ANALYTICAL REPORT

May 01, 2025

Pace Analytical Services, LLC
2025.05.01 23:15:39 -05'00'
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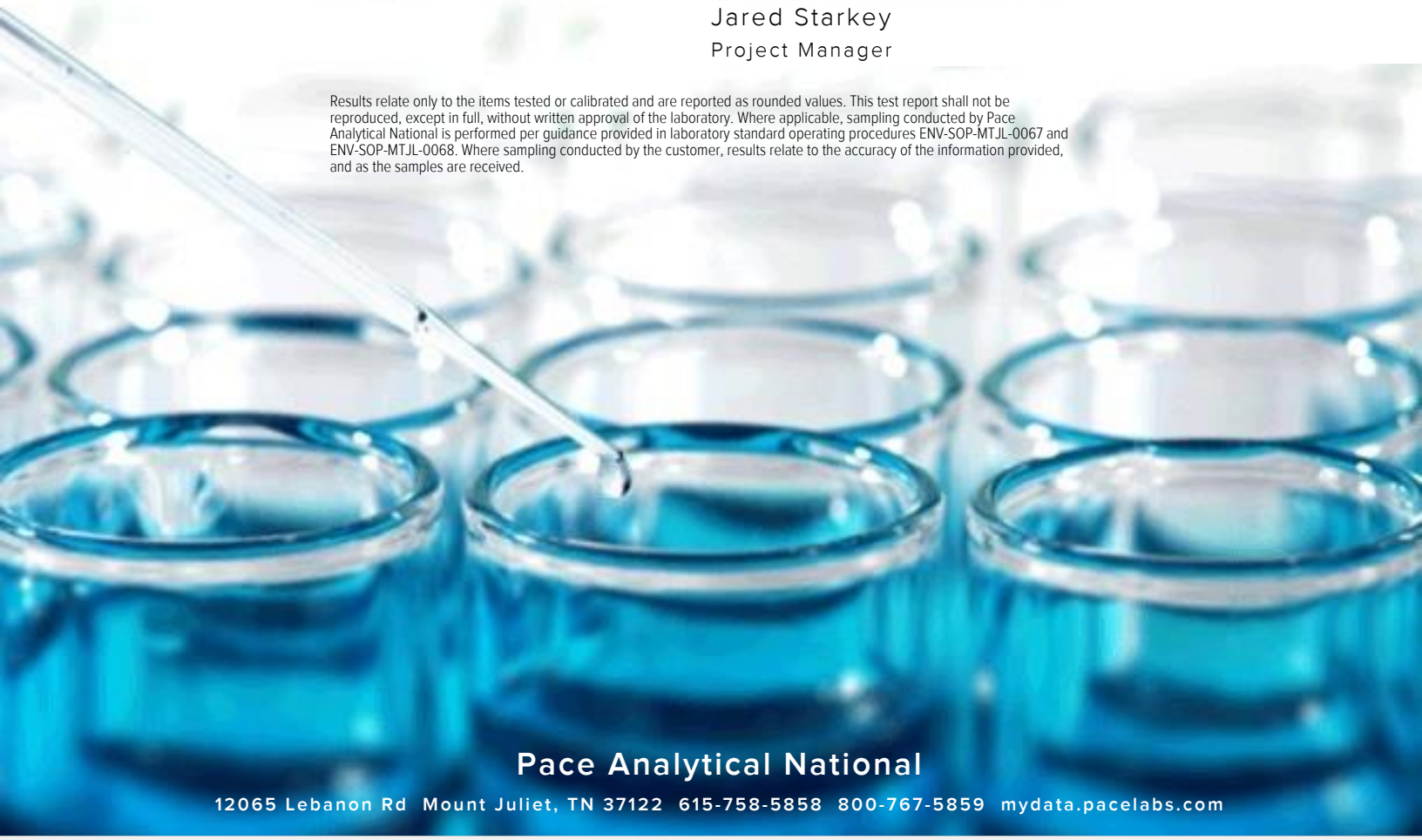
CTEH - ER

Sample Delivery Group:	L1853216
Samples Received:	04/30/2025
Project Number:	PROJ-054017
Description:	Bishop Loss of Containment Incident
Report To:	CTEH
	5120 North Shore Drive
	North Little Rock, AR 72118

Entire Report Reviewed By:

Jared Starkey
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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GACO0429T000S001 L1853216-01 Solid

Collected by	Collected date/time	Received date/time
	04/29/25 09:20	04/30/25 11:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2503695	1	04/30/25 14:18	05/01/25 17:13	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2503635	1	04/30/25 13:22	04/30/25 13:34	CMB	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2503850	1	04/30/25 18:20	04/30/25 19:48	RTW	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2503884	10	04/30/25 20:39	05/01/25 17:13	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2503695	1	04/30/25 14:18	04/30/25 17:36	MDM	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2503982	10	04/30/25 17:37	05/01/25 17:28	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2503717	1	04/30/25 14:01	04/30/25 15:52	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2503642	1	04/30/25 12:41	04/30/25 16:21	WHS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2503715	1	04/30/25 15:35	04/30/25 23:38	HLA	Mt. Juliet, TN

GACO0429T000S002 L1853216-02 Solid

Collected by	Collected date/time	Received date/time
	04/29/25 09:40	04/30/25 11:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2503695	1	04/30/25 14:18	05/01/25 17:14	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2503635	1	04/30/25 13:22	04/30/25 13:34	CMB	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2503850	1	04/30/25 18:20	04/30/25 19:50	RTW	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2503884	10	04/30/25 20:39	05/01/25 17:14	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2503695	1	04/30/25 14:18	04/30/25 17:49	MDM	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2503926	5	04/30/25 17:11	05/01/25 13:41	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2503717	1	04/30/25 14:01	04/30/25 15:54	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2503642	1	04/30/25 12:41	04/30/25 16:41	WHS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2503715	2	04/30/25 15:35	05/01/25 02:26	HLA	Mt. Juliet, TN

GACO0429T000S003 L1853216-03 Solid

Collected by	Collected date/time	Received date/time
	04/29/25 10:00	04/30/25 11:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2503695	1	04/30/25 14:18	05/01/25 17:15	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2503635	1	04/30/25 13:22	04/30/25 13:34	CMB	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2503850	1	04/30/25 18:20	04/30/25 19:51	RTW	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2503884	10	04/30/25 20:39	05/01/25 17:15	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2503695	1	04/30/25 14:18	04/30/25 18:02	MDM	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2503982	10	04/30/25 17:37	05/01/25 17:28	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2503717	1	04/30/25 14:01	04/30/25 15:34	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2503642	1	04/30/25 12:41	04/30/25 17:01	WHS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2503715	2	04/30/25 15:35	05/01/25 00:20	HLA	Mt. Juliet, TN

GACO0429T000T001 L1853216-04 GW

Collected by	Collected date/time	Received date/time
	04/29/25 07:30	04/30/25 11:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2503621	1	04/30/25 15:59	04/30/25 15:59	DWR	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jared Starkey
Project Manager

Wet Chemistry by Method 4500NOrg D-2021

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2503884	(MS) R4208489-11, (MSD) R4208489-13, L1853216-03	Kjeldahl Nitrogen, TKN

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2503884	(MS) R4208489-9	Kjeldahl Nitrogen, TKN

Metals (ICP) by Method 6010D

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2503717	(MS) R4207786-5, L1853216-03	Aluminum and Iron

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2503717	(MS) R4207786-5, (MSD) R4207786-6, L1853216-03	Calcium

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2503717	(MS) R4207786-5, (MSD) R4207786-6, L1853216-03	Potassium

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2503717	(MSD) R4207786-6, L1853216-03	Iron

Volatile Organic Compounds (GC/MS) by Method 8260D

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2503621	L1853216-04	1,2-Dichloropropane, 2-Butanone (MEK), 4-Methyl-2-pentanone (MIBK), Acrylonitrile and Di-isopropyl ether
WG2503642	L1853216-01	1,2-Dichloroethane, Bromomethane, Chloromethane, Di-isopropyl ether and Hexachloro-1,3-butadiene
WG2503642	L1853216-02	1,2-Dichloroethane, Bromomethane, Chloromethane, Di-isopropyl ether and Hexachloro-1,3-butadiene
WG2503642	L1853216-03	1,2-Dichloroethane, Bromomethane, Chloromethane, Di-isopropyl ether and Hexachloro-1,3-butadiene

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2503621	(LCS) R4207819-1, L1853216-04	Acrolein and Hexachloro-1,3-butadiene

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2503642	(LCS) R4207895-1, L1853216-01, 02, 03	Bromomethane

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2503642	(MS) R4207895-3, (MSD) R4207895-4, L1853216-03	Bromomethane and Chloroethane

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2503642	(MSD) R4207895-4, L1853216-03	1,1,1-Trichloroethane, 1,1,2-Trichlorotrifluoroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 2,2-Dichloropropane, Carbon tetrachloride, Dichlorodifluoromethane, Hexachloro-1,3-butadiene and Vinyl chloride

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2503715	L1853216-01	2,4-Dimethylphenol, Bis(2-chloroethyl)ether, Hexachlorocyclopentadiene and Pentachlorophenol
WG2503715	L1853216-02	2,4-Dimethylphenol, Bis(2-chloroethyl)ether, Hexachlorocyclopentadiene and Pentachlorophenol
WG2503715	L1853216-03	2,4-Dimethylphenol, Bis(2-chloroethyl)ether, Hexachlorocyclopentadiene and Pentachlorophenol

The initial calibration verification standard (SSCV) associated with this data responded high.

Batch	Lab Sample ID	Analytes
WG2503715	L1853216-01	Hexachlorocyclopentadiene
WG2503715	L1853216-02	Hexachlorocyclopentadiene
WG2503715	L1853216-03	Hexachlorocyclopentadiene

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2503715	(MS) R4207985-3, (MSD) R4207985-4, L1853216-03	Benzidine and Hexachlorocyclopentadiene

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	1890000		715	23600	1	05/01/2025 17:13	WG2503695

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.8		1	04/30/2025 13:34	WG2503635

Wet Chemistry by Method 350.1

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	U		8480	11800	1	04/30/2025 19:48	WG2503850

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1830000		179000	236000	10	05/01/2025 17:13	WG2503884

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	59300		715	23600	1	04/30/2025 17:36	WG2503695

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	28000000		255000	1000000	10	05/01/2025 17:28	WG2503982

Metals (ICP) by Method 6010D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Aluminum	2640000		7170	23600	1	04/30/2025 15:52	WG2503717
Antimony	U		815	2360	1	04/30/2025 15:52	WG2503717
Beryllium	571		56.3	236	1	04/30/2025 15:52	WG2503717
Calcium	5670000		22400	118000	1	04/30/2025 15:52	WG2503717
Cobalt	3560		209	1180	1	04/30/2025 15:52	WG2503717
Iron	3550000		2640	11800	1	04/30/2025 15:52	WG2503717
Magnesium	1700000		23500	118000	1	04/30/2025 15:52	WG2503717
Manganese	251000		204	1180	1	04/30/2025 15:52	WG2503717
Potassium	1750000		24700	118000	1	04/30/2025 15:52	WG2503717
Sodium	391000		48600	118000	1	04/30/2025 15:52	WG2503717
Thallium	U		611	2360	1	04/30/2025 15:52	WG2503717
Vanadium	10800		452	2360	1	04/30/2025 15:52	WG2503717

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		49.6	68.0	1	04/30/2025 16:21	WG2503642
Acrylonitrile	U		4.91	17.0	1	04/30/2025 16:21	WG2503642
Bromobenzene	U		1.22	17.0	1	04/30/2025 16:21	WG2503642
Bromodichloromethane	U		0.986	3.40	1	04/30/2025 16:21	WG2503642
Bromoform	U		1.59	34.0	1	04/30/2025 16:21	WG2503642
Bromomethane	U	C3 J4	2.68	17.0	1	04/30/2025 16:21	WG2503642

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
n-Butylbenzene	U		7.14	17.0	1	04/30/2025 16:21	WG2503642
sec-Butylbenzene	U		3.92	17.0	1	04/30/2025 16:21	WG2503642
tert-Butylbenzene	U		2.65	6.80	1	04/30/2025 16:21	WG2503642
Carbon tetrachloride	U		1.22	6.80	1	04/30/2025 16:21	WG2503642
Chlorobenzene	U		0.286	3.40	1	04/30/2025 16:21	WG2503642
Chlorodibromomethane	U		0.832	3.40	1	04/30/2025 16:21	WG2503642
Chloroethane	U		2.31	6.80	1	04/30/2025 16:21	WG2503642
Chloroform	U		1.40	3.40	1	04/30/2025 16:21	WG2503642
Chloromethane	U	C3	5.91	17.0	1	04/30/2025 16:21	WG2503642
2-Chlorotoluene	U		1.18	3.40	1	04/30/2025 16:21	WG2503642
4-Chlorotoluene	U		0.612	6.80	1	04/30/2025 16:21	WG2503642
1,2-Dibromo-3-Chloropropane	U		5.30	34.0	1	04/30/2025 16:21	WG2503642
1,2-Dibromoethane	U		0.881	3.40	1	04/30/2025 16:21	WG2503642
Dibromomethane	U		1.02	6.80	1	04/30/2025 16:21	WG2503642
1,2-Dichlorobenzene	U		0.578	6.80	1	04/30/2025 16:21	WG2503642
1,3-Dichlorobenzene	U		0.816	6.80	1	04/30/2025 16:21	WG2503642
1,4-Dichlorobenzene	U		0.952	6.80	1	04/30/2025 16:21	WG2503642
Dichlorodifluoromethane	U		2.19	6.80	1	04/30/2025 16:21	WG2503642
1,1-Dichloroethane	U		0.668	3.40	1	04/30/2025 16:21	WG2503642
1,2-Dichloroethane	U	C3	0.882	3.40	1	04/30/2025 16:21	WG2503642
1,1-Dichloroethene	U		0.824	3.40	1	04/30/2025 16:21	WG2503642
cis-1,2-Dichloroethene	U		0.998	3.40	1	04/30/2025 16:21	WG2503642
trans-1,2-Dichloroethene	U		1.41	6.80	1	04/30/2025 16:21	WG2503642
1,2-Dichloropropane	U		1.93	6.80	1	04/30/2025 16:21	WG2503642
1,1-Dichloropropene	U		1.10	3.40	1	04/30/2025 16:21	WG2503642
1,3-Dichloropropane	U		0.681	6.80	1	04/30/2025 16:21	WG2503642
cis-1,3-Dichloropropene	U		1.03	3.40	1	04/30/2025 16:21	WG2503642
trans-1,3-Dichloropropene	U		1.55	6.80	1	04/30/2025 16:21	WG2503642
2,2-Dichloropropane	U		1.88	3.40	1	04/30/2025 16:21	WG2503642
Di-isopropyl ether	U	C3	0.557	1.36	1	04/30/2025 16:21	WG2503642
Hexachloro-1,3-butadiene	U	C3	8.16	34.0	1	04/30/2025 16:21	WG2503642
Isopropylbenzene	U		0.578	3.40	1	04/30/2025 16:21	WG2503642
p-Isopropyltoluene	U		3.47	6.80	1	04/30/2025 16:21	WG2503642
2-Butanone (MEK)	U		86.3	136	1	04/30/2025 16:21	WG2503642
Methylene Chloride	U		9.03	34.0	1	04/30/2025 16:21	WG2503642
4-Methyl-2-pentanone (MIBK)	U		3.10	34.0	1	04/30/2025 16:21	WG2503642
Methyl tert-butyl ether	U		0.476	1.36	1	04/30/2025 16:21	WG2503642
n-Propylbenzene	U		1.29	6.80	1	04/30/2025 16:21	WG2503642
Styrene	U		0.311	17.0	1	04/30/2025 16:21	WG2503642
1,1,1,2-Tetrachloroethane	U		1.29	3.40	1	04/30/2025 16:21	WG2503642
1,1,2,2-Tetrachloroethane	U		0.945	3.40	1	04/30/2025 16:21	WG2503642
1,1,2-Trichlorotrifluoroethane	U		1.03	3.40	1	04/30/2025 16:21	WG2503642
Tetrachloroethene	U		1.22	3.40	1	04/30/2025 16:21	WG2503642
1,2,3-Trichlorobenzene	U		9.97	17.0	1	04/30/2025 16:21	WG2503642
1,2,4-Trichlorobenzene	U		5.98	17.0	1	04/30/2025 16:21	WG2503642
1,1,1-Trichloroethane	U		1.25	3.40	1	04/30/2025 16:21	WG2503642
1,1,2-Trichloroethane	U		0.812	3.40	1	04/30/2025 16:21	WG2503642
Trichloroethene	U		0.794	1.36	1	04/30/2025 16:21	WG2503642
Trichlorofluoromethane	U		1.12	3.40	1	04/30/2025 16:21	WG2503642
1,2,3-Trichloropropane	U		2.20	17.0	1	04/30/2025 16:21	WG2503642
1,2,3-Trimethylbenzene	U		2.15	6.80	1	04/30/2025 16:21	WG2503642
Vinyl chloride	U		1.58	3.40	1	04/30/2025 16:21	WG2503642
(S) Toluene-d8	*110*			*75.0-131*		*04/30/2025 16:21*	WG2503642
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*04/30/2025 16:21*	WG2503642
(S) 1,2-Dichloroethane-d4	*82.0*			*70.0-130*		*04/30/2025 16:21*	WG2503642

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acenaphthylene	U		5.53	39.3	1	04/30/2025 23:38	WG2503715
Benzidine	U		73.9	1970	1	04/30/2025 23:38	WG2503715
Benzo(g,h,i)perylene	U		7.19	39.3	1	04/30/2025 23:38	WG2503715
Bis(2-chlorethoxy)methane	U		11.8	393	1	04/30/2025 23:38	WG2503715
Bis(2-chloroethyl)ether	U	C3	13.0	393	1	04/30/2025 23:38	WG2503715
2,2-Oxybis(1-Chloropropane)	U		17.0	393	1	04/30/2025 23:38	WG2503715
4-Bromophenyl-phenylether	U		13.8	393	1	04/30/2025 23:38	WG2503715
2-Chloronaphthalene	U		6.90	39.3	1	04/30/2025 23:38	WG2503715
4-Chlorophenyl-phenylether	U		13.7	393	1	04/30/2025 23:38	WG2503715
1,2-Dichlorobenzene	U		11.6	393	1	04/30/2025 23:38	WG2503715
1,3-Dichlorobenzene	U		11.9	393	1	04/30/2025 23:38	WG2503715
1,4-Dichlorobenzene	U		11.7	393	1	04/30/2025 23:38	WG2503715
3,3-Dichlorobenzidine	U		14.5	393	1	04/30/2025 23:38	WG2503715
2,4-Dinitrotoluene	U		11.3	393	1	04/30/2025 23:38	WG2503715
2,6-Dinitrotoluene	U		12.9	393	1	04/30/2025 23:38	WG2503715
Hexachlorobenzene	U		13.9	393	1	04/30/2025 23:38	WG2503715
Hexachloro-1,3-butadiene	U		13.2	393	1	04/30/2025 23:38	WG2503715
Hexachlorocyclopentadiene	U	C3 C7	20.6	393	1	04/30/2025 23:38	WG2503715
Hexachloroethane	U		15.5	393	1	04/30/2025 23:38	WG2503715
Isophorone	U		12.0	393	1	04/30/2025 23:38	WG2503715
Nitrobenzene	U		13.7	393	1	04/30/2025 23:38	WG2503715
n-Nitrosodimethylamine	U		58.3	393	1	04/30/2025 23:38	WG2503715
n-Nitrosodiphenylamine	U		29.7	393	1	04/30/2025 23:38	WG2503715
n-Nitrosodi-n-propylamine	U		13.1	393	1	04/30/2025 23:38	WG2503715
Phenanthrene	U		7.80	39.3	1	04/30/2025 23:38	WG2503715
Benzylbutyl phthalate	U		12.3	393	1	04/30/2025 23:38	WG2503715
Bis(2-ethylhexyl)phthalate	U		49.8	393	1	04/30/2025 23:38	WG2503715
Di-n-butyl phthalate	U		13.5	393	1	04/30/2025 23:38	WG2503715
Diethyl phthalate	U		13.0	393	1	04/30/2025 23:38	WG2503715
Dimethyl phthalate	U		83.3	393	1	04/30/2025 23:38	WG2503715
Di-n-octyl phthalate	U		26.5	393	1	04/30/2025 23:38	WG2503715
1,2,4-Trichlorobenzene	U		12.3	393	1	04/30/2025 23:38	WG2503715
4-Chloro-3-methylphenol	U		12.7	393	1	04/30/2025 23:38	WG2503715
2-Chlorophenol	U		13.0	393	1	04/30/2025 23:38	WG2503715
2,4-Dichlorophenol	U		11.4	393	1	04/30/2025 23:38	WG2503715
2,4-Dimethylphenol	U	C3	10.3	393	1	04/30/2025 23:38	WG2503715
4,6-Dinitro-2-methylphenol	U		89.1	393	1	04/30/2025 23:38	WG2503715
2,4-Dinitrophenol	U		91.9	393	1	04/30/2025 23:38	WG2503715
2-Nitrophenol	U		14.0	393	1	04/30/2025 23:38	WG2503715
4-Nitrophenol	U		12.3	393	1	04/30/2025 23:38	WG2503715
Pentachlorophenol	U	C3	10.6	393	1	04/30/2025 23:38	WG2503715
Phenol	U		15.8	393	1	04/30/2025 23:38	WG2503715
2,4,6-Trichlorophenol	U		12.6	393	1	04/30/2025 23:38	WG2503715
(S) 2-Fluorophenol	*74.2*			*12.0-120*		*04/30/2025 23:38*	WG2503715
(S) Phenol-d5	*69.4*			*10.0-120*		*04/30/2025 23:38*	WG2503715
(S) Nitrobenzene-d5	*68.5*			*10.0-122*		*04/30/2025 23:38*	WG2503715
(S) 2-Fluorobiphenyl	*66.4*			*15.0-120*		*04/30/2025 23:38*	WG2503715
(S) 2,4,6-Tribromophenol	*74.8*			*10.0-127*		*04/30/2025 23:38*	WG2503715
(S) p-Terphenyl-d14	*68.5*			*10.0-120*		*04/30/2025 23:38*	WG2503715

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	1380000		706	23300	1	05/01/2025 17:14	WG2503695

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.9		1	04/30/2025 13:34	WG2503635

Wet Chemistry by Method 350.1

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	U		8370	11600	1	04/30/2025 19:50	WG2503850

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1340000		177000	233000	10	05/01/2025 17:14	WG2503884

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	34800		706	23300	1	04/30/2025 17:49	WG2503695

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	17100000		128000	500000	5	05/01/2025 13:41	WG2503926

Metals (ICP) by Method 6010D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Aluminum	1570000		7080	23300	1	04/30/2025 15:54	WG2503717
Antimony	U		805	2330	1	04/30/2025 15:54	WG2503717
Beryllium	303		55.6	233	1	04/30/2025 15:54	WG2503717
Calcium	4850000		22100	116000	1	04/30/2025 15:54	WG2503717
Cobalt	2050		206	1160	1	04/30/2025 15:54	WG2503717
Iron	2380000		2610	11600	1	04/30/2025 15:54	WG2503717
Magnesium	1270000		23200	116000	1	04/30/2025 15:54	WG2503717
Manganese	149000		201	1160	1	04/30/2025 15:54	WG2503717
Potassium	1580000		24300	116000	1	04/30/2025 15:54	WG2503717
Sodium	218000		48000	116000	1	04/30/2025 15:54	WG2503717
Thallium	U		603	2330	1	04/30/2025 15:54	WG2503717
Vanadium	6600		446	2330	1	04/30/2025 15:54	WG2503717

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		48.5	66.5	1	04/30/2025 16:41	WG2503642
Acrylonitrile	U		4.80	16.6	1	04/30/2025 16:41	WG2503642
Bromobenzene	U		1.20	16.6	1	04/30/2025 16:41	WG2503642
Bromodichloromethane	U		0.964	3.32	1	04/30/2025 16:41	WG2503642
Bromoform	U		1.56	33.2	1	04/30/2025 16:41	WG2503642
Bromomethane	U	C3 J4	2.62	16.6	1	04/30/2025 16:41	WG2503642

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
n-Butylbenzene	U		6.98	16.6	1	04/30/2025 16:41	WG2503642
sec-Butylbenzene	U		3.83	16.6	1	04/30/2025 16:41	WG2503642
tert-Butylbenzene	U		2.59	6.65	1	04/30/2025 16:41	WG2503642
Carbon tetrachloride	U		1.19	6.65	1	04/30/2025 16:41	WG2503642
Chlorobenzene	U		0.279	3.32	1	04/30/2025 16:41	WG2503642
Chlorodibromomethane	U		0.814	3.32	1	04/30/2025 16:41	WG2503642
Chloroethane	U		2.26	6.65	1	04/30/2025 16:41	WG2503642
Chloroform	U		1.37	3.32	1	04/30/2025 16:41	WG2503642
Chloromethane	U	C3	5.78	16.6	1	04/30/2025 16:41	WG2503642
2-Chlorotoluene	U		1.15	3.32	1	04/30/2025 16:41	WG2503642
4-Chlorotoluene	U		0.598	6.65	1	04/30/2025 16:41	WG2503642
1,2-Dibromo-3-Chloropropane	U		5.19	33.2	1	04/30/2025 16:41	WG2503642
1,2-Dibromoethane	U		0.862	3.32	1	04/30/2025 16:41	WG2503642
Dibromomethane	U		0.997	6.65	1	04/30/2025 16:41	WG2503642
1,2-Dichlorobenzene	U		0.565	6.65	1	04/30/2025 16:41	WG2503642
1,3-Dichlorobenzene	U		0.798	6.65	1	04/30/2025 16:41	WG2503642
1,4-Dichlorobenzene	U		0.931	6.65	1	04/30/2025 16:41	WG2503642
Dichlorodifluoromethane	U		2.14	6.65	1	04/30/2025 16:41	WG2503642
1,1-Dichloroethane	U		0.653	3.32	1	04/30/2025 16:41	WG2503642
1,2-Dichloroethane	U	C3	0.863	3.32	1	04/30/2025 16:41	WG2503642
1,1-Dichloroethene	U		0.806	3.32	1	04/30/2025 16:41	WG2503642
cis-1,2-Dichloroethene	U		0.976	3.32	1	04/30/2025 16:41	WG2503642
trans-1,2-Dichloroethene	U		1.38	6.65	1	04/30/2025 16:41	WG2503642
1,2-Dichloropropane	U		1.89	6.65	1	04/30/2025 16:41	WG2503642
1,1-Dichloropropene	U		1.08	3.32	1	04/30/2025 16:41	WG2503642
1,3-Dichloropropane	U		0.666	6.65	1	04/30/2025 16:41	WG2503642
cis-1,3-Dichloropropene	U		1.01	3.32	1	04/30/2025 16:41	WG2503642
trans-1,3-Dichloropropene	U		1.52	6.65	1	04/30/2025 16:41	WG2503642
2,2-Dichloropropane	U		1.84	3.32	1	04/30/2025 16:41	WG2503642
Di-isopropyl ether	U	C3	0.545	1.33	1	04/30/2025 16:41	WG2503642
Hexachloro-1,3-butadiene	U	C3	7.98	33.2	1	04/30/2025 16:41	WG2503642
Isopropylbenzene	U		0.565	3.32	1	04/30/2025 16:41	WG2503642
p-Isopropyltoluene	U		3.39	6.65	1	04/30/2025 16:41	WG2503642
2-Butanone (MEK)	U		84.4	133	1	04/30/2025 16:41	WG2503642
Methylene Chloride	U		8.83	33.2	1	04/30/2025 16:41	WG2503642
4-Methyl-2-pentanone (MIBK)	U		3.03	33.2	1	04/30/2025 16:41	WG2503642
Methyl tert-butyl ether	U		0.465	1.33	1	04/30/2025 16:41	WG2503642
n-Propylbenzene	U		1.26	6.65	1	04/30/2025 16:41	WG2503642
Styrene	U		0.305	16.6	1	04/30/2025 16:41	WG2503642
1,1,1,2-Tetrachloroethane	U		1.26	3.32	1	04/30/2025 16:41	WG2503642
1,1,2,2-Tetrachloroethane	U		0.924	3.32	1	04/30/2025 16:41	WG2503642
1,1,2-Trichlorotrifluoroethane	U		1.00	3.32	1	04/30/2025 16:41	WG2503642
Tetrachloroethene	U		1.19	3.32	1	04/30/2025 16:41	WG2503642
1,2,3-Trichlorobenzene	U		9.75	16.6	1	04/30/2025 16:41	WG2503642
1,2,4-Trichlorobenzene	U		5.85	16.6	1	04/30/2025 16:41	WG2503642
1,1,1-Trichloroethane	U		1.23	3.32	1	04/30/2025 16:41	WG2503642
1,1,2-Trichloroethane	U		0.794	3.32	1	04/30/2025 16:41	WG2503642
Trichloroethene	U		0.777	1.33	1	04/30/2025 16:41	WG2503642
Trichlorofluoromethane	U		1.10	3.32	1	04/30/2025 16:41	WG2503642
1,2,3-Trichloropropane	U		2.15	16.6	1	04/30/2025 16:41	WG2503642
1,2,3-Trimethylbenzene	U		2.10	6.65	1	04/30/2025 16:41	WG2503642
Vinyl chloride	U		1.54	3.32	1	04/30/2025 16:41	WG2503642
(S) Toluene-d8	*109*			*75.0-131*		*04/30/2025 16:41*	WG2503642
(S) 4-Bromofluorobenzene	*97.1*			*67.0-138*		*04/30/2025 16:41*	WG2503642
(S) 1,2-Dichloroethane-d4	*81.6*			*70.0-130*		*04/30/2025 16:41*	WG2503642

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acenaphthylene	U		10.9	77.6	2	05/01/2025 02:26	WG2503715
Benzidine	U		146	3890	2	05/01/2025 02:26	WG2503715
Benzo(g,h,i)perylene	U		14.2	77.6	2	05/01/2025 02:26	WG2503715
Bis(2-chlorethoxy)methane	U		23.3	776	2	05/01/2025 02:26	WG2503715
Bis(2-chloroethyl)ether	U	C3	25.6	776	2	05/01/2025 02:26	WG2503715
2,2-Oxybis(1-Chloropropane)	U		33.5	776	2	05/01/2025 02:26	WG2503715
4-Bromophenyl-phenylether	U		27.3	776	2	05/01/2025 02:26	WG2503715
2-Chloronaphthalene	U		13.6	77.6	2	05/01/2025 02:26	WG2503715
4-Chlorophenyl-phenylether	U		27.0	776	2	05/01/2025 02:26	WG2503715
1,2-Dichlorobenzene	U		22.9	776	2	05/01/2025 02:26	WG2503715
1,3-Dichlorobenzene	U		23.5	776	2	05/01/2025 02:26	WG2503715
1,4-Dichlorobenzene	U		23.1	776	2	05/01/2025 02:26	WG2503715
3,3-Dichlorobenzidine	U		28.7	776	2	05/01/2025 02:26	WG2503715
2,4-Dinitrotoluene	U		22.2	776	2	05/01/2025 02:26	WG2503715
2,6-Dinitrotoluene	U		25.4	776	2	05/01/2025 02:26	WG2503715
Hexachlorobenzene	U		27.5	776	2	05/01/2025 02:26	WG2503715
Hexachloro-1,3-butadiene	U		26.1	776	2	05/01/2025 02:26	WG2503715
Hexachlorocyclopentadiene	U	C3 C7	40.8	776	2	05/01/2025 02:26	WG2503715
Hexachloroethane	U		30.5	776	2	05/01/2025 02:26	WG2503715
Isophorone	U		23.8	776	2	05/01/2025 02:26	WG2503715
Nitrobenzene	U		27.0	776	2	05/01/2025 02:26	WG2503715
n-Nitrosodimethylamine	U		115	776	2	05/01/2025 02:26	WG2503715
n-Nitrosodiphenylamine	U		58.7	776	2	05/01/2025 02:26	WG2503715
n-Nitrosodi-n-propylamine	U		25.9	776	2	05/01/2025 02:26	WG2503715
Phenanthrene	U		15.4	77.6	2	05/01/2025 02:26	WG2503715
Benzylbutyl phthalate	U		24.2	776	2	05/01/2025 02:26	WG2503715
Bis(2-ethylhexyl)phthalate	U		98.3	776	2	05/01/2025 02:26	WG2503715
Di-n-butyl phthalate	U		26.6	776	2	05/01/2025 02:26	WG2503715
Diethyl phthalate	U		25.6	776	2	05/01/2025 02:26	WG2503715
Dimethyl phthalate	U		164	776	2	05/01/2025 02:26	WG2503715
Di-n-octyl phthalate	U		52.4	776	2	05/01/2025 02:26	WG2503715
1,2,4-Trichlorobenzene	U		24.2	776	2	05/01/2025 02:26	WG2503715
4-Chloro-3-methylphenol	U		25.2	776	2	05/01/2025 02:26	WG2503715
2-Chlorophenol	U		25.6	776	2	05/01/2025 02:26	WG2503715
2,4-Dichlorophenol	U		22.6	776	2	05/01/2025 02:26	WG2503715
2,4-Dimethylphenol	U	C3	20.3	776	2	05/01/2025 02:26	WG2503715
4,6-Dinitro-2-methylphenol	U		176	776	2	05/01/2025 02:26	WG2503715
2,4-Dinitrophenol	U		182	776	2	05/01/2025 02:26	WG2503715
2-Nitrophenol	U		27.7	776	2	05/01/2025 02:26	WG2503715
4-Nitrophenol	U		24.2	776	2	05/01/2025 02:26	WG2503715
Pentachlorophenol	U	C3	20.8	776	2	05/01/2025 02:26	WG2503715
Phenol	U		31.2	776	2	05/01/2025 02:26	WG2503715
2,4,6-Trichlorophenol	U		24.9	776	2	05/01/2025 02:26	WG2503715
(S) 2-Fluorophenol	*79.8*			*12.0-120*		*05/01/2025 02:26*	WG2503715
(S) Phenol-d5	*75.5*			*10.0-120*		*05/01/2025 02:26*	WG2503715
(S) Nitrobenzene-d5	*70.9*			*10.0-122*		*05/01/2025 02:26*	WG2503715
(S) 2-Fluorobiphenyl	*67.8*			*15.0-120*		*05/01/2025 02:26*	WG2503715
(S) 2,4,6-Tribromophenol	*73.2*			*10.0-127*		*05/01/2025 02:26*	WG2503715
(S) p-Terphenyl-d14	*73.6*			*10.0-120*		*05/01/2025 02:26*	WG2503715

Sample Narrative:

L1853216-02 WG2503715: Dilution due to matrix impact during extraction procedure

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	2330000		713	23500	1	05/01/2025 17:15	WG2503695

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.0		1	04/30/2025 13:34	WG2503635

Wet Chemistry by Method 350.1

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	U		8460	11800	1	04/30/2025 19:51	WG2503850

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	2240000	V	179000	235000	10	05/01/2025 17:15	WG2503884

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	88300		713	23500	1	04/30/2025 18:02	WG2503695

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	33600000		255000	1000000	10	05/01/2025 17:28	WG2503982

Metals (ICP) by Method 6010D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Aluminum	2430000	J5	7150	23500	1	04/30/2025 15:34	WG2503717
Antimony	U		813	2350	1	04/30/2025 15:34	WG2503717
Beryllium	469		56.1	235	1	04/30/2025 15:34	WG2503717
Calcium	5640000	V	22300	118000	1	04/30/2025 15:34	WG2503717
Cobalt	3210		208	1180	1	04/30/2025 15:34	WG2503717
Iron	3390000	J3 J5	2630	11800	1	04/30/2025 15:34	WG2503717
Magnesium	1670000		23400	118000	1	04/30/2025 15:34	WG2503717
Manganese	218000		203	1180	1	04/30/2025 15:34	WG2503717
Potassium	3010000	J6	24600	118000	1	04/30/2025 15:34	WG2503717
Sodium	600000		48500	118000	1	04/30/2025 15:34	WG2503717
Thallium	U		609	2350	1	04/30/2025 15:34	WG2503717
Vanadium	9780		450	2350	1	04/30/2025 15:34	WG2503717

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		49.4	67.6	1	04/30/2025 17:01	WG2503642
Acrylonitrile	U		4.88	16.9	1	04/30/2025 17:01	WG2503642
Bromobenzene	U		1.22	16.9	1	04/30/2025 17:01	WG2503642
Bromodichloromethane	U		0.981	3.38	1	04/30/2025 17:01	WG2503642
Bromoform	U		1.58	33.8	1	04/30/2025 17:01	WG2503642
Bromomethane	U	C3 J4 J6	2.66	16.9	1	04/30/2025 17:01	WG2503642

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
n-Butylbenzene	U		7.10	16.9	1	04/30/2025 17:01	WG2503642
sec-Butylbenzene	U		3.90	16.9	1	04/30/2025 17:01	WG2503642
tert-Butylbenzene	U		2.64	6.76	1	04/30/2025 17:01	WG2503642
Carbon tetrachloride	U	J3	1.21	6.76	1	04/30/2025 17:01	WG2503642
Chlorobenzene	U		0.284	3.38	1	04/30/2025 17:01	WG2503642
Chlorodibromomethane	U		0.828	3.38	1	04/30/2025 17:01	WG2503642
Chloroethane	U	J6	2.30	6.76	1	04/30/2025 17:01	WG2503642
Chloroform	U		1.39	3.38	1	04/30/2025 17:01	WG2503642
Chloromethane	U	C3	5.88	16.9	1	04/30/2025 17:01	WG2503642
2-Chlorotoluene	U		1.17	3.38	1	04/30/2025 17:01	WG2503642
4-Chlorotoluene	U		0.609	6.76	1	04/30/2025 17:01	WG2503642
1,2-Dibromo-3-Chloropropane	U		5.28	33.8	1	04/30/2025 17:01	WG2503642
1,2-Dibromoethane	U		0.877	3.38	1	04/30/2025 17:01	WG2503642
Dibromomethane	U		1.01	6.76	1	04/30/2025 17:01	WG2503642
1,2-Dichlorobenzene	U		0.575	6.76	1	04/30/2025 17:01	WG2503642
1,3-Dichlorobenzene	U		0.812	6.76	1	04/30/2025 17:01	WG2503642
1,4-Dichlorobenzene	U		0.947	6.76	1	04/30/2025 17:01	WG2503642
Dichlorodifluoromethane	U	J3	2.18	6.76	1	04/30/2025 17:01	WG2503642
1,1-Dichloroethane	U		0.664	3.38	1	04/30/2025 17:01	WG2503642
1,2-Dichloroethane	U	C3	0.878	3.38	1	04/30/2025 17:01	WG2503642
1,1-Dichloroethene	U	J3	0.820	3.38	1	04/30/2025 17:01	WG2503642
cis-1,2-Dichloroethene	U		0.993	3.38	1	04/30/2025 17:01	WG2503642
trans-1,2-Dichloroethene	U		1.41	6.76	1	04/30/2025 17:01	WG2503642
1,2-Dichloropropane	U		1.92	6.76	1	04/30/2025 17:01	WG2503642
1,1-Dichloropropene	U	J3	1.09	3.38	1	04/30/2025 17:01	WG2503642
1,3-Dichloropropane	U		0.678	6.76	1	04/30/2025 17:01	WG2503642
cis-1,3-Dichloropropene	U		1.02	3.38	1	04/30/2025 17:01	WG2503642
trans-1,3-Dichloropropene	U		1.54	6.76	1	04/30/2025 17:01	WG2503642
2,2-Dichloropropane	U	J3	1.87	3.38	1	04/30/2025 17:01	WG2503642
Di-isopropyl ether	U	C3	0.555	1.35	1	04/30/2025 17:01	WG2503642
Hexachloro-1,3-butadiene	U	C3 J3	8.12	33.8	1	04/30/2025 17:01	WG2503642
Isopropylbenzene	U		0.575	3.38	1	04/30/2025 17:01	WG2503642
p-Isopropyltoluene	U		3.45	6.76	1	04/30/2025 17:01	WG2503642
2-Butanone (MEK)	U		85.9	135	1	04/30/2025 17:01	WG2503642
Methylene Chloride	U		8.98	33.8	1	04/30/2025 17:01	WG2503642
4-Methyl-2-pentanone (MIBK)	U		3.08	33.8	1	04/30/2025 17:01	WG2503642
Methyl tert-butyl ether	U		0.473	1.35	1	04/30/2025 17:01	WG2503642
n-Propylbenzene	U		1.29	6.76	1	04/30/2025 17:01	WG2503642
Styrene	U		0.310	16.9	1	04/30/2025 17:01	WG2503642
1,1,1,2-Tetrachloroethane	U		1.28	3.38	1	04/30/2025 17:01	WG2503642
1,1,2,2-Tetrachloroethane	U		0.940	3.38	1	04/30/2025 17:01	WG2503642
1,1,2-Trichlorotrifluoroethane	U	J3	1.02	3.38	1	04/30/2025 17:01	WG2503642
Tetrachloroethene	U		1.21	3.38	1	04/30/2025 17:01	WG2503642
1,2,3-Trichlorobenzene	U		9.92	16.9	1	04/30/2025 17:01	WG2503642
1,2,4-Trichlorobenzene	U		5.95	16.9	1	04/30/2025 17:01	WG2503642
1,1,1-Trichloroethane	U	J3	1.25	3.38	1	04/30/2025 17:01	WG2503642
1,1,2-Trichloroethane	U		0.808	3.38	1	04/30/2025 17:01	WG2503642
Trichloroethene	U		0.790	1.35	1	04/30/2025 17:01	WG2503642
Trichlorofluoromethane	U		1.12	3.38	1	04/30/2025 17:01	WG2503642
1,2,3-Trichloropropane	U		2.19	16.9	1	04/30/2025 17:01	WG2503642
1,2,3-Trimethylbenzene	U		2.14	6.76	1	04/30/2025 17:01	WG2503642
Vinyl chloride	U	J3	1.57	3.38	1	04/30/2025 17:01	WG2503642
(S) Toluene-d8	*111*			*75.0-131*		*04/30/2025 17:01*	WG2503642
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*04/30/2025 17:01*	WG2503642
(S) 1,2-Dichloroethane-d4	*82.7*			*70.0-130*		*04/30/2025 17:01*	WG2503642

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acenaphthylene	U		11.0	78.3	2	05/01/2025 00:20	WG2503715
Benzidine	U	J6	147	3930	2	05/01/2025 00:20	WG2503715
Benzo(g,h,i)perylene	U		14.3	78.3	2	05/01/2025 00:20	WG2503715
Bis(2-chlorethoxy)methane	U		23.5	783	2	05/01/2025 00:20	WG2503715
Bis(2-chloroethyl)ether	U	C3	25.9	783	2	05/01/2025 00:20	WG2503715
2,2-Oxybis(1-Chloropropane)	U		33.9	783	2	05/01/2025 00:20	WG2503715
4-Bromophenyl-phenylether	U		27.5	783	2	05/01/2025 00:20	WG2503715
2-Chloronaphthalene	U		13.8	78.3	2	05/01/2025 00:20	WG2503715
4-Chlorophenyl-phenylether	U		27.3	783	2	05/01/2025 00:20	WG2503715
1,2-Dichlorobenzene	U		23.2	783	2	05/01/2025 00:20	WG2503715
1,3-Dichlorobenzene	U		23.8	783	2	05/01/2025 00:20	WG2503715
1,4-Dichlorobenzene	U		23.3	783	2	05/01/2025 00:20	WG2503715
3,3-Dichlorobenzidine	U		28.9	783	2	05/01/2025 00:20	WG2503715
2,4-Dinitrotoluene	U		22.5	783	2	05/01/2025 00:20	WG2503715
2,6-Dinitrotoluene	U		25.6	783	2	05/01/2025 00:20	WG2503715
Hexachlorobenzene	U		27.8	783	2	05/01/2025 00:20	WG2503715
Hexachloro-1,3-butadiene	U		26.3	783	2	05/01/2025 00:20	WG2503715
Hexachlorocyclopentadiene	U	C3 C7 J6	41.2	783	2	05/01/2025 00:20	WG2503715
Hexachloroethane	U		30.8	783	2	05/01/2025 00:20	WG2503715
Isophorone	U		24.0	783	2	05/01/2025 00:20	WG2503715
Nitrobenzene	U		27.3	783	2	05/01/2025 00:20	WG2503715
n-Nitrosodimethylamine	U		116	783	2	05/01/2025 00:20	WG2503715
n-Nitrosodiphenylamine	U		59.3	783	2	05/01/2025 00:20	WG2503715
n-Nitrosodi-n-propylamine	U		26.1	783	2	05/01/2025 00:20	WG2503715
Phenanthrene	U		15.5	78.3	2	05/01/2025 00:20	WG2503715
Benzylbutyl phthalate	U		24.5	783	2	05/01/2025 00:20	WG2503715
Bis(2-ethylhexyl)phthalate	U		99.3	783	2	05/01/2025 00:20	WG2503715
Di-n-butyl phthalate	U		26.8	783	2	05/01/2025 00:20	WG2503715
Diethyl phthalate	U		25.9	783	2	05/01/2025 00:20	WG2503715
Dimethyl phthalate	U		166	783	2	05/01/2025 00:20	WG2503715
Di-n-octyl phthalate	U		52.9	783	2	05/01/2025 00:20	WG2503715
1,2,4-Trichlorobenzene	U		24.5	783	2	05/01/2025 00:20	WG2503715
4-Chloro-3-methylphenol	U		25.4	783	2	05/01/2025 00:20	WG2503715
2-Chlorophenol	U		25.9	783	2	05/01/2025 00:20	WG2503715
2,4-Dichlorophenol	U		22.8	783	2	05/01/2025 00:20	WG2503715
2,4-Dimethylphenol	U	C3	20.5	783	2	05/01/2025 00:20	WG2503715
4,6-Dinitro-2-methylphenol	U		178	783	2	05/01/2025 00:20	WG2503715
2,4-Dinitrophenol	U		183	783	2	05/01/2025 00:20	WG2503715
2-Nitrophenol	U		28.0	783	2	05/01/2025 00:20	WG2503715
4-Nitrophenol	U		24.5	783	2	05/01/2025 00:20	WG2503715
Pentachlorophenol	U	C3	21.1	783	2	05/01/2025 00:20	WG2503715
Phenol	U		31.5	783	2	05/01/2025 00:20	WG2503715
2,4,6-Trichlorophenol	U		25.2	783	2	05/01/2025 00:20	WG2503715
(S) 2-Fluorophenol	*78.5*			*12.0-120*		*05/01/2025 00:20*	WG2503715
(S) Phenol-d5	*73.4*			*10.0-120*		*05/01/2025 00:20*	WG2503715
(S) Nitrobenzene-d5	*72.7*			*10.0-122*		*05/01/2025 00:20*	WG2503715
(S) 2-Fluorobiphenyl	*71.5*			*15.0-120*		*05/01/2025 00:20*	WG2503715
(S) 2,4,6-Tribromophenol	*78.8*			*10.0-127*		*05/01/2025 00:20*	WG2503715
(S) p-Terphenyl-d14	*74.8*			*10.0-120*		*05/01/2025 00:20*	WG2503715

Sample Narrative:

L1853216-03 WG2503715: Dilution due to matrix impact during extraction procedure

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	04/30/2025 15:59	WG2503621
Acrolein	U	J4	2.54	50.0	1	04/30/2025 15:59	WG2503621
Acrylonitrile	U	C3	0.671	10.0	1	04/30/2025 15:59	WG2503621
Benzene	U		0.0941	1.00	1	04/30/2025 15:59	WG2503621
Bromobenzene	U		0.118	1.00	1	04/30/2025 15:59	WG2503621
Bromodichloromethane	U		0.136	1.00	1	04/30/2025 15:59	WG2503621
Bromoform	U		0.129	1.00	1	04/30/2025 15:59	WG2503621
Bromomethane	U		0.605	5.00	1	04/30/2025 15:59	WG2503621
n-Butylbenzene	U		0.157	1.00	1	04/30/2025 15:59	WG2503621
sec-Butylbenzene	U		0.125	1.00	1	04/30/2025 15:59	WG2503621
tert-Butylbenzene	U		0.127	1.00	1	04/30/2025 15:59	WG2503621
Carbon tetrachloride	U		0.128	1.00	1	04/30/2025 15:59	WG2503621
Chlorobenzene	U		0.116	1.00	1	04/30/2025 15:59	WG2503621
Chlorodibromomethane	U		0.140	1.00	1	04/30/2025 15:59	WG2503621
Chloroethane	U		0.192	5.00	1	04/30/2025 15:59	WG2503621
Chloroform	U		0.111	5.00	1	04/30/2025 15:59	WG2503621
Chloromethane	U		0.960	2.50	1	04/30/2025 15:59	WG2503621
2-Chlorotoluene	U		0.106	1.00	1	04/30/2025 15:59	WG2503621
4-Chlorotoluene	U		0.114	1.00	1	04/30/2025 15:59	WG2503621
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	04/30/2025 15:59	WG2503621
1,2-Dibromoethane	U		0.126	1.00	1	04/30/2025 15:59	WG2503621
Dibromomethane	U		0.122	1.00	1	04/30/2025 15:59	WG2503621
1,2-Dichlorobenzene	U		0.107	1.00	1	04/30/2025 15:59	WG2503621
1,3-Dichlorobenzene	U		0.110	1.00	1	04/30/2025 15:59	WG2503621
1,4-Dichlorobenzene	U		0.120	1.00	1	04/30/2025 15:59	WG2503621
Dichlorodifluoromethane	U		0.374	5.00	1	04/30/2025 15:59	WG2503621
1,1-Dichloroethane	U		0.100	1.00	1	04/30/2025 15:59	WG2503621
1,2-Dichloroethane	U		0.0819	1.00	1	04/30/2025 15:59	WG2503621
1,1-Dichloroethene	U		0.188	1.00	1	04/30/2025 15:59	WG2503621
cis-1,2-Dichloroethene	U		0.126	1.00	1	04/30/2025 15:59	WG2503621
trans-1,2-Dichloroethene	U		0.149	1.00	1	04/30/2025 15:59	WG2503621
1,2-Dichloropropane	U	C3	0.149	1.00	1	04/30/2025 15:59	WG2503621
1,1-Dichloropropene	U		0.142	1.00	1	04/30/2025 15:59	WG2503621
1,3-Dichloropropane	U		0.110	1.00	1	04/30/2025 15:59	WG2503621
cis-1,3-Dichloropropene	U		0.111	1.00	1	04/30/2025 15:59	WG2503621
trans-1,3-Dichloropropene	U		0.118	1.00	1	04/30/2025 15:59	WG2503621
2,2-Dichloropropane	U		0.161	1.00	1	04/30/2025 15:59	WG2503621
Di-isopropyl ether	U	C3	0.105	1.00	1	04/30/2025 15:59	WG2503621
Ethylbenzene	U		0.137	1.00	1	04/30/2025 15:59	WG2503621
Hexachloro-1,3-butadiene	U	J4	0.337	1.00	1	04/30/2025 15:59	WG2503621
Isopropylbenzene	U		0.105	1.00	1	04/30/2025 15:59	WG2503621
p-Isopropyltoluene	U		0.120	1.00	1	04/30/2025 15:59	WG2503621
2-Butanone (MEK)	U	C3	1.19	10.0	1	04/30/2025 15:59	WG2503621
Methylene Chloride	U		0.430	5.00	1	04/30/2025 15:59	WG2503621
4-Methyl-2-pentanone (MIBK)	U	C3	0.478	10.0	1	04/30/2025 15:59	WG2503621
Methyl tert-butyl ether	U		0.101	1.00	1	04/30/2025 15:59	WG2503621
Naphthalene	U		1.00	5.00	1	04/30/2025 15:59	WG2503621
n-Propylbenzene	U		0.0993	1.00	1	04/30/2025 15:59	WG2503621
Styrene	U		0.118	1.00	1	04/30/2025 15:59	WG2503621
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	04/30/2025 15:59	WG2503621
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	04/30/2025 15:59	WG2503621
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	04/30/2025 15:59	WG2503621
Tetrachloroethene	U		0.300	1.00	1	04/30/2025 15:59	WG2503621
Toluene	U		0.278	1.00	1	04/30/2025 15:59	WG2503621
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/30/2025 15:59	WG2503621
1,2,4-Trichlorobenzene	U		0.481	1.00	1	04/30/2025 15:59	WG2503621

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,1-Trichloroethane	U		0.149	1.00	1	04/30/2025 15:59	WG2503621
1,1,2-Trichloroethane	U		0.158	1.00	1	04/30/2025 15:59	WG2503621
Trichloroethene	U		0.190	1.00	1	04/30/2025 15:59	WG2503621
Trichlorofluoromethane	U		0.160	5.00	1	04/30/2025 15:59	WG2503621
1,2,3-Trichloropropane	U		0.237	2.50	1	04/30/2025 15:59	WG2503621
1,2,4-Trimethylbenzene	U		0.322	1.00	1	04/30/2025 15:59	WG2503621
1,2,3-Trimethylbenzene	U		0.104	1.00	1	04/30/2025 15:59	WG2503621
1,3,5-Trimethylbenzene	U		0.104	1.00	1	04/30/2025 15:59	WG2503621
Vinyl chloride	U		0.234	1.00	1	04/30/2025 15:59	WG2503621
Xylenes, Total	U		0.174	3.00	1	04/30/2025 15:59	WG2503621
(S) Toluene-d8	*99.1*			*80.0-120*		*04/30/2025 15:59*	WG2503621
(S) 4-Bromofluorobenzene	*98.9*			*77.0-126*		*04/30/2025 15:59*	WG2503621
(S) 1,2-Dichloroethane-d4	*127*			*70.0-130*		*04/30/2025 15:59*	WG2503621

Method Blank (MB)

(MB) R4208039-1 04/30/25 13:34

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1853216-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1853216-03 04/30/25 13:34 • (DUP) R4208039-3 04/30/25 13:34

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.0	85.9	1	0.990		10

Laboratory Control Sample (LCS)

(LCS) R4208039-2 04/30/25 13:34

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4207959-1 04/30/25 19:38

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Ammonia Nitrogen	U		7190	10000

L1853208-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1853208-01 04/30/25 19:41 • (DUP) R4207959-3 04/30/25 19:42

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	U	U	1	0.000		20

L1853208-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1853208-02 04/30/25 19:44 • (DUP) R4207959-4 04/30/25 19:45

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4207959-2 04/30/25 19:39

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	250000	267000	107	90.0-110	

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 04/30/25 19:51 • (MS) R4207959-5 04/30/25 19:57 • (MSD) R4207959-6 04/30/25 19:59

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	294000	U	301000	292000	102	99.2	1	90.0-110			3.06	20

L1853226-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853226-03 04/30/25 20:24 • (MS) R4207959-7 04/30/25 20:26 • (MSD) R4207959-8 04/30/25 20:27

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Ammonia Nitrogen	272000	U	270000	280000	99.4	103	1	90.0-110			3.44	20

QUALITY CONTROL SUMMARY

L1853216-01,02,03

Method Blank (MB)

(MB) R4208489-1 05/01/25 17:05

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Kjeldahl Nitrogen, TKN	U		15200	20000

L1853208-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1853208-01 05/01/25 17:07 • (DUP) R4208489-5 05/01/25 17:08

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	1260000	1170000	10	7.63		20

L1853208-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1853208-02 05/01/25 17:09 • (DUP) R4208489-7 05/01/25 17:10

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	1390000	1560000	10	11.8		20

Laboratory Control Sample (LCS)

(LCS) R4208489-3 05/01/25 17:05

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	480000	483000	101	81.7-124	

L1853208-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1853208-03 05/01/25 17:11 • (MS) R4208489-9 05/01/25 17:12

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Kjeldahl Nitrogen, TKN	441000	1400000	1570000	39.4	10	81.7-124	J6

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 05/01/25 17:15 • (MS) R4208489-11 05/01/25 17:16 • (MSD) R4208489-13 05/01/25 17:19

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Kjeldahl Nitrogen, TKN	470000	2240000	2630000	2610000	81.4	78.3	10	81.7-124	V	V	0.566	20

Method Blank (MB)

(MB) R4207888-2 04/30/25 16:45

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Nitrate-Nitrite	709	J	606	20000

Laboratory Control Sample (LCS)

(LCS) R4207888-1 04/30/25 16:32

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	40000	39000	97.6	80.0-120	

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 04/30/25 18:02 • (MS) R4207888-3 04/30/25 18:15 • (MSD) R4207888-4 04/30/25 18:27

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	47000	88300	137000	130000	103	88.1	1	80.0-120			5.39	15

Method Blank (MB)

(MB) R4208288-1 05/01/25 13:40

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
TOC By Walkley Black	U		25500	100000

L1853216-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1853216-02 05/01/25 13:41 • (DUP) R4208288-3 05/01/25 13:42

Analyte	Original Result ug/kg	DUP Result ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC By Walkley Black	17100000	18200000	5	6.07		20

L1853219-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1853219-02 05/01/25 13:48 • (DUP) R4208288-4 05/01/25 13:48

Analyte	Original Result ug/kg	DUP Result ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC By Walkley Black	3600000	4290000	5	17.3		20

Laboratory Control Sample (LCS)

(LCS) R4208288-2 05/01/25 13:40

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC By Walkley Black	3230000	4250000	131	75.0-144	

L1853226-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853226-03 05/01/25 14:04 • (MS) R4208288-5 05/01/25 14:04 • (MSD) R4208288-6 05/01/25 14:05

Analyte	Spike Amount ug/kg	Original Result ug/kg	MS Result ug/kg	MSD Result ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC By Walkley Black	20000000	19700000	38900000	40300000	95.7	103	5	80.0-120			3.67	20

Method Blank (MB)

(MB) R4208486-1 05/01/25 17:26

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
TOC By Walkley Black	U		25500	100000

L1853270-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1853270-01 05/01/25 17:37 • (DUP) R4208486-9 05/01/25 17:38

Analyte	Original Result ug/kg	DUP Result ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC By Walkley Black	48600000	45200000	9	7.26		20

Laboratory Control Sample (LCS)

(LCS) R4208486-2 05/01/25 17:26

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC By Walkley Black	3230000	3950000	122	75.0-144	

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 05/01/25 17:28 • (MS) R4208486-3 05/01/25 17:29 • (MSD) R4208486-4 05/01/25 17:29

Analyte	Spike Amount ug/kg	Original Result ug/kg	MS Result ug/kg	MSD Result ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC By Walkley Black	40000000	33600000	74300000	69800000	102	101	10	80.0-120			6.20	20

L1853231-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853231-05 05/01/25 17:29 • (MS) R4208486-5 05/01/25 17:30 • (MSD) R4208486-6 05/01/25 17:31

Analyte	Spike Amount ug/kg	Original Result ug/kg	MS Result ug/kg	MSD Result ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC By Walkley Black	20000000	20200000	41400000	40200000	106	100	5	80.0-120			2.75	20

L1853258-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853258-01 05/01/25 17:34 • (MS) R4208486-7 05/01/25 17:36 • (MSD) R4208486-8 05/01/25 17:36

Analyte	Spike Amount ug/kg	Original Result ug/kg	MS Result ug/kg	MSD Result ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC By Walkley Black	20000000	15400000	37300000	35200000	110	99.3	5	80.0-120			5.85	20

Method Blank (MB)

(MB) R4207786-1 04/30/25 15:30

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Aluminum	U		6080	20000
Antimony	U		691	2000
Beryllium	U		47.7	200
Calcium	U		19000	100000
Cobalt	U		177	1000
Iron	U		2240	10000
Magnesium	U		19900	100000
Manganese	U		173	1000
Potassium	U		20900	100000
Sodium	U		41200	100000
Thallium	U		518	2000
Vanadium	U		383	2000

Laboratory Control Sample (LCS)

(LCS) R4207786-2 04/30/25 15:32

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1000000	950000	95.0	80.0-120	
Antimony	100000	96600	96.6	80.0-120	
Beryllium	100000	106000	106	80.0-120	
Calcium	1000000	1030000	103	80.0-120	
Cobalt	100000	99100	99.1	80.0-120	
Iron	1000000	1030000	103	80.0-120	
Magnesium	1000000	967000	96.7	80.0-120	
Manganese	100000	107000	107	80.0-120	
Potassium	1000000	1000000	100	80.0-120	
Sodium	1000000	1120000	112	80.0-120	
Thallium	100000	106000	106	80.0-120	
Vanadium	100000	101000	101	80.0-120	

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 04/30/25 15:34 • (MS) R4207786-5 04/30/25 15:39 • (MSD) R4207786-6 04/30/25 15:41

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1180000	2430000	4570000	3810000	182	117	1	75.0-125	J5		18.2	20
Antimony	118000	U	93800	94100	79.7	80.0	1	75.0-125			0.337	20

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 04/30/25 15:34 • (MS) R4207786-5 04/30/25 15:39 • (MSD) R4207786-6 04/30/25 15:41

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Beryllium	118000	469	118000	116000	99.5	98.5	1	75.0-125			1.09	20
Calcium	1180000	5640000	6090000	5930000	38.4	24.5	1	75.0-125	V	V	2.71	20
Cobalt	118000	3210	116000	115000	95.9	95.0	1	75.0-125			0.913	20
Iron	1180000	3390000	6350000	4660000	252	108	1	75.0-125	J5	J3	30.7	20
Magnesium	1180000	1670000	3080000	2770000	120	94.0	1	75.0-125			10.4	20
Manganese	118000	218000	327000	308000	92.6	76.3	1	75.0-125			6.01	20
Potassium	1180000	3010000	3880000	3760000	74.4	64.2	1	75.0-125	J6	J6	3.14	20
Sodium	1180000	600000	1700000	1700000	93.2	93.8	1	75.0-125			0.394	20
Thallium	118000	U	116000	116000	98.9	98.5	1	75.0-125			0.380	20
Vanadium	118000	9780	122000	119000	95.3	93.0	1	75.0-125			2.29	20

Method Blank (MB)

(MB) R4207819-2 04/30/25 10:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

Method Blank (MB)

(MB) R4207819-2 04/30/25 10:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4207819-1 04/30/25 09:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	21.9	87.6	19.0-160	J
Acrolein	25.0	64.8	259	10.0-160	J4
Acrylonitrile	25.0	18.6	74.4	55.0-149	
Benzene	5.00	4.06	81.2	70.0-123	

Laboratory Control Sample (LCS)

(LCS) R4207819-1 04/30/25 09:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromobenzene	5.00	4.90	98.0	73.0-121	
Bromodichloromethane	5.00	4.69	93.8	75.0-120	
Bromoform	5.00	5.23	105	68.0-132	
Bromomethane	5.00	4.95	99.0	10.0-160	J
n-Butylbenzene	5.00	4.97	99.4	73.0-125	
sec-Butylbenzene	5.00	4.64	92.8	75.0-125	
tert-Butylbenzene	5.00	5.10	102	76.0-124	
Carbon tetrachloride	5.00	5.36	107	68.0-126	
Chlorobenzene	5.00	4.35	87.0	80.0-121	
Chlorodibromomethane	5.00	4.70	94.0	77.0-125	
Chloroethane	5.00	4.15	83.0	47.0-150	J
Chloroform	5.00	4.81	96.2	73.0-120	J
Chloromethane	5.00	4.34	86.8	41.0-142	
2-Chlorotoluene	5.00	5.00	100	76.0-123	
4-Chlorotoluene	5.00	4.89	97.8	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	5.14	103	58.0-134	
1,2-Dibromoethane	5.00	4.31	86.2	80.0-122	
Dibromomethane	5.00	5.27	105	80.0-120	
1,2-Dichlorobenzene	5.00	4.85	97.0	79.0-121	
1,3-Dichlorobenzene	5.00	4.79	95.8	79.0-120	
1,4-Dichlorobenzene	5.00	4.54	90.8	79.0-120	
Dichlorodifluoromethane	5.00	6.70	134	51.0-149	
1,1-Dichloroethane	5.00	4.13	82.6	70.0-126	
1,2-Dichloroethane	5.00	4.42	88.4	70.0-128	
1,1-Dichloroethene	5.00	4.35	87.0	71.0-124	
cis-1,2-Dichloroethene	5.00	4.45	89.0	73.0-120	
trans-1,2-Dichloroethene	5.00	4.72	94.4	73.0-120	
1,2-Dichloropropane	5.00	3.88	77.6	77.0-125	
1,1-Dichloropropene	5.00	4.51	90.2	74.0-126	
1,3-Dichloropropane	5.00	4.59	91.8	80.0-120	
cis-1,3-Dichloropropene	5.00	4.76	95.2	80.0-123	
trans-1,3-Dichloropropene	5.00	4.87	97.4	78.0-124	
2,2-Dichloropropane	5.00	6.19	124	58.0-130	
Di-isopropyl ether	5.00	3.42	68.4	58.0-138	
Ethylbenzene	5.00	4.83	96.6	79.0-123	
Hexachloro-1,3-butadiene	5.00	6.97	139	54.0-138	J4
Isopropylbenzene	5.00	5.06	101	76.0-127	
p-Isopropyltoluene	5.00	4.81	96.2	76.0-125	
2-Butanone (MEK)	25.0	14.9	59.6	44.0-160	
Methylene Chloride	5.00	4.66	93.2	67.0-120	J

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS)

(LCS) R4207819-1 04/30/25 09:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	25.0	17.7	70.8	68.0-142	
Methyl tert-butyl ether	5.00	5.27	105	68.0-125	
Naphthalene	5.00	5.59	112	54.0-135	
n-Propylbenzene	5.00	4.69	93.8	77.0-124	
Styrene	5.00	4.74	94.8	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.75	95.0	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.24	84.8	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	5.98	120	69.0-132	
Tetrachloroethene	5.00	5.00	100	72.0-132	
Toluene	5.00	4.49	89.8	79.0-120	
1,2,3-Trichlorobenzene	5.00	5.35	107	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.41	108	57.0-137	
1,1,1-Trichloroethane	5.00	5.66	113	73.0-124	
1,1,2-Trichloroethane	5.00	4.42	88.4	80.0-120	
Trichloroethene	5.00	4.33	86.6	78.0-124	
Trichlorofluoromethane	5.00	6.25	125	59.0-147	
1,2,3-Trichloropropane	5.00	4.99	99.8	73.0-130	
1,2,4-Trimethylbenzene	5.00	5.08	102	76.0-121	
1,2,3-Trimethylbenzene	5.00	5.13	103	77.0-120	
1,3,5-Trimethylbenzene	5.00	5.27	105	76.0-122	
Vinyl chloride	5.00	4.33	86.6	67.0-131	
Xylenes, Total	15.0	14.6	97.3	79.0-123	
(S) Toluene-d8			*99.9*	*80.0-120*	
(S) 4-Bromofluorobenzene			*101*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*115*	*70.0-130*	

Method Blank (MB)

(MB) R4207895-2 04/30/25 12:29

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Acetone	U		36.5	50.0
Acrylonitrile	U		3.61	12.5
Bromobenzene	U		0.900	12.5
Bromodichloromethane	U		0.725	2.50
Bromoform	U		1.17	25.0
Bromomethane	U		1.97	12.5
n-Butylbenzene	U		5.25	12.5
sec-Butylbenzene	U		2.88	12.5
tert-Butylbenzene	U		1.95	5.00
Carbon tetrachloride	U		0.898	5.00
Chlorobenzene	U		0.210	2.50
Chlorodibromomethane	U		0.612	2.50
Chloroethane	U		1.70	5.00
Chloroform	U		1.03	2.50
Chloromethane	U		4.35	12.5
2-Chlorotoluene	U		0.865	2.50
4-Chlorotoluene	U		0.450	5.00
1,2-Dibromo-3-Chloropropane	U		3.90	25.0
1,2-Dibromoethane	U		0.648	2.50
Dibromomethane	U		0.750	5.00
1,2-Dichlorobenzene	U		0.425	5.00
1,3-Dichlorobenzene	U		0.600	5.00
1,4-Dichlorobenzene	U		0.700	5.00
Dichlorodifluoromethane	U		1.61	5.00
1,1-Dichloroethane	U		0.491	2.50
1,2-Dichloroethane	U		0.649	2.50
1,1-Dichloroethene	U		0.606	2.50
cis-1,2-Dichloroethene	U		0.734	2.50
trans-1,2-Dichloroethene	U		1.04	5.00
1,2-Dichloropropane	U		1.42	5.00
1,1-Dichloropropene	U		0.809	2.50
1,3-Dichloropropane	U		0.501	5.00
cis-1,3-Dichloropropene	U		0.757	2.50
trans-1,3-Dichloropropene	U		1.14	5.00
2,2-Dichloropropane	U		1.38	2.50
Di-isopropyl ether	U		0.410	1.00
Hexachloro-1,3-butadiene	U		6.00	25.0
Isopropylbenzene	U		0.425	2.50
p-Isopropyltoluene	U		2.55	5.00
2-Butanone (MEK)	U		63.5	100

Method Blank (MB)

(MB) R4207895-2 04/30/25 12:29

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Methylene Chloride	U		6.64	25.0
4-Methyl-2-pentanone (MIBK)	U		2.28	25.0
Methyl tert-butyl ether	U		0.350	1.00
n-Propylbenzene	U		0.950	5.00
Styrene	U		0.229	12.5
1,1,1,2-Tetrachloroethane	U		0.948	2.50
1,1,2,2-Tetrachloroethane	U		0.695	2.50
1,1,2-Trichlorotrifluoroethane	U		0.754	2.50
Tetrachloroethene	U		0.896	2.50
1,2,3-Trichlorobenzene	U		7.33	12.5
1,2,4-Trichlorobenzene	U		4.40	12.5
1,1,1-Trichloroethane	U		0.923	2.50
1,1,2-Trichloroethane	U		0.597	2.50
Trichloroethene	U		0.584	1.00
Trichlorofluoromethane	U		0.827	2.50
1,2,3-Trichloropropane	U		1.62	12.5
1,2,3-Trimethylbenzene	U		1.58	5.00
Vinyl chloride	U		1.16	2.50
(S) Toluene-d8	*111*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*81.9*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4207895-1 04/30/25 11:09

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	625	591	94.6	10.0-160	
Acrylonitrile	625	521	83.4	45.0-153	
Bromobenzene	125	136	109	73.0-121	
Bromodichloromethane	125	110	88.0	73.0-121	
Bromoform	125	128	102	64.0-132	
Bromomethane	125	39.1	31.3	56.0-147	J4
n-Butylbenzene	125	124	99.2	68.0-135	
sec-Butylbenzene	125	132	106	74.0-130	
tert-Butylbenzene	125	135	108	75.0-127	
Carbon tetrachloride	125	119	95.2	66.0-128	
Chlorobenzene	125	146	117	76.0-128	
Chlorodibromomethane	125	138	110	74.0-127	

Laboratory Control Sample (LCS)

(LCS) R4207895-1 04/30/25 11:09

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloroethane	125	113	90.4	61.0-134	
Chloroform	125	109	87.2	72.0-123	
Chloromethane	125	81.1	64.9	51.0-138	
2-Chlorotoluene	125	137	110	75.0-124	
4-Chlorotoluene	125	128	102	75.0-124	
1,2-Dibromo-3-Chloropropane	125	114	91.2	59.0-130	
1,2-Dibromoethane	125	139	111	74.0-128	
Dibromomethane	125	117	93.6	75.0-122	
1,2-Dichlorobenzene	125	136	109	76.0-124	
1,3-Dichlorobenzene	125	146	117	76.0-125	
1,4-Dichlorobenzene	125	142	114	77.0-121	
Dichlorodifluoromethane	125	106	84.8	43.0-156	
1,1-Dichloroethane	125	106	84.8	70.0-127	
1,2-Dichloroethane	125	97.7	78.2	65.0-131	
1,1-Dichloroethene	125	102	81.6	65.0-131	
cis-1,2-Dichloroethene	125	122	97.6	73.0-125	
trans-1,2-Dichloroethene	125	114	91.2	71.0-125	
1,2-Dichloropropane	125	104	83.2	74.0-125	
1,1-Dichloropropene	125	115	92.0	73.0-125	
1,3-Dichloropropane	125	135	108	80.0-125	
cis-1,3-Dichloropropene	125	114	91.2	76.0-127	
trans-1,3-Dichloropropene	125	125	100	73.0-127	
2,2-Dichloropropane	125	110	88.0	59.0-135	
Di-isopropyl ether	125	96.6	77.3	60.0-136	
Hexachloro-1,3-butadiene	125	99.2	79.4	57.0-150	
Isopropylbenzene	125	147	118	72.0-127	
p-Isopropyltoluene	125	135	108	72.0-133	
2-Butanone (MEK)	625	508	81.3	30.0-160	
Methylene Chloride	125	113	90.4	68.0-123	
4-Methyl-2-pentanone (MIBK)	625	586	93.8	56.0-143	
Methyl tert-butyl ether	125	120	96.0	66.0-132	
n-Propylbenzene	125	138	110	74.0-126	
Styrene	125	137	110	72.0-127	
1,1,1,2-Tetrachloroethane	125	133	106	74.0-129	
1,1,2,2-Tetrachloroethane	125	123	98.4	68.0-128	
1,1,2-Trichlorotrifluoroethane	125	124	99.2	61.0-139	
Tetrachloroethene	125	151	121	70.0-136	
1,2,3-Trichlorobenzene	125	132	106	59.0-139	
1,2,4-Trichlorobenzene	125	129	103	62.0-137	
1,1,1-Trichloroethane	125	110	88.0	69.0-126	

Laboratory Control Sample (LCS)

(LCS) R4207895-1 04/30/25 11:09

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,2-Trichloroethane	125	136	109	78.0-123	
Trichloroethene	125	128	102	76.0-126	
Trichlorofluoromethane	125	123	98.4	61.0-142	
1,2,3-Trichloropropane	125	132	106	67.0-129	
1,2,3-Trimethylbenzene	125	135	108	74.0-124	
Vinyl chloride	125	101	80.8	63.0-134	
(S) Toluene-d8			*109*	*75.0-131*	
(S) 4-Bromofluorobenzene			*95.9*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*87.6*	*70.0-130*	

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 04/30/25 17:01 • (MS) R4207895-3 04/30/25 18:41 • (MSD) R4207895-4 04/30/25 19:01

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	845	U	670	472	79.2	55.8	1	10.0-160			34.6	40
Acrylonitrile	845	U	633	607	74.9	71.8	1	10.0-160			4.14	40
Bromobenzene	169	U	154	125	91.2	73.7	1	10.0-156			21.3	38
Bromodichloromethane	169	U	115	93.5	68.1	55.3	1	10.0-143			20.8	37
Bromoform	169	U	137	115	80.8	68.2	1	10.0-146			16.9	36
Bromomethane	169	U	13.2	18.4	7.80	10.9	1	10.0-149	J J6		33.0	38
n-Butylbenzene	169	U	137	94.2	80.8	55.7	1	10.0-160			36.8	40
sec-Butylbenzene	169	U	139	94.8	82.4	56.1	1	10.0-159			38.0	39
tert-Butylbenzene	169	U	147	103	87.2	60.7	1	10.0-156			35.8	39
Carbon tetrachloride	169	U	110	72.6	64.9	43.0	1	10.0-145		J3	40.7	37
Chlorobenzene	169	U	160	123	94.4	73.0	1	10.0-152			25.6	39
Chlorodibromomethane	169	U	143	127	84.8	75.3	1	10.0-146			11.9	37
Chloroethane	169	U	16.9	12.3	10.0	7.26	1	10.0-146		J6	31.7	40
Chloroform	169	U	113	89.1	66.6	52.7	1	10.0-146			23.2	37
Chloromethane	169	U	72.8	51.3	43.0	30.3	1	10.0-159			34.7	37
2-Chlorotoluene	169	U	149	108	88.0	63.9	1	10.0-159			31.7	38
4-Chlorotoluene	169	U	141	111	83.2	65.4	1	10.0-155			24.0	39
1,2-Dibromo-3-Chloropropane	169	U	126	111	74.8	65.8	1	10.0-151			12.7	39
1,2-Dibromoethane	169	U	157	138	92.8	81.6	1	10.0-148			12.8	34
Dibromomethane	169	U	130	114	76.8	67.3	1	10.0-147			13.2	35
1,2-Dichlorobenzene	169	U	160	130	94.4	77.1	1	10.0-155			20.1	37
1,3-Dichlorobenzene	169	U	164	132	96.8	78.2	1	10.0-153			21.2	38
1,4-Dichlorobenzene	169	U	162	131	96.0	77.3	1	10.0-151			21.6	38
Dichlorodifluoromethane	169	U	107	59.8	63.0	35.4	1	10.0-160		J3	56.3	35

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 04/30/25 17:01 • (MS) R4207895-3 04/30/25 18:41 • (MSD) R4207895-4 04/30/25 19:01

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1-Dichloroethane	169	U	104	77.1	61.7	45.6	1	10.0-147			30.0	37
1,2-Dichloroethane	169	U	107	92.4	63.0	54.6	1	10.0-148			14.3	35
1,1-Dichloroethene	169	U	94.2	62.1	55.7	36.7	1	10.0-155		J3	41.0	37
cis-1,2-Dichloroethene	169	U	130	96.6	76.8	57.1	1	10.0-149			29.4	37
trans-1,2-Dichloroethene	169	U	111	79.0	65.6	46.7	1	10.0-150			33.6	37
1,2-Dichloropropane	169	U	112	91.3	66.2	54.0	1	10.0-148			20.2	37
1,1-Dichloropropene	169	U	110	76.3	65.1	45.1	1	10.0-153		J3	36.3	35
1,3-Dichloropropane	169	U	161	141	95.2	83.2	1	10.0-154			13.5	35
cis-1,3-Dichloropropene	169	U	121	105	71.8	61.8	1	10.0-151			14.9	37
trans-1,3-Dichloropropene	169	U	139	117	82.4	69.1	1	10.0-148			17.5	37
2,2-Dichloropropane	169	U	110	75.6	65.0	44.7	1	10.0-138		J3	37.0	36
Di-isopropyl ether	169	U	102	85.4	60.3	50.5	1	10.0-147			17.8	36
Hexachloro-1,3-butadiene	169	U	115	74.4	67.8	44.0	1	10.0-160		J3	42.6	40
Isopropylbenzene	169	U	153	111	90.4	65.8	1	10.0-155			31.6	38
p-Isopropyltoluene	169	U	145	100	85.6	59.2	1	10.0-160			36.5	40
2-Butanone (MEK)	845	U	472	491	55.8	58.1	1	10.0-160			3.93	40
Methylene Chloride	169	U	124	100	73.2	59.1	1	10.0-141			21.3	37
4-Methyl-2-pentanone (MIBK)	845	U	708	659	83.7	77.9	1	10.0-160			7.13	35
Methyl tert-butyl ether	169	U	138	124	81.6	73.2	1	11.0-147			10.9	35
n-Propylbenzene	169	U	146	101	86.4	59.8	1	10.0-158			36.3	38
Styrene	169	U	153	120	90.4	71.1	1	10.0-160			23.9	40
1,1,1,2-Tetrachloroethane	169	U	143	116	84.8	68.6	1	10.0-149			21.2	39
1,1,2,2-Tetrachloroethane	169	U	143	128	84.8	75.8	1	10.0-160			11.2	35
1,1,2-Trichlorotrifluoroethane	169	U	119	72.8	70.2	43.0	1	10.0-160		J3	48.0	36
Tetrachloroethene	169	U	143	98.8	84.8	58.4	1	10.0-156			36.9	39
1,2,3-Trichlorobenzene	169	U	133	115	78.4	68.0	1	10.0-160			14.2	40
1,2,4-Trichlorobenzene	169	U	147	119	87.2	70.4	1	10.0-160			21.3	40
1,1,1-Trichloroethane	169	U	109	71.6	64.4	42.3	1	10.0-144		J3	41.4	35
1,1,2-Trichloroethane	169	U	161	142	95.2	84.0	1	10.0-160			12.5	35
Trichloroethene	169	U	130	94.7	77.1	56.0	1	10.0-156			31.7	38
Trichlorofluoromethane	169	U	24.3	17.5	14.4	10.3	1	10.0-160			33.0	40
1,2,3-Trichloropropane	169	U	165	147	97.6	87.2	1	10.0-156			11.3	35
1,2,3-Trimethylbenzene	169	U	150	118	88.8	69.9	1	10.0-160			23.8	36
Vinyl chloride	169	U	99.6	62.4	58.9	36.9	1	10.0-160		J3	45.9	37
(S) Toluene-d8					*111*	*111*		*75.0-131*				
(S) 4-Bromofluorobenzene					*100*	*98.4*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*83.1*	*84.1*		*70.0-130*				

Method Blank (MB)

(MB) R4207985-2 04/30/25 20:52

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Acenaphthylene	U		4.69	33.3
Benzidine	U		62.6	1670
Benzo(g,h,i)perylene	U		6.09	33.3
Bis(2-chlorethoxy)methane	U		10.0	333
Bis(2-chloroethyl)ether	U		11.0	333
2,2-Oxybis(1-Chloropropane)	U		14.4	333
4-Bromophenyl-phenylether	U		11.7	333
2-Chloronaphthalene	U		5.85	33.3
4-Chlorophenyl-phenylether	U		11.6	333
1,2-Dichlorobenzene	U		9.87	333
1,3-Dichlorobenzene	U		10.1	333
1,4-Dichlorobenzene	U		9.91	333
3,3-Dichlorobenzidine	U		12.3	333
2,4-Dinitrotoluene	U		9.55	333
2,6-Dinitrotoluene	U		10.9	333
Hexachlorobenzene	U		11.8	333
Hexachloro-1,3-butadiene	U		11.2	333
Hexachlorocyclopentadiene	U		17.5	333
Hexachloroethane	U		13.1	333
Isophorone	U		10.2	333
Nitrobenzene	U		11.6	333
n-Nitrosodimethylamine	U		49.4	333
n-Nitrosodiphenylamine	U		25.2	333
n-Nitrosodi-n-propylamine	U		11.1	333
Phenanthrene	U		6.61	33.3
Benzylbutyl phthalate	U		10.4	333
Bis(2-ethylhexyl)phthalate	U		42.2	333
Di-n-butyl phthalate	U		11.4	333
Diethyl phthalate	U		11.0	333
Dimethyl phthalate	U		70.6	333
Di-n-octyl phthalate	U		22.5	333
1,2,4-Trichlorobenzene	U		10.4	333
4-Chloro-3-methylphenol	U		10.8	333
2-Chlorophenol	U		11.0	333
2,4-Dichlorophenol	U		9.70	333
2,4-Dimethylphenol	U		8.70	333
4,6-Dinitro-2-methylphenol	U		75.5	333
2,4-Dinitrophenol	U		77.9	333
2-Nitrophenol	U		11.9	333
4-Nitrophenol	U		10.4	333

Method Blank (MB)

(MB) R4207985-2 04/30/25 20:52

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Pentachlorophenol	U		8.96	333
Phenol	U		13.4	333
2,4,6-Trichlorophenol	U		10.7	333
(S) 2-Fluorophenol	*84.4*			*12.0-120*
(S) Phenol-d5	*77.8*			*10.0-120*
(S) Nitrobenzene-d5	*78.7*			*10.0-122*
(S) 2-Fluorobiphenyl	*76.6*			*15.0-120*
(S) 2,4,6-Tribromophenol	*78.7*			*10.0-127*
(S) p-Terphenyl-d14	*80.8*			*10.0-120*

Laboratory Control Sample (LCS)

(LCS) R4207985-1 04/30/25 20:31

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthylene	666	573	86.0	40.0-120	
Benzidine	1330	491	36.9	10.0-120	J
Benzo(g,h,i)perylene	666	525	78.8	43.0-120	
Bis(2-chlorethoxy)methane	666	394	59.2	20.0-120	
Bis(2-chloroethyl)ether	666	458	68.8	16.0-120	
2,2-Oxybis(1-Chloropropane)	666	471	70.7	23.0-120	
4-Bromophenyl-phenylether	666	525	78.8	40.0-120	
2-Chloronaphthalene	666	485	72.8	35.0-120	
4-Chlorophenyl-phenylether	666	526	79.0	40.0-120	
1,2-Dichlorobenzene	666	455	68.3	32.0-120	
1,3-Dichlorobenzene	666	437	65.6	30.0-120	
1,4-Dichlorobenzene	666	459	68.9	31.0-120	
3,3-Dichlorobenzidine	1330	1050	78.9	28.0-120	
2,4-Dinitrotoluene	666	619	92.9	45.0-120	
2,6-Dinitrotoluene	666	574	86.2	42.0-120	
Hexachlorobenzene	666	476	71.5	39.0-120	
Hexachloro-1,3-butadiene	666	357	53.6	15.0-120	
Hexachlorocyclopentadiene	666	423	63.5	15.0-120	
Hexachloroethane	666	460	69.1	17.0-120	
Isophorone	666	435	65.3	23.0-120	
Nitrobenzene	666	420	63.1	17.0-120	
n-Nitrosodimethylamine	666	541	81.2	10.0-125	
n-Nitrosodiphenylamine	666	517	77.6	40.0-120	
n-Nitrosodi-n-propylamine	666	497	74.6	26.0-120	

Laboratory Control Sample (LCS)

(LCS) R4207985-1 04/30/25 20:31

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phenanthrene	666	503	75.5	42.0-120	
Benzylbutyl phthalate	666	614	92.2	40.0-120	
Bis(2-ethylhexyl)phthalate	666	632	94.9	41.0-120	
Di-n-butyl phthalate	666	552	82.9	43.0-120	
Diethyl phthalate	666	592	88.9	43.0-120	
Dimethyl phthalate	666	575	86.3	43.0-120	
Di-n-octyl phthalate	666	611	91.7	40.0-120	
1,2,4-Trichlorobenzene	666	392	58.9	17.0-120	
4-Chloro-3-methylphenol	666	398	59.8	28.0-120	
2-Chlorophenol	666	444	66.7	28.0-120	
2,4-Dichlorophenol	666	380	57.1	25.0-120	
2,4-Dimethylphenol	666	351	52.7	15.0-120	
4,6-Dinitro-2-methylphenol	666	472	70.9	16.0-120	
2,4-Dinitrophenol	666	347	52.1	10.0-120	
2-Nitrophenol	666	458	68.8	20.0-120	
4-Nitrophenol	666	615	92.3	27.0-120	
Pentachlorophenol	666	333	50.0	29.0-120	J
Phenol	666	472	70.9	28.0-120	
2,4,6-Trichlorophenol	666	452	67.9	37.0-120	
(S) 2-Fluorophenol			*87.2*	*12.0-120*	
(S) Phenol-d5			*80.0*	*10.0-120*	
(S) Nitrobenzene-d5			*63.7*	*10.0-122*	
(S) 2-Fluorobiphenyl			*78.1*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*82.3*	*10.0-127*	
(S) p-Terphenyl-d14			*79.6*	*10.0-120*	

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 05/01/25 00:20 • (MS) R4207985-3 05/01/25 00:41 • (MSD) R4207985-4 05/01/25 01:02

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthylene	764	U	619	562	80.9	73.3	2	25.0-120			9.56	32
Benzidine	1530	U	U	U	0.000	0.000	2	10.0-120	J6	J6	0.000	40
Benzo(g,h,i)perylene	764	U	481	443	62.9	57.8	2	10.0-120			8.14	33
Bis(2-chlorethoxy)methane	764	U	465	436	60.8	56.9	2	10.0-120	J	J	6.27	34
Bis(2-chloroethyl)ether	764	U	515	507	67.4	66.1	2	10.0-120	J	J	1.61	40
2,2-Oxybis(1-Chloropropane)	764	U	494	480	64.6	62.6	2	10.0-120	J	J	2.90	40
4-Bromophenyl-phenylether	764	U	581	512	76.0	66.7	2	27.0-120	J	J	12.7	30
2-Chloronaphthalene	764	U	519	476	67.8	62.1	2	20.0-120			8.51	32

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 05/01/25 00:20 • (MS) R4207985-3 05/01/25 00:41 • (MSD) R4207985-4 05/01/25 01:02

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	764	U	585	528	76.5	68.9	2	24.0-120	J	J	10.1	29
1,2-Dichlorobenzene	764	U	461	436	60.3	56.9	2	10.0-120	J	J	5.50	38
1,3-Dichlorobenzene	764	U	429	421	56.2	54.9	2	10.0-120	J	J	1.94	40
1,4-Dichlorobenzene	764	U	463	453	60.6	59.0	2	10.0-120	J	J	2.31	39
3,3-Dichlorobenzidine	1530	U	692	599	45.2	39.2	2	10.0-120	J	J	14.4	34
2,4-Dinitrotoluene	764	U	649	606	84.9	79.0	2	30.0-120	J	J	6.94	31
2,6-Dinitrotoluene	764	U	617	557	80.8	72.7	2	25.0-120	J	J	10.2	31
Hexachlorobenzene	764	U	521	466	68.2	60.7	2	27.0-120	J	J	11.2	28
Hexachloro-1,3-butadiene	764	U	412	383	53.8	50.0	2	10.0-120	J	J	7.10	38
Hexachlorocyclopentadiene	764	U	U	U	2.32	3.25	2	10.0-120	J J6	J J6	33.6	40
Hexachloroethane	764	U	258	239	33.7	31.1	2	10.0-120	J	J	7.58	40
Isophorone	764	U	507	463	66.3	60.4	2	13.0-120	J	J	8.97	34
Nitrobenzene	764	U	478	463	62.5	60.4	2	10.0-120	J	J	3.00	36
n-Nitrosodimethylamine	764	U	543	500	71.1	65.2	2	10.0-127	J	J	8.34	40
n-Nitrosodiphenylamine	764	U	582	515	76.2	67.2	2	17.0-120	J	J	12.2	29
n-Nitrosodi-n-propylamine	764	U	520	489	68.0	63.8	2	10.0-120	J	J	6.06	37
Phenanthrene	764	U	549	494	71.8	64.4	2	17.0-120			10.6	31
Benzylbutyl phthalate	764	U	714	652	93.4	85.0	2	23.0-120	J	J	9.13	30
Bis(2-ethylhexyl)phthalate	764	U	724	672	94.8	87.6	2	17.0-126	J	J	7.58	30
Di-n-butyl phthalate	764	U	629	577	82.3	75.3	2	30.0-120	J	J	8.58	29
Diethyl phthalate	764	U	656	585	85.8	76.2	2	26.0-120	J	J	11.6	28
Dimethyl phthalate	764	U	613	552	80.2	71.9	2	25.0-120	J	J	10.5	29
Di-n-octyl phthalate	764	U	722	669	94.5	87.3	2	21.0-123	J	J	7.61	29
1,2,4-Trichlorobenzene	764	U	458	428	59.8	55.8	2	12.0-120	J	J	6.64	37
4-Chloro-3-methylphenol	764	U	513	463	67.1	60.4	2	15.0-120	J	J	10.1	30
2-Chlorophenol	764	U	478	447	62.5	58.3	2	15.0-120	J	J	6.62	37
2,4-Dichlorophenol	764	U	476	452	62.3	58.9	2	20.0-120	J	J	5.32	31
2,4-Dimethylphenol	764	U	439	412	57.4	53.7	2	10.0-120	J	J	6.36	33
4,6-Dinitro-2-methylphenol	764	U	440	374	57.5	48.8	2	10.0-120	J	J	16.2	39
2,4-Dinitrophenol	764	U	382	327	50.0	42.6	2	10.0-121	J	J	15.6	40
2-Nitrophenol	764	U	536	508	70.2	66.3	2	12.0-120	J	J	5.41	39
4-Nitrophenol	764	U	730	663	95.5	86.5	2	10.0-137	J	J	9.62	32
Pentachlorophenol	764	U	375	320	49.1	41.7	2	10.0-160	J	J	15.9	31
Phenol	764	U	505	472	66.0	61.5	2	12.0-120	J	J	6.75	38
2,4,6-Trichlorophenol	764	U	533	488	69.7	63.7	2	19.0-120	J	J	8.76	32
(S) 2-Fluorophenol					*77.5*	*72.8*		*12.0-120*				
(S) Phenol-d5					*72.5*	*68.2*		*10.0-120*				
(S) Nitrobenzene-d5					*63.1*	*56.7*		*10.0-122*				
(S) 2-Fluorobiphenyl					*70.8*	*63.8*		*15.0-120*				

L1853216-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853216-03 05/01/25 00:20 • (MS) R4207985-3 05/01/25 00:41 • (MSD) R4207985-4 05/01/25 01:02

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
(S) 2,4,6-Tribromophenol					*78.8*	*72.4*		*10.0-127*				
(S) p-Terphenyl-d14					*78.2*	*69.3*		*10.0-120*				

Sample Narrative:

OS: Dilution due to matrix impact during extraction procedure

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C7	The initial calibration verification standard (SSCV) associated with this data responded high.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace® Location Requested (City/State): Pace National, 12065 Lebanon Road, Mt. Juliet, TN 37122

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

L1853216

Scan QR Code for instructions

Company Name: CTEH, LLC
Street Address: 5120 North Shore Drive, North Little Rock, AR 72118
Customer Project #: PROJ-054017
Project Name: Bishop LOC
Site Collection Info/Facility ID (as applicable): Galeton, CO

Contact/Report To: Lab Results, Kyle Lawrence, Tami McMullin, Andy Henault, Eric Catlin, Madelyn Klinkerman
Phone #:
E-Mail: labresults@cteh.com; kylelawrence@cteh.com; tmcmullin@cteh.com; ahenault@cteh.com
Cc E-Mail: ecatlin@cteh.com; mklinkerman@cteh.com
Invoice to: CTEH
Invoice E-mail: ctehap@montrose-env.com
Purchase Order # (if applicable):
Quote #:

Time Zone Collected: [ ] AK [ ] PT [X] MT [ ] CT [ ] ET
County / State origin of sample(s): CO

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other
Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No
Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other ASAP
Date Results Requested:
DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Analysis: [ ] No [ ] Yes

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 8 oz | 8 oz | 8 oz | 8 oz | 6
**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other
Identify Container Preservative Type***: 1 | 1 | 1 | 1 | 4
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested: VOCs 8260D | SVOCs 8270E; Metals 6010D | Total N/TKN/N+N/NH3 EPA 351.2/9056A | TOC Walkley Black | VOCs 8260D

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units	VOCs 8260D	SVOCs 8270E; Metals 6010D	Total N/TKN/N+N/NH3 EPA 351.2/9056A	TOC Walkley Black	VOCs 8260D	Sample Comment
GACO0429T000S001	SS	G	-	-	4/29/2025	0920	3	-	-	X	X	X	X	-	01
GACO0429T000S002	SS	G	-	-	4/29/2025	0940	3	-	-	X	X	X	X	-	02
GACO0429T000S003	SS	G	-	-	4/29/2025	1000	3	-	-	X	X	X	X	-	03
GACO0429T000S003MS	SS	G	-	-	4/29/2025	1000	3	-	-	X	X	X	X	-	03
GACO0429T000S003MSD	SS	G	-	-	4/29/2025	1000	3	-	-	X	X	X	X	-	03
GACO0429T000T001	OT	G	-	-	4/29/2025	0730	2	-	-	-	-	-	-	X	04

Proj. Mgr: 546-Jared Starkey
AcctNum / Client ID: G076
Profile / Template: T271979
Prelog / Bottle Ord. ID:
Lab Use Only
Preservation non-conf. sample.

Additional Instructions from Pace®:
VOCs - full list minus BTEX, 1,2,4-TMB, 1,3,5-TMB; SVOCs - full list minus PAHs, 1-methylnaphthalene, 2-methylnaphthalene; Metals - TAL minus RCRA, Cu, Ni, Zn

Collected By:
Printed Name Signature: Sarah Krebsbach
Sarah Krebsbach

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C): | Corrected Temp. (°C): | [ ] On Ice

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Sarah Krebsbach	04/29/25 18:00	Pace	04/29/25 19:00
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 04/30/25 1120
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:
Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Page: of

Submitting a sample via this chainofcustody constitutesacknowledgmentand... found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

ENV-FRM-CORQ-0019_v02_110123 ©

Sample Receipt Checklist

COC Seal Present/Intact: Y N NP
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RA Screen <0.5 mR/hr: Y N
If Applicable
VOA Zero Headspace: Y N
Pres. Correct/Check: Y N
Condition: NCF OK