-methyl	0.344	0.200 µg/L	0.495		70	50-140	4	30	
alpha-BHC	0.377	0.010 µg/L	0.500		75	50-140	11	30	
beta-BHC	0.677	0.050 µg/L	0.500		135	50-140	< 1	30	
delta-BHC	0.420	0.050 µg/L	0.500		84	50-140	9	30	
gamma-BHC (Lindane)	0.418	0.050 µg/L	0.500		84	50-140	10	30	
Bromacil	0.360	0.100 µg/L	0.500		72	50-140	10	30	
Bromoxynil	0.566	0.200 µg/L	0.496		114	50-140	14	30	
Butachlor	0.397	0.020 µg/L	0.500		79	50-140	17	30	
Captan	0.418	0.100 µg/L	0.497		84	50-140	12	30	
Chlordane (cis + trans)	0.797	0.050 µg/L	1.00		80	50-140	10	30	
Chlorothalonil	0.483	0.050 µg/L	0.499		97	50-140	11	30	

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B5H4157, Continued									
LCS Dup (B5H4157-BSD1), Continued					Prepared: 2025-08-21, Analyzed: 2025-08-29				
Chlorpyrifos	0.426	0.010 µg/L	0.500		85	50-140	7	30	
Cyanazine	0.386	0.100 µg/L	0.500		77	50-140	5	30	
DDT, Total	2.44	0.010 µg/L	3.00		81	50-140	9	30	
Deltamethrin	3.18	0.100 µg/L	4.99		64	50-140	4	30	
Diazinon	0.427	0.020 µg/L	0.510		84	50-140	11	30	
Dichlorvos	0.413	0.100 µg/L	0.501		83	50-140	9	30	
Diclofop-methyl	0.414	0.100 µg/L	0.500		83	50-140	15	30	
Dieldrin	0.425	0.010 µg/L	0.500		85	50-140	14	30	
Dimethoate	0.372	0.200 µg/L	0.505		74	50-140	3	30	
Disulfoton	0.348	0.100 µg/L	0.512		68	50-140	4	30	
Diuron	0.459	0.200 µg/L	0.500		92	50-140	14	30	
Endosulfan I + II	0.803	0.010 µg/L	1.00		80	50-140	10	30	
Endosulfan sulfate	0.405	0.050 µg/L	0.500		81	50-140	10	30	
Endrin	0.409	0.020 µg/L	0.500		82	50-140	16	30	
Endrin aldehyde	0.317	0.020 µg/L	0.500		63	50-140	20	30	
Endrin ketone	0.350	0.020 µg/L	0.500		70	50-140	6	30	
Fenchlorphos (Ronnel)	0.397	0.100 µg/L	0.493		80	50-140	8	30	
Heptachlor	0.372	0.010 µg/L	0.500		74	50-140	10	30	
Heptachlor epoxide	0.382	0.010 µg/L	0.500		76	50-140	12	30	
Linuron	0.439	0.050 µg/L	0.506		87	50-140	10	30	
Malathion	0.402	0.100 µg/L	0.500		80	50-140	15	30	
Methoxychlor	0.350	0.050 µg/L	0.500		70	50-140	2	30	
Methyl parathion	0.402	0.100 µg/L	0.507		79	50-140	10	30	
Metolachlor	0.384	0.100 µg/L	0.500		77	50-140	9	30	
Metribuzin	0.367	0.200 µg/L	0.500		73	50-140	12	30	
Parathion	0.431	0.100 µg/L	0.510		84	50-140	11	30	
Pentachloronitrobenzene	0.363	0.100 µg/L	0.494		73	50-140	22	30	
Permethrin	0.277	0.010 µg/L	0.483		57	50-140	3	30	
Phorate	0.420	0.100 µg/L	0.505		83	50-140	4	30	
Prometon	0.391	0.300 µg/L	0.500		78	50-140	10	30	
Prometryne	0.390	0.100 µg/L	0.500		78	50-140	12	30	
Simazine	0.372	0.200 µg/L	0.505		74	50-140	3	30	
Sulfotep	0.350	0.100 µg/L	0.496		71	50-140	4	30	
Tebuthiuron	0.424	0.200 µg/L	0.500		85	50-140	10	30	
Temephos (Abate)	3.72	0.500 µg/L	5.04		74	50-140	3	30	
Terbufos	0.395	0.100 µg/L	0.505		78	50-140	2	30	
Triallate	0.401	0.100 µg/L	0.497		81	50-140	7	30	
Trifluralin	0.361	0.200 µg/L	0.500		72	50-140	12	30	
Surrogate: Tributyl Phosphate	0.949	µg/L	1.00		95	50-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B5H4274

Blank (B5H4274-BLK1)			Prepared: 2025-08-22, Analyzed: 2025-08-28						
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							
Benzo(a)anthracene	< 0.010	0.010 µg/L							
Benzo(a)pyrene	< 0.010	0.010 µg/L							
Benzo(b+j)fluoranthene	< 0.050	0.050 µg/L							
Benzo(g,h,i)perylene	< 0.050	0.050 µg/L							
Benzo(k)fluoranthene	< 0.050	0.050 µg/L							
2-Chloronaphthalene	< 0.100	0.100 µg/L							
Chrysene	< 0.050	0.050 µg/L							
Dibenz(a,h)anthracene	< 0.010	0.010 µg/L							
Fluoranthene	< 0.030	0.030 µg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B5H4274, Continued									
Blank (B5H4274-BLK1), Continued					Prepared: 2025-08-22, Analyzed: 2025-08-28				
Fluorene	< 0.050	0.050 µg/L							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 µg/L							
1-Methylnaphthalene	< 0.100	0.100 µg/L							
2-Methylnaphthalene	< 0.100	0.100 µg/L							
Naphthalene	< 0.200	0.200 µg/L							
Phenanthrene	< 0.100	0.100 µg/L							
Pyrene	< 0.020	0.020 µg/L							
Quinoline	< 0.050	0.050 µg/L							
Surrogate: Naphthalene-d8	21.5	µg/L	20.0		108	50-140			
Surrogate: Perylene-d12	23.2	µg/L	20.0		116	50-140			
LCS (B5H4274-BS2)					Prepared: 2025-08-22, Analyzed: 2025-08-27				
Acenaphthene	17.1	0.050 µg/L	20.0		86	50-140			
Acenaphthylene	17.1	0.200 µg/L	20.0		86	50-140			
Acridine	21.6	0.050 µg/L	20.0		108	50-140			
Anthracene	17.3	0.010 µg/L	20.0		87	50-140			
Benz(a)anthracene	17.1	0.010 µg/L	20.0		86	50-140			
Benzo(a)pyrene	17.5	0.010 µg/L	20.0		87	50-140			
Benzo(b+j)fluoranthene	38.4	0.050 µg/L	40.0		96	50-140			
Benzo(g,h,i)perylene	17.2	0.050 µg/L	20.0		86	50-140			
Benzo(k)fluoranthene	15.8	0.050 µg/L	20.0		79	50-140			
2-Chloronaphthalene	16.4	0.100 µg/L	20.4		80	50-140			
Chrysene	17.3	0.050 µg/L	20.0		87	50-140			
Dibenz(a,h)anthracene	17.1	0.010 µg/L	20.0		86	50-140			
Fluoranthene	17.8	0.030 µg/L	20.0		89	50-140			
Fluorene	12.2	0.050 µg/L	20.0		61	50-140			
Indeno(1,2,3-cd)pyrene	17.6	0.050 µg/L	20.0		88	50-140			
1-Methylnaphthalene	17.0	0.100 µg/L	19.9		85	50-140			
2-Methylnaphthalene	17.2	0.100 µg/L	20.0		86	50-140			
Naphthalene	16.6	0.200 µg/L	20.0		83	50-140			
Phenanthrene	17.5	0.100 µg/L	20.0		87	50-140			
Pyrene	17.5	0.020 µg/L	20.0		87	50-140			
Quinoline	21.9	0.050 µg/L	20.0		110	50-140			
Surrogate: Naphthalene-d8	18.2	µg/L	20.0		91	50-140			
Surrogate: Perylene-d12	18.3	µg/L	20.0		91	50-140			
LCS Dup (B5H4274-BSD2)					Prepared: 2025-08-22, Analyzed: 2025-08-27				
Acenaphthene	23.3	0.050 µg/L	20.0		116	50-140	30	30	
Acenaphthylene	23.4	0.200 µg/L	20.0		117	50-140	31	30	SPK
Acridine	24.4	0.050 µg/L	20.0		122	50-140	13	30	
Anthracene	23.4	0.010 µg/L	20.0		117	50-140	30	30	
Benz(a)anthracene	22.8	0.010 µg/L	20.0		114	50-140	29	30	
Benzo(a)pyrene	21.0	0.010 µg/L	20.0		105	50-140	18	30	
Benzo(b+j)fluoranthene	44.5	0.050 µg/L	40.0		111	50-140	15	30	
Benzo(g,h,i)perylene	20.6	0.050 µg/L	20.0		103	50-140	18	30	
Benzo(k)fluoranthene	20.0	0.050 µg/L	20.0		100	50-140	23	30	
2-Chloronaphthalene	23.3	0.100 µg/L	20.4		114	50-140	35	30	SPK
Chrysene	23.2	0.050 µg/L	20.0		116	50-140	29	30	
Dibenz(a,h)anthracene	20.4	0.010 µg/L	20.0		102	50-140	17	30	
Fluoranthene	23.6	0.030 µg/L	20.0		118	50-140	28	30	
Fluorene	13.2	0.050 µg/L	20.0		66	50-140	8	30	
Indeno(1,2,3-cd)pyrene	21.1	0.050 µg/L	20.0		105	50-140	18	30	
1-Methylnaphthalene	23.6	0.100 µg/L	19.9		118	50-140	33	30	SPK
2-Methylnaphthalene	23.5	0.100 µg/L	20.0		117	50-140	31	30	SPK
Naphthalene	22.7	0.200 µg/L	20.0		114	50-140	31	30	SPK
Phenanthrene	22.9	0.100 µg/L	20.0		115	50-140	27	30	

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B5H4274, Continued									
LCS Dup (B5H4274-BSD2), Continued				Prepared: 2025-08-22, Analyzed: 2025-08-27					
Pyrene	23.2	0.020 µg/L	20.0		116	50-140	28	30	
Quinoline	26.0	0.050 µg/L	20.0		130	50-140	17	30	
Surrogate: Naphthalene-d8	21.3	µg/L	20.0		107	50-140			
Surrogate: Perylene-d12	18.0	µg/L	20.0		90	50-140			

Total Metals, Batch B5H4286

Blank (B5H4286-BLK1)			Prepared: 2025-08-22, Analyzed: 2025-08-22						
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 (B5H4286-BS1)			Prepared: 2025-08-22, Analyzed: 2025-08-22						
Aluminum, total	3.72	0.0050 mg/L	4.00		93	80-120			
Antimony, total	0.0374	0.00020 mg/L	0.0400		93	80-120			
Arsenic, total	0.377	0.00050 mg/L	0.400		94	80-120			
Barium, total	0.0385	0.0050 mg/L	0.0400		96	80-120			
Boron, total	0.374	0.0500 mg/L	0.400		93	80-120			
Cadmium, total	0.0375	0.000010 mg/L	0.0400		94	80-120			
Calcium, total	3.84	0.20 mg/L	4.00		96	80-120			
Chromium, total	0.0383	0.00050 mg/L	0.0400		96	80-120			
Copper, total	0.0381	0.00040 mg/L	0.0400		95	80-120			
Iron, total	3.80	0.010 mg/L	4.00		95	80-120			
Lead, total	0.0385	0.00020 mg/L	0.0400		96	80-120			
Magnesium, total	3.80	0.010 mg/L	4.00		95	80-120			
Manganese, total	0.0381	0.00020 mg/L	0.0400		95	80-120			
Potassium, total	3.73	0.10 mg/L	4.00		93	80-120			
Selenium, total	0.381	0.00050 mg/L	0.400		95	80-120			
Silver, total	0.0371	0.000050 mg/L	0.0400		93	80-120			
Sodium, total	3.83	0.10 mg/L	4.00		96	80-120			
Strontium, total	0.0372	0.0010 mg/L	0.0400		93	80-120			
Uranium, total	0.0386	0.000020 mg/L	0.0400		97	80-120			
Zinc, total	0.372	0.0040 mg/L	0.400		93	80-120			

Duplicate (B5H4286-DUP1)			Source: 25H2563-01		Prepared: 2025-08-22, Analyzed: 2025-08-22				
Aluminum, total	0.0393	0.0050 mg/L		0.0384			2	20	
Antimony, total	< 0.00020	0.00020 mg/L		< 0.00020				20	
Arsenic, total	< 0.00050	0.00050 mg/L		< 0.00050				20	
Barium, total	0.0992	0.0050 mg/L		0.101			1	20	

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Total Metals, Batch B5H4286, Continued									
Duplicate (B5H4286-DUP1), Continued		Source: 25H2563-01		Prepared: 2025-08-22, Analyzed: 2025-08-22					
Boron, total	< 0.0500	0.0500 mg/L		< 0.0500				20	
Cadmium, total	< 0.000010	0.000010 mg/L		< 0.000010				20	
Calcium, total	46.4	0.20 mg/L		47.0			1	20	
Chromium, total	< 0.00050	0.00050 mg/L		< 0.00050				20	
Copper, total	0.00054	0.00040 mg/L		0.00058				20	
Iron, total	< 0.010	0.010 mg/L		< 0.010				20	
Lead, total	< 0.00020	0.00020 mg/L		< 0.00020				20	
Magnesium, total	13.9	0.010 mg/L		14.1			1	20	
Manganese, total	0.00057	0.00020 mg/L		0.00059				20	
Potassium, total	0.91	0.10 mg/L		0.91			< 1	20	
Selenium, total	< 0.00050	0.00050 mg/L		< 0.00050				20	
Silver, total	< 0.000050	0.000050 mg/L		< 0.000050				20	
Sodium, total	5.07	0.10 mg/L		5.09			< 1	20	
Strontium, total	0.310	0.0010 mg/L		0.318			2	20	
Uranium, total	0.000127	0.000020 mg/L		0.000128			< 1	20	
Zinc, total	< 0.0040	0.0040 mg/L		< 0.0040				20	

Total Metals, Batch B5H4397

Blank (B5H4397-BLK1)		Prepared: 2025-08-24, Analyzed: 2025-08-24							
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5H4397-BLK2)		Prepared: 2025-08-24, Analyzed: 2025-08-24							
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5H4397-BLK3)		Prepared: 2025-08-24, Analyzed: 2025-08-24							
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5H4397-BLK4)		Prepared: 2025-08-24, Analyzed: 2025-08-24							
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B5H4397-BS1)		Prepared: 2025-08-24, Analyzed: 2025-08-24							
Mercury, total	0.00256	0.000010 mg/L		0.00250	102	80-120			
LCS (B5H4397-BS2)		Prepared: 2025-08-24, Analyzed: 2025-08-24							
Mercury, total	0.00252	0.000010 mg/L		0.00250	101	80-120			
LCS (B5H4397-BS3)		Prepared: 2025-08-24, Analyzed: 2025-08-24							
Mercury, total	0.00239	0.000010 mg/L		0.00250	96	80-120			
LCS (B5H4397-BS4)		Prepared: 2025-08-24, Analyzed: 2025-08-24							
Mercury, total	0.00286	0.000010 mg/L		0.00250	114	80-120			

Volatile Organic Compounds (VOC), Batch B5H4036

Blank (B5H4036-BLK1)		Prepared: 2025-08-21, Analyzed: 2025-08-21							
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							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B5H4036, Continued									
Blank (B5H4036-BLK1), Continued					Prepared: 2025-08-21, Analyzed: 2025-08-21				
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	< 0.5	0.5 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	21.2	µg/L	18.8		113	70-130			
Surrogate: 4-Bromofluorobenzene	21.0	µg/L	19.9		105	70-130			
LCS (B5H4036-BS1)					Prepared: 2025-08-21, Analyzed: 2025-08-21				
Benzene	19.1	0.5 µg/L	20.1		95	70-130			
Bromodichloromethane	19.1	1.0 µg/L	20.1		95	70-130			
Bromoform	19.7	1.0 µg/L	20.1		98	70-130			
Carbon tetrachloride	21.5	0.5 µg/L	20.1		107	70-130			
Chlorobenzene	20.6	1.0 µg/L	20.1		102	70-130			
Chloroethane	23.2	2.0 µg/L	20.1		115	60-140			
Chloroform	19.9	1.0 µg/L	20.1		99	70-130			
Dibromochloromethane	20.2	1.0 µg/L	20.1		100	70-130			
1,2-Dibromoethane	19.3	0.3 µg/L	20.1		96	70-130			
Dibromomethane	20.1	1.0 µg/L	20.1		100	70-130			
1,2-Dichlorobenzene	22.6	0.5 µg/L	20.1		112	70-130			
1,3-Dichlorobenzene	22.3	1.0 µg/L	20.1		111	70-130			
1,4-Dichlorobenzene	22.2	1.0 µg/L	20.1		110	70-130			
1,1-Dichloroethane	17.4	1.0 µg/L	20.1		87	70-130			
1,2-Dichloroethane	20.6	1.0 µg/L	20.1		102	70-130			
1,1-Dichloroethylene	19.4	1.0 µg/L	20.1		96	70-130			
cis-1,2-Dichloroethylene	18.5	1.0 µg/L	20.1		92	70-130			
trans-1,2-Dichloroethylene	25.3	1.0 µg/L	20.1		126	70-130			
Dichloromethane	27.7	3.0 µg/L	20.1		138	70-130			SPK
1,2-Dichloropropane	17.0	1.0 µg/L	20.1		84	70-130			
1,3-Dichloropropene (cis + trans)	35.5	1.0 µg/L	40.0		89	70-130			
Ethylbenzene	20.9	1.0 µg/L	20.1		104	70-130			
Methyl tert-butyl ether	43.6	1.0 µg/L	20.0		218	70-130			SPK
Styrene	19.6	1.0 µg/L	20.1		98	70-130			
1,1,2,2-Tetrachloroethane	19.8	0.5 µg/L	20.1		99	70-130			
Tetrachloroethylene	22.2	1.0 µg/L	20.1		110	70-130			
Toluene	20.5	0.5 µg/L	20.1		102	70-130			
1,1,1-Trichloroethane	21.3	1.0 µg/L	20.1		106	70-130			
1,1,2-Trichloroethane	20.1	1.0 µg/L	20.1		100	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 B5H4036, Continued									
LCS (B5H4036-BS1), Continued				Prepared: 2025-08-21, Analyzed: 2025-08-21					
Trichloroethylene	21.7	1.0 µg/L	20.1		108	70-130			
Trichlorofluoromethane	22.7	1.0 µg/L	20.1		113	60-140			
Vinyl chloride	14.4	1.0 µg/L	20.1		72	60-140			
Xylenes (total)	62.5	2.0 µg/L	60.3		104	70-130			
Surrogate: Toluene-d8	18.5	µg/L	18.8		98	70-130			
Surrogate: 4-Bromofluorobenzene	20.8	µg/L	19.9		104	70-130			
Duplicate (B5H4036-DUP1)				Source: 25H2563-01		Prepared: 2025-08-21, Analyzed: 2025-08-21			
Benzene	< 0.5	0.5 µg/L		< 0.5				30	
Bromodichloromethane	1.7	1.0 µg/L		1.7				30	
Bromoform	< 1.0	1.0 µg/L		< 1.0				30	
Carbon tetrachloride	< 0.5	0.5 µg/L		< 0.5				30	
Chlorobenzene	< 1.0	1.0 µg/L		< 1.0				30	
Chloroethane	< 2.0	2.0 µg/L		< 2.0				30	
Chloroform	75.0	1.0 µg/L		74.3			1	30	
Dibromochloromethane	< 1.0	1.0 µg/L		< 1.0				30	
1,2-Dibromoethane	< 0.3	0.3 µg/L		< 0.3				30	
Dibromomethane	< 1.0	1.0 µg/L		< 1.0				30	
1,2-Dichlorobenzene	< 0.5	0.5 µg/L		< 0.5				30	
1,3-Dichlorobenzene	< 1.0	1.0 µg/L		< 1.0				30	
1,4-Dichlorobenzene	< 1.0	1.0 µg/L		< 1.0				30	
1,1-Dichloroethane	< 1.0	1.0 µg/L		< 1.0				30	
1,2-Dichloroethane	< 1.0	1.0 µg/L		< 1.0				30	
1,1-Dichloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
cis-1,2-Dichloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
trans-1,2-Dichloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
Dichloromethane	< 3.0	3.0 µg/L		< 3.0				30	
1,2-Dichloropropane	< 1.0	1.0 µg/L		< 1.0				30	
1,3-Dichloropropane (cis + trans)	< 1.0	1.0 µg/L		< 1.0				30	
Ethylbenzene	< 1.0	1.0 µg/L		< 1.0				30	
Methyl tert-butyl ether	< 1.0	1.0 µg/L		< 1.0				30	
Styrene	< 1.0	1.0 µg/L		< 1.0				30	
1,1,2,2-Tetrachloroethane	< 0.5	0.5 µg/L		< 0.5				30	
Tetrachloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
Toluene	< 0.5	0.5 µg/L		< 0.5				30	
1,1,1-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				30	
1,1,2-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				30	
Trichloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
Trichlorofluoromethane	< 1.0	1.0 µg/L		< 1.0				30	
Vinyl chloride	< 1.0	1.0 µg/L		< 1.0				30	
Xylenes (total)	< 2.0	2.0 µg/L		< 2.0				30	
Surrogate: Toluene-d8	20.5	µg/L	18.8		109	70-130			
Surrogate: 4-Bromofluorobenzene	20.7	µg/L	19.9		104	70-130			
Matrix Spike (B5H4036-MS1)				Source: 25H2563-01		Prepared: 2025-08-21, Analyzed: 2025-08-21			
Benzene	19.1	0.5 µg/L	20.1	< 0.5	95	70-130			
Bromodichloromethane	22.6	1.0 µg/L	20.1	1.7	104	70-130			
Bromoform	19.7	1.0 µg/L	20.1	< 1.0	98	70-130			
Carbon tetrachloride	23.4	0.5 µg/L	20.1	< 0.5	116	70-130			
Chlorobenzene	20.1	1.0 µg/L	20.1	< 1.0	100	70-130			
Chloroethane	24.0	2.0 µg/L	20.1	< 2.0	119	60-140			
Chloroform	127	1.0 µg/L	20.1	74.3	262	70-130			MS2
Dibromochloromethane	21.4	1.0 µg/L	20.1	< 1.0	106	70-130			
1,2-Dibromoethane	19.4	0.3 µg/L	20.1	< 0.3	97	70-130			
Dibromomethane	20.7	1.0 µg/L	20.1	< 1.0	103	70-130			
1,2-Dichlorobenzene	22.2	0.5 µg/L	20.1	< 0.5	110	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

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

WORK ORDER REPORTED 25H2563
2025-09-03 15:23

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B5H4036, Continued									
Matrix Spike (B5H4036-MS1), Continued		Source: 25H2563-01		Prepared: 2025-08-21, Analyzed: 2025-08-21					
1,3-Dichlorobenzene	21.2	1.0 µg/L	20.1	< 1.0	106	70-130			
1,4-Dichlorobenzene	21.5	1.0 µg/L	20.1	< 1.0	107	70-130			
1,1-Dichloroethane	17.3	1.0 µg/L	20.1	< 1.0	86	70-130			
1,2-Dichloroethane	21.6	1.0 µg/L	20.1	< 1.0	108	70-130			
1,1-Dichloroethylene	21.5	1.0 µg/L	20.1	< 1.0	106	70-130			
cis-1,2-Dichloroethylene	18.5	1.0 µg/L	20.1	< 1.0	92	70-130			
trans-1,2-Dichloroethylene	24.8	1.0 µg/L	20.1	< 1.0	123	70-130			
Dichloromethane	28.4	3.0 µg/L	20.1	< 3.0	141	70-130			MS1
1,2-Dichloropropane	16.8	1.0 µg/L	20.1	< 1.0	84	70-130			
1,3-Dichloropropene (cis + trans)	34.2	1.0 µg/L	40.0	< 1.0	86	70-130			
Ethylbenzene	20.3	1.0 µg/L	20.1	< 1.0	100	70-130			
Methyl tert-butyl ether	32.2	1.0 µg/L	20.0	< 1.0	161	70-130			MS1
Styrene	9.7	1.0 µg/L	20.1	< 1.0	48	70-130			MS1
1,1,2,2-Tetrachloroethane	20.6	0.5 µg/L	20.1	< 0.5	103	70-130			
Tetrachloroethylene	21.7	1.0 µg/L	20.1	< 1.0	108	70-130			
Toluene	20.3	0.5 µg/L	20.1	< 0.5	101	70-130			
1,1,1-Trichloroethane	22.0	1.0 µg/L	20.1	< 1.0	109	70-130			
1,1,2-Trichloroethane	20.3	1.0 µg/L	20.1	< 1.0	101	70-130			
Trichloroethylene	21.4	1.0 µg/L	20.1	< 1.0	106	70-130			
Trichlorofluoromethane	20.0	1.0 µg/L	20.1	< 1.0	99	60-140			
Vinyl chloride	16.1	1.0 µg/L	20.1	< 1.0	80	60-140			
Xylenes (total)	60.7	2.0 µg/L	60.3	< 2.0	100	70-130			
Surrogate: Toluene-d8	20.7	µg/L	18.8		110	70-130			
Surrogate: 4-Bromofluorobenzene	22.0	µg/L	19.9		111	70-130			

QC Qualifiers:

- MS1 The matrix spike recovery was outside of control limits due to a matrix effect and/or interference.
- MS2 The native sample concentration is greater than the spike concentration hence the matrix spike limits do not apply.
- SPK The recovery of this analyte was outside of established control limits.