

**CTEH - ER**

Sample Delivery Group: L1865600  
Samples Received: 06/04/2025  
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

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**Pace Analytical National**

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

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# SAMPLE SUMMARY

GACO0603T172-1S001 L1865600-01

Collected by  
Collected date/time  
Received date/time

06/03/25 09:30 06/04/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2533097	1	06/07/25 21:30	06/07/25 21:30	BAG	Mt. Juliet, TN
Calculated Results	WG2530586	1	06/04/25 12:58	06/05/25 22:14	CAT	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2530371	1	06/04/25 10:25	06/04/25 10:37	KDW	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2530715	1	06/04/25 17:48	06/04/25 21:53	RTW	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2531195	5	06/05/25 17:42	06/05/25 22:14	CAT	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2530602	1	06/04/25 12:59	06/04/25 20:15	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2533678	1	06/08/25 13:52	06/08/25 16:05	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2533680	1	06/08/25 14:09	06/09/25 11:47	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2530586	5	06/04/25 12:58	06/05/25 01:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2530671	9	06/05/25 16:03	06/05/25 18:10	PAN	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2533334	5	06/07/25 18:06	06/07/25 20:14	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2531017	1	06/05/25 10:01	06/05/25 12:15	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2533973	5	06/09/25 12:46	06/09/25 23:21	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D	WG2530466	25	06/04/25 10:30	06/04/25 12:46	GLN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2530482	1	06/04/25 10:30	06/04/25 12:05	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2530585	2	06/04/25 13:16	06/04/25 21:51	KDB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2530611	2	06/04/25 13:14	06/04/25 21:37	NJK	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2530613	1	06/04/25 13:12	06/04/25 21:01	VDR	Mt. Juliet, TN

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

GACO0603T172-1S001 L1865600-02

Collected by  
Collected date/time  
Received date/time

06/03/25 09:30 06/04/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method DOE Ga-01-R/901.1	WG2531685	1	06/04/25 16:17	06/05/25 14:20	DDD	Mt. Juliet, TN

# CASE NARRATIVE

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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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



## Project Comments

L1865600-01 - Benzidine(0%) is reporting with critically low recovery in the laboratory control sample(s). This compound is a method defined poor performer. Results are estimated.

## Wet Chemistry by Method 4500NOrg D-2021

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2531195	(MS) R4226314-12	Kjeldahl Nitrogen, TKN
WG2531195	(MSD) R4226314-13	Kjeldahl Nitrogen, TKN
WG2531195	(MS) R4226314-6	Kjeldahl Nitrogen, TKN
WG2531195	(MSD) R4226314-7	Kjeldahl Nitrogen, TKN
WG2531195	(MS) R4226314-8	Kjeldahl Nitrogen, TKN

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

Batch	Lab Sample ID	Analytes
WG2531195	(MS) R4226314-12, (MSD) R4226314-13	Kjeldahl Nitrogen, TKN

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

Batch	Lab Sample ID	Analytes
WG2531195	(MS) R4226314-6, (MS) R4226314-8, (MSD) R4226314-7	Kjeldahl Nitrogen, TKN

## Wet Chemistry by Method 7199

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

Batch	Lab Sample ID	Analytes
WG2530602	(MS) R4225769-6, (MSD) R4225769-7	Hexavalent Chromium

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

Batch	Lab Sample ID	Analytes
WG2530602	(MSD) R4225769-7	Hexavalent Chromium

# CASE NARRATIVE

## Metals (ICP) by Method 6010D

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG2531017	Sodium	L1865600-01

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

Batch	Lab Sample ID	Analytes
WG2531017	(MS) R4226111-5, L1865600-01	Aluminum, Magnesium and Manganese

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

Batch	Lab Sample ID	Analytes
WG2531017	(MSD) R4226111-6, L1865600-01	Aluminum, Antimony, Magnesium, Manganese and Potassium

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

Batch	Lab Sample ID	Analytes
WG2531017	(MS) R4226111-5, (MSD) R4226111-6, L1865600-01	Calcium and Iron

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

Batch	Lab Sample ID	Analytes
WG2531017	(MSD) R4226111-6, L1865600-01	13 analytes

## Metals (ICPMS) by Method 6020

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

Batch	Lab Sample ID	Analytes
WG2533973	(MS) R4227869-5, (MSD) R4227869-6	Barium and Zinc

## 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
WG2530482	L1865600-01	1,1-Dichloroethene, 2-Butanone (MEK), 4-Methyl-2-pentanone (MIBK), Acetone, Acrylonitrile, Chloromethane and Di-isopropyl ether

## 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
WG2530611	L1865600-01	Di-n-octyl phthalate

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

Batch	Lab Sample ID	Analytes
WG2530611	L1865600-01	Hexachlorocyclopentadiene

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

Batch	Lab Sample ID	Analytes
WG2530611	(LCS) R4225708-1, L1865600-01	Benzidine

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

Batch	Lab Sample ID	Analytes
WG2530611	(MS) R4225708-3, (MSD) R4225708-4, L1865600-01	3,3-Dichlorobenzidine, Benzidine, Di-n-octyl phthalate, Hexachlorocyclopentadiene and n-Nitrosodimethylamine

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

Batch	Lab Sample ID	Analytes
WG2530611	(MSD) R4225708-4, L1865600-01	n-Nitrosodimethylamine



# DETECTION SUMMARY

## Calculated Results

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Total Nitrogen	3630		136	1	06/05/2025 22:14	<a href="#">WG2530586</a>

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

## Radiochemistry by Method DOE Ga-01-R/901.1

Client ID	Lab Sample ID	Analyte	Result pCi/g	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/g	Lc pCi/g	Analysis Date date / time	Batch
GACO0603T172-1S001	<a href="#">L1865600-02</a>	Actinium-228 (Ra-228)	0.898		0.273	0.273	0.533	0.240	06/05/2025 14:20	<a href="#">WG253168</a>
GACO0603T172-1S001	<a href="#">L1865600-02</a>	Bismuth-214 (Ra-226)	0.588		0.178	0.178	0.275	0.125	06/05/2025 14:20	<a href="#">WG253168</a>
GACO0603T172-1S001	<a href="#">L1865600-02</a>	Lead-214	0.624		0.160	0.160	0.264	0.121	06/05/2025 14:20	<a href="#">WG253168</a>
GACO0603T172-1S001	<a href="#">L1865600-02</a>	Thorium-234 (U-238)	-1.63	U	1.60	1.60	3.51	1.39	06/05/2025 14:20	<a href="#">WG253168</a>
GACO0603T172-1S001	<a href="#">L1865600-02</a>	Radium-226 (186 KeV)	1.21	J	0.921	0.921	1.69	0.791	06/05/2025 14:20	<a href="#">WG253168</a>

## Wet Chemistry by Method 4500NOrg D-2021

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Kjeldahl Nitrogen, TKN	3460		136	5	06/05/2025 22:14	<a href="#">WG2531195</a>

## Wet Chemistry by Method 9050AMod

Client ID	Lab Sample ID	Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Specific Conductance	1470	umhos/cm		10.0	1	06/09/2025 11:47	<a href="#">WG2533680</a>

## Wet Chemistry by Method 9056A

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Nitrate-Nitrite	161		136	5	06/05/2025 01:16	<a href="#">WG2530586</a>

## Wet Chemistry by Method WALKLEY-BLACK

Client ID	Lab Sample ID	Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
GACO0603T172-1S001	<a href="#">L1865600-01</a>	TOC By Walkley Black	39000		900	9	06/05/2025 18:10	<a href="#">WG2530671</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Client ID	Lab Sample ID	Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Hot Water Sol. Boron	2.87		1.00	5	06/07/2025 20:14	<a href="#">WG2533334</a>

# DETECTION SUMMARY

## Metals (ICP) by Method 6010D

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Aluminum	4660	<a href="#">J3 J5 J6</a>	27.2	1	06/05/2025 12:15	<a href="#">WG2531017</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Beryllium	0.546	<a href="#">J3</a>	0.272	1	06/05/2025 12:15	<a href="#">WG2531017</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Calcium	11500	<a href="#">J3 V</a>	136	1	06/05/2025 12:15	<a href="#">WG2531017</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Chromium	6.20	<a href="#">J3</a>	1.36	1	06/05/2025 12:15	<a href="#">WG2531017</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Cobalt	4.74	<a href="#">J3</a>	1.36	1	06/05/2025 12:15	<a href="#">WG2531017</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Iron	7970	<a href="#">J3 V</a>	13.6	1	06/05/2025 12:15	<a href="#">WG2531017</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Magnesium	3090	<a href="#">J3 J5 J6</a>	136	1	06/05/2025 12:15	<a href="#">WG2531017</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Manganese	378	<a href="#">J3 J5 J6</a>	1.36	1	06/05/2025 12:15	<a href="#">WG2531017</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Potassium	3300	<a href="#">J3 J6</a>	136	1	06/05/2025 12:15	<a href="#">WG2531017</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Sodium	301	<a href="#">B J3</a>	136	1	06/05/2025 12:15	<a href="#">WG2531017</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Vanadium	13.5	<a href="#">J3</a>	2.72	1	06/05/2025 12:15	<a href="#">WG2531017</a>

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Ds

6  
Sr

## Metals (ICPMS) by Method 6020

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Arsenic	4.31		0.136	5	06/09/2025 23:21	<a href="#">WG2533973</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Barium	103		13.6	5	06/09/2025 23:21	<a href="#">WG2533973</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Cadmium	0.420		0.136	5	06/09/2025 23:21	<a href="#">WG2533973</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Copper	16.2		13.6	5	06/09/2025 23:21	<a href="#">WG2533973</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Lead	15.0		13.6	5	06/09/2025 23:21	<a href="#">WG2533973</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Selenium	1.03		0.136	5	06/09/2025 23:21	<a href="#">WG2533973</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	Zinc	105		67.9	5	06/09/2025 23:21	<a href="#">WG2533973</a>

7  
Qc

8  
Gl

9  
Al

10  
Sc

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0603T172-1S001	<a href="#">L1865600-01</a>	C10-C28 Diesel Range	41.7		10.9	2	06/04/2025 21:51	<a href="#">WG2530585</a>
GACO0603T172-1S001	<a href="#">L1865600-01</a>	C28-C36 Motor Oil Range	179		10.9	2	06/04/2025 21:51	<a href="#">WG2530585</a>

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.01		1	06/07/2025 21:30	WG2533097

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

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	3630		136	1	06/05/2025 22:14	<a href="#">WG2530586</a>

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.7		1	06/04/2025 10:37	<a href="#">WG2530371</a>

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		13.6	1	06/04/2025 21:53	<a href="#">WG2530715</a>

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	3460		136	5	06/05/2025 22:14	<a href="#">WG2531195</a>

Wet Chemistry by Method 7199

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.272	1	06/04/2025 20:15	<a href="#">WG2530602</a>

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.05		1	06/08/2025 16:05	<a href="#">WG2533678</a>

Sample Narrative:

L1865600-01 WG2533678: 7.05 at 23.7C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	1470	umhos/cm		10.0	1	06/09/2025 11:47	<a href="#">WG2533680</a>

Sample Narrative:

L1865600-01 WG2533680: at 25C

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	161		136	5	06/05/2025 01:16	<a href="#">WG2530586</a>

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	39000		900	9	06/05/2025 18:10	<a href="#">WG2530671</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Hot Water Sol. Boron	2.87		1.00	5	06/07/2025 20:14	<a href="#">WG2533334</a>

## Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	4660	<a href="#">J3 J5 J6</a>	27.2	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Antimony	ND	<a href="#">J3 J6</a>	2.72	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Beryllium	0.546	<a href="#">J3</a>	0.272	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Calcium	11500	<a href="#">J3 V</a>	136	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Chromium	6.20	<a href="#">J3</a>	1.36	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Cobalt	4.74	<a href="#">J3</a>	1.36	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Iron	7970	<a href="#">J3 V</a>	13.6	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Magnesium	3090	<a href="#">J3 J5 J6</a>	136	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Manganese	378	<a href="#">J3 J5 J6</a>	1.36	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Potassium	3300	<a href="#">J3 J6</a>	136	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Sodium	301	<a href="#">B J3</a>	136	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Thallium	ND	<a href="#">J3</a>	2.72	1	06/05/2025 12:15	<a href="#">WG2531017</a>
Vanadium	13.5	<a href="#">J3</a>	2.72	1	06/05/2025 12:15	<a href="#">WG2531017</a>

## Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	4.31		0.136	5	06/09/2025 23:21	<a href="#">WG2533973</a>
Barium	103		13.6	5	06/09/2025 23:21	<a href="#">WG2533973</a>
Cadmium	0.420		0.136	5	06/09/2025 23:21	<a href="#">WG2533973</a>
Copper	16.2		13.6	5	06/09/2025 23:21	<a href="#">WG2533973</a>
Lead	15.0		13.6	5	06/09/2025 23:21	<a href="#">WG2533973</a>
Nickel	ND		13.6	5	06/09/2025 23:21	<a href="#">WG2533973</a>
Selenium	1.03		0.136	5	06/09/2025 23:21	<a href="#">WG2533973</a>
Silver	ND		0.679	5	06/09/2025 23:21	<a href="#">WG2533973</a>
Zinc	105		67.9	5	06/09/2025 23:21	<a href="#">WG2533973</a>

## Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		4.29	25	06/04/2025 12:46	<a href="#">WG2530466</a>
(S) <i>o,o,a</i> -Trifluorotoluene(FID)	96.6		77.0-120		06/04/2025 12:46	<a href="#">WG2530466</a>

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

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	<a href="#">C3</a>	0.0858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Acrylonitrile	ND	<a href="#">C3</a>	0.0215	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Benzene	ND		0.00172	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Bromobenzene	ND		0.0215	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Bromodichloromethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Bromoform	ND		0.0429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Bromomethane	ND		0.0215	1	06/04/2025 12:05	<a href="#">WG2530482</a>
n-Butylbenzene	ND		0.0215	1	06/04/2025 12:05	<a href="#">WG2530482</a>
sec-Butylbenzene	ND		0.0215	1	06/04/2025 12:05	<a href="#">WG2530482</a>
tert-Butylbenzene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Carbon tetrachloride	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Chlorobenzene	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Chlorodibromomethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>



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

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloroethane	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Chloroform	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Chloromethane	ND	C3	0.0215	1	06/04/2025 12:05	<a href="#">WG2530482</a>
2-Chlorotoluene	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
4-Chlorotoluene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,2-Dibromo-3-Chloropropane	ND		0.0429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,2-Dibromoethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Dibromomethane	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,2-Dichlorobenzene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,3-Dichlorobenzene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,4-Dichlorobenzene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Dichlorodifluoromethane	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,1-Dichloroethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,2-Dichloroethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,1-Dichloroethene	ND	C3	0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
cis-1,2-Dichloroethene	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
trans-1,2-Dichloroethene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,2-Dichloropropane	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,1-Dichloropropene	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,3-Dichloropropane	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
cis-1,3-Dichloropropene	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
trans-1,3-Dichloropropene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
2,2-Dichloropropane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Di-isopropyl ether	ND	C3	0.00172	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Ethylbenzene	ND		0.0172	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Hexachloro-1,3-butadiene	ND		0.0429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Isopropylbenzene	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
p-Isopropyltoluene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
2-Butanone (MEK)	ND	C3	0.172	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Methylene Chloride	ND		0.0429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
4-Methyl-2-pentanone (MIBK)	ND	C3	0.0429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Methyl tert-butyl ether	ND		0.00172	1	06/04/2025 12:05	<a href="#">WG2530482</a>
n-Propylbenzene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Styrene	ND		0.0215	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,1,1,2-Tetrachloroethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,1,2,2-Tetrachloroethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,1,2-Trichlorotrifluoroethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Tetrachloroethene	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Toluene	ND		0.0172	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,2,3-Trichlorobenzene	ND		0.0215	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,2,4-Trichlorobenzene	ND		0.0215	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,1,1-Trichloroethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,1,2-Trichloroethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Trichloroethene	ND		0.00172	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Trichlorofluoromethane	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,2,3-Trichloropropane	ND		0.0215	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,2,3-Trimethylbenzene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,2,4-Trimethylbenzene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
1,3,5-Trimethylbenzene	ND		0.00858	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Vinyl chloride	ND		0.00429	1	06/04/2025 12:05	<a href="#">WG2530482</a>
Xylenes, Total	ND		0.172	1	06/04/2025 12:05	<a href="#">WG2530482</a>
(S) Toluene-d8	103		75.0-131		06/04/2025 12:05	<a href="#">WG2530482</a>
(S) 4-Bromofluorobenzene	90.9		67.0-138		06/04/2025 12:05	<a href="#">WG2530482</a>
(S) 1,2-Dichloroethane-d4	98.7		70.0-130		06/04/2025 12:05	<a href="#">WG2530482</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	41.7		10.9	2	06/04/2025 21:51	<a href="#">WG2530585</a>
C28-C36 Motor Oil Range	179		10.9	2	06/04/2025 21:51	<a href="#">WG2530585</a>
(S) o-Terphenyl	68.6		18.0-148		06/04/2025 21:51	<a href="#">WG2530585</a>

## Sample Narrative:

L1865600-01 WG2530585: Dilution due to matrix impact during extraction procedure

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

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthylene	ND		0.0904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Benzidine	ND	<a href="#">J4 J6</a>	4.53	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Benzo(g,h,i)perylene	ND		0.0904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Bis(2-chloroethoxy)methane	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Bis(2-chloroethyl)ether	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
2,2-Oxybis(1-Chloropropane)	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
4-Bromophenyl-phenylether	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
2-Chloronaphthalene	ND		0.0904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
4-Chlorophenyl-phenylether	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
1,2-Dichlorobenzene	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
1,3-Dichlorobenzene	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
1,4-Dichlorobenzene	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
3,3-Dichlorobenzidine	ND	<a href="#">J6</a>	0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
2,4-Dinitrotoluene	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
2,6-Dinitrotoluene	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Hexachlorobenzene	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Hexachloro-1,3-butadiene	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Hexachlorocyclopentadiene	ND	<a href="#">C7 J6</a>	0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Hexachloroethane	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Isophorone	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Nitrobenzene	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
n-Nitrosodimethylamine	ND	<a href="#">J3 J6</a>	0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
n-Nitrosodiphenylamine	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
n-Nitrosodi-n-propylamine	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Phenanthrene	ND		0.0904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Benzylbutyl phthalate	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Bis(2-ethylhexyl)phthalate	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Di-n-butyl phthalate	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Diethyl phthalate	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Dimethyl phthalate	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Di-n-octyl phthalate	ND	<a href="#">C3 J6</a>	0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
1,2,4-Trichlorobenzene	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
4-Chloro-3-methylphenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
2-Chlorophenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
2,4-Dichlorophenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
2,4-Dimethylphenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
4,6-Dinitro-2-methylphenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
2,4-Dinitrophenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
2-Nitrophenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
4-Nitrophenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Pentachlorophenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
Phenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
2,4,6-Trichlorophenol	ND		0.904	2	06/04/2025 21:37	<a href="#">WG2530611</a>
(S) 2-Fluorophenol	45.7		12.0-120		06/04/2025 21:37	<a href="#">WG2530611</a>
(S) Phenol-d5	44.9		10.0-120		06/04/2025 21:37	<a href="#">WG2530611</a>
(S) Nitrobenzene-d5	38.7		10.0-122		06/04/2025 21:37	<a href="#">WG2530611</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

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

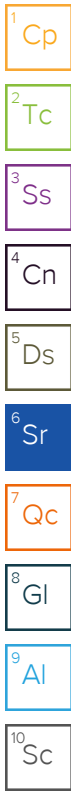
Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	41.7		15.0-120		06/04/2025 21:37	<a href="#">WG2530611</a>
(S) 2,4,6-Tribromophenol	52.5		10.0-127		06/04/2025 21:37	<a href="#">WG2530611</a>
(S) p-Terphenyl-d14	43.8		10.0-120		06/04/2025 21:37	<a href="#">WG2530611</a>

Sample Narrative:

L1865600-01 WG2530611: Dilution due to matrix impact during extract concentration procedure.

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

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Acenaphthene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Acenaphthylene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Benzo(a)anthracene	ND		0.00815	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Benzo(a)pyrene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Benzo(b)fluoranthene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Benzo(g,h,i)perylene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Benzo(k)fluoranthene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Chrysene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Dibenz(a,h)anthracene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Fluoranthene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Fluorene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Indeno(1,2,3-cd)pyrene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Naphthalene	ND		0.00407	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Phenanthrene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
Pyrene	ND		0.0448	1	06/04/2025 21:01	<a href="#">WG2530613</a>
1-Methylnaphthalene	ND		0.00407	1	06/04/2025 21:01	<a href="#">WG2530613</a>
2-Methylnaphthalene	ND		0.0163	1	06/04/2025 21:01	<a href="#">WG2530613</a>
(S) p-Terphenyl-d14	90.6		23.0-120		06/04/2025 21:01	<a href="#">WG2530613</a>
(S) Nitrobenzene-d5	95.7		14.0-149		06/04/2025 21:01	<a href="#">WG2530613</a>
(S) 2-Fluorobiphenyl	82.4		34.0-125		06/04/2025 21:01	<a href="#">WG2530613</a>



Radiochemistry by Method DOE Ga-01-R/901.1

Analyte	Result pCi/g	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/g	Lc pCi/g	Analysis Date date / time	Batch
Actinium-228 (Ra-228)	0.898		0.273	0.273	0.533	0.240	06/05/2025 14:20	<a href="#">WG2531685</a>
Bismuth-214 (Ra-226)	0.588		0.178	0.178	0.275	0.125	06/05/2025 14:20	<a href="#">WG2531685</a>
Lead-214	0.624		0.160	0.160	0.264	0.121	06/05/2025 14:20	<a href="#">WG2531685</a>
Thorium-234 (U-238)	-1.63	U	1.60	1.60	3.51	1.39	06/05/2025 14:20	<a href="#">WG2531685</a>
Radium-226 (186 KeV)	1.21	J	0.921	0.921	1.69	0.791	06/05/2025 14:20	<a href="#">WG2531685</a>

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Ds
- <sup>6</sup>Sr
- <sup>7</sup>Qc
- <sup>8</sup>Gl
- <sup>9</sup>Al
- <sup>10</sup>Sc

Method Blank (MB)

(MB) R4226158-1 06/05/25 14:18

Analyte	MB Result pCi/g	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/g	MB Lc pCi/g
Actinium-228 (Ra-228)	-0.0425	⊥	0.0908	0.279	0.110
Americium-241	-0.130	⊥	0.546	1.07	0.486
Bismuth-214 (Ra-226)	0.0431	⊥	0.0812	0.175	0.0732
Cesium-137	0.0503	⊥	0.0671	0.131	0.0574
Cobalt-60	-0.0174	⊥	0.0318	0.120	0.0487
Lead-214	0.0590	⊥	0.0901	0.175	0.0759
Radium-226 (186 KeV)	0.720	⊥	0.648	1.20	0.547
Thorium-234 (U-238)	1.12	⊥	1.06	2.14	0.828

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

L1865600-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1865600-02 06/05/25 14:20 • (DUP) R4226158-3 06/05/25 15:06

Analyte	Original Result pCi/g	Original 2 sigma CE + / -	Original MDA pCi/g	Original Lc pCi/g	DUP Result pCi/g	DUP 2 sigma CE + / -	DUP MDA pCi/g	DUP Lc pCi/g	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Actinium-228 (Ra-228)	0.898	0.273	0.533	0.240	0.937	0.302	0.474	0.195	4.20	0.0945		20	3
Bismuth-214 (Ra-226)	0.588	0.178	0.275	0.125	0.851	0.219	0.283	0.123	36.5	0.930		20	3
Lead-214	0.624	0.160	0.264	0.121	0.796	0.187	0.264	0.117	24.3	0.703		20	3
Radium-226 (186 KeV)	1.21	0.921	1.69	0.791	2.24	0.896	1.44	0.663	59.8	0.803		20	3
Thorium-234 (U-238)	-1.63	1.60	3.51	1.39	1.78	1.36	2.60	1.02	200	1.62	⊥	20	3

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4226158-2 06/05/25 14:19 • (LCSD) R4226158-4 06/05/25 15:51

Analyte	Spike Amount pCi/g	LCS Result pCi/g	LCSD Result pCi/g	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Americium-241	36.9	36.7	36.4	99.5	98.5	80.0-120			0.958	20
Cesium-137	53.8	54.8	58.0	102	108	80.0-120			5.67	20
Cobalt-60	62.9	63.3	62.4	101	99.3	80.0-120			1.35	20

Method Blank (MB)

(MB) R4225802-1 06/04/25 10:37

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1865600-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1865600-01 06/04/25 10:37 • (DUP) R4225802-3 06/04/25 10:37

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	73.7	73.4	1	0.329		10

Laboratory Control Sample (LCS)

(LCS) R4225802-2 06/04/25 10:37

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

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

Method Blank (MB)

(MB) R4225747-1 06/04/25 21:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	U		7.19	10.0

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

L1865607-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1865607-04 06/04/25 22:08 • (DUP) R4225747-5 06/04/25 22:10

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		20

L1865607-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1865607-08 06/04/25 22:14 • (DUP) R4225747-6 06/04/25 22:16

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4225747-2 06/04/25 21:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	250	254	101	90.0-110	

L1865607-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865607-03 06/04/25 21:59 • (MS) R4225747-3 06/04/25 22:01 • (MSD) R4225747-4 06/04/25 22:02

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
Ammonia Nitrogen	275	ND	255	259	92.7	93.9	1	90.0-110			1.25	20

Method Blank (MB)

(MB) R4226314-1 06/05/25 21:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Kjeldahl Nitrogen, TKN	U		15.2	20.0

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

L1863395-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1863395-17 06/05/25 21:37 • (DUP) R4226314-9 06/05/25 21:39

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	3200	2830	5	12.2		20

L1864067-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1864067-06 06/05/25 22:08 • (DUP) R4226314-14 06/05/25 22:10

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	1050	1020	5	3.11		20

Laboratory Control Sample (LCS)

(LCS) R4226314-2 06/05/25 21:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	624	610	97.8	81.7-124	

L1863069-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1863069-24 06/05/25 21:24 • (MS) R4226314-6 06/05/25 21:26 • (MSD) R4226314-7 06/05/25 21:28

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	457	2630	2920	2560	65.2	0.000	1	81.7-124	<u>E V</u>	<u>E V</u>	13.1	20

L1863395-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L1863395-15 06/05/25 21:34 • (MS) R4226314-8 06/05/25 21:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Kjeldahl Nitrogen, TKN	607	4340	4170	0.000	1	81.7-124	<u>E V</u>

L1864067-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864067-04 06/05/25 21:58 • (MS) R4226314-12 06/05/25 22:00 • (MSD) R4226314-13 06/05/25 22:02

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	400	1090	1280	1200	46.4	27.9	1	81.7-124	<u>E J6</u>	<u>E J6</u>	5.98	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R4225769-1 06/04/25 19:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	U		0.200	0.200

L1865600-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1865600-01 06/04/25 20:15 • (DUP) R4225769-3 06/04/25 20:24

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4225769-2 06/04/25 20:06

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	10.1	101	80.0-120	

L1865607-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865607-08 06/04/25 22:06 • (MS) R4225769-6 06/04/25 22:15 • (MSD) R4225769-7 06/04/25 22:24

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
Hexavalent Chromium	22.2	ND	9.15	14.5	41.2	65.2	1	75.0-125	J6	J3 J6	45.1	20

L1865607-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1865607-08 06/04/25 22:06 • (MS) R4225769-8 06/04/25 22:33

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Hexavalent Chromium	717	ND	559	78.0	50	75.0-125	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

L1865224-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1865224-01 06/08/25 16:05 • (DUP) R4227338-2 06/08/25 16:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.36	8.33	1	0.359		1

Sample Narrative:

OS: 8.36 at 24.2C  
 DUP: 8.33 at 24.6C

L1865607-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1865607-09 06/08/25 16:05 • (DUP) R4227338-3 06/08/25 16:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.89	7.89	1	0.000		1

Sample Narrative:

OS: 7.89 at 23.5C  
 DUP: 7.89 at 24C

Laboratory Control Sample (LCS)

(LCS) R4227338-1 06/08/25 16:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:

LCS: 9.99 at 23.7C



Method Blank (MB)

(MB) R4227528-1 06/09/25 11:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1865224-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1865224-02 06/09/25 11:47 • (DUP) R4227528-3 06/09/25 11:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	175	172	1	1.61		20

Sample Narrative:

OS: at 25C  
DUP: at 25C

L1865607-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1865607-08 06/09/25 11:47 • (DUP) R4227528-4 06/09/25 11:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	441	436	1	1.14		20

Sample Narrative:

OS: at 25C  
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4227528-2 06/09/25 11:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Specific Conductance	581	597	103	90.0-110	

Sample Narrative:

LCS: at 25C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R4225820-1 06/05/25 00:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Nitrate-Nitrite	0.803	⬇	0.606	20.0

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R4225820-2 06/05/25 01:03

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	40.0	38.1	95.2	80.0-120	

<sup>4</sup>Cn

<sup>5</sup>Ds

L1865607-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865607-01 06/05/25 01:42 • (MS) R4225820-3 06/05/25 01:55 • (MSD) R4225820-4 06/05/25 02:08

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
Nitrate-Nitrite	46.4	ND	47.5	47.3	92.2	91.7	1	80.0-120			0.461	15

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R4226237-1 06/05/25 18:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TOC By Walkley Black	U		25.5	100

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

L1865600-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1865600-01 06/05/25 18:10 • (DUP) R4226237-3 06/05/25 18:10

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
TOC By Walkley Black	39000	41200	10	5.49		20

L1865607-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1865607-09 06/05/25 18:20 • (DUP) R4226237-6 06/05/25 18:20

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
TOC By Walkley Black	12900	13000	5	0.459		20

Laboratory Control Sample (LCS)

(LCS) R4226237-2 06/05/25 18:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC By Walkley Black	3230	3000	92.9	75.0-144	

L1865607-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865607-03 06/05/25 18:13 • (MS) R4226237-4 06/05/25 18:13 • (MSD) R4226237-5 06/05/25 18:13

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC By Walkley Black	20000	5790	27100	27300	107	108	5	80.0-120			0.660	20

Method Blank (MB)

(MB) R4227147-1 06/07/25 19:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4227147-2 06/07/25 19:52 • (LCSD) R4227147-3 06/07/25 19:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.06	1.11	106	111	80.0-120			4.39	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R4226111-1 06/05/25 12:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aluminum	U		6.08	20.0
Antimony	U		0.691	2.00
Beryllium	U		0.0477	0.200
Calcium	U		19.0	100
Chromium	U		0.214	1.00
Cobalt	U		0.177	1.00
Iron	3.14	U	2.24	10.0
Magnesium	U		19.9	100
Manganese	U		0.173	1.00
Potassium	U		20.9	100
Sodium	59.6	U	41.2	100
Thallium	U		0.518	2.00
Vanadium	U		0.383	2.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R4226111-2 06/05/25 12:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1000	928	92.8	80.0-120	
Antimony	100	92.7	92.7	80.0-120	
Beryllium	100	97.5	97.5	80.0-120	
Calcium	1000	953	95.3	80.0-120	
Chromium	100	98.9	98.9	80.0-120	
Cobalt	100	93.2	93.2	80.0-120	
Iron	1000	960	96.0	80.0-120	
Magnesium	1000	950	95.0	80.0-120	
Manganese	100	98.6	98.6	80.0-120	
Potassium	1000	948	94.8	80.0-120	
Sodium	1000	987	98.7	80.0-120	
Thallium	100	96.6	96.6	80.0-120	
Vanadium	100	93.8	93.8	80.0-120	

L1865600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865600-01 06/05/25 12:15 • (MS) R4226111-5 06/05/25 12:20 • (MSD) R4226111-6 06/05/25 12:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1360	4660	7880	5120	237	33.9	1	75.0-125	<u>J5</u>	<u>J3 J6</u>	42.5	20
Antimony	136	ND	110	86.9	81.3	64.0	1	75.0-125		<u>J3 J6</u>	23.8	20
Beryllium	136	0.546	142	113	104	82.5	1	75.0-125		<u>J3</u>	23.0	20
Calcium	1360	11500	15400	12200	289	51.2	1	75.0-125	<u>V</u>	<u>J3 V</u>	23.4	20
Chromium	136	6.20	151	117	107	81.5	1	75.0-125		<u>J3</u>	25.7	20
Cobalt	136	4.74	146	113	104	79.9	1	75.0-125		<u>J3</u>	25.1	20
Iron	1360	7970	11000	7090	222	0.000	1	75.0-125	<u>V</u>	<u>J3 V</u>	43.1	20
Magnesium	1360	3090	5080	3940	147	62.4	1	75.0-125	<u>J5</u>	<u>J3 J6</u>	25.3	20
Manganese	136	378	606	452	168	54.2	1	75.0-125	<u>J5</u>	<u>J3 J6</u>	29.2	20
Potassium	1360	3300	4920	3860	119	41.0	1	75.0-125		<u>J3 J6</u>	24.3	20
Sodium	1360	301	1760	1420	107	82.4	1	75.0-125		<u>J3</u>	21.3	20
Thallium	136	ND	141	110	104	80.8	1	75.0-125		<u>J3</u>	25.1	20
Vanadium	136	13.5	151	117	101	76.6	1	75.0-125		<u>J3</u>	24.9	20

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

Method Blank (MB)

(MB) R4227869-1 06/09/25 22:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	0.100
Barium	U		10.0	10.0
Cadmium	U		0.100	0.100
Copper	U		10.0	10.0
Lead	U		10.0	10.0
Nickel	U		10.0	10.0
Selenium	U		0.100	0.100
Silver	U		0.500	0.500
Zinc	U		50.0	50.0

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R4227869-2 06/09/25 23:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	91.3	91.3	80.0-120	
Barium	100	86.3	86.3	80.0-120	
Cadmium	100	97.1	97.1	80.0-120	
Copper	100	91.6	91.6	80.0-120	
Lead	100	86.2	86.2	80.0-120	
Nickel	100	96.6	96.6	80.0-120	
Selenium	100	93.3	93.3	80.0-120	
Silver	20.0	18.2	91.2	80.0-120	
Zinc	100	91.7	91.7	80.0-120	

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

L1865607-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865607-09 06/09/25 23:05 • (MS) R4227869-5 06/09/25 23:15 • (MSD) R4227869-6 06/09/25 23:18

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	117	7.25	117	118	93.9	94.6	5	75.0-125			0.701	20
Barium	117	75.3	226	188	129	96.5	5	75.0-125	J5		18.5	20
Cadmium	117	0.202	119	118	102	101	5	75.0-125			0.860	20
Copper	117	ND	118	119	101	102	5	75.0-125			0.940	20
Lead	117	ND	112	111	96.3	94.7	5	75.0-125			1.64	20
Nickel	117	ND	127	127	109	109	5	75.0-125			0.000826	20
Selenium	117	0.555	116	115	99.2	98.0	5	75.0-125			1.26	20
Silver	23.4	ND	22.5	22.2	96.5	95.1	5	75.0-125			1.49	20

L1865607-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865607-09 06/09/25 23:05 • (MS) R4227869-5 06/09/25 23:15 • (MSD) R4227869-6 06/09/25 23:18

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Zinc	117	ND	152	155	130	133	5	75.0-125	<u>J5</u>	<u>J5</u>	2.37	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R4225512-2 06/04/25 11:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		2.00	2.50
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4225512-1 06/04/25 10:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.56	111	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			110	77.0-120	

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

Method Blank (MB)

(MB) R4225538-3 06/04/25 10:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.00100	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	0.00535	U	0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.0100	0.0100
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R4225538-3 06/04/25 10:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.0100	0.0100
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00500	0.00500
1,3,5-Trimethylbenzene	U		0.00500	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.100	0.100
(S) Toluene-d8	102			75.0-131
(S) 4-Bromofluorobenzene	92.4			67.0-138
(S) 1,2-Dichloroethane-d4	98.8			70.0-130

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4225538-1 06/04/25 08:50 • (LCSD) R4225538-2 06/04/25 09:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.200	0.194	32.0	31.0	10.0-160			3.05	31
Acrylonitrile	0.625	0.468	0.492	74.9	78.7	45.0-153			5.00	22
Benzene	0.125	0.113	0.125	90.4	100	70.0-123			10.1	20
Bromobenzene	0.125	0.134	0.144	107	115	73.0-121			7.19	20
Bromodichloromethane	0.125	0.115	0.123	92.0	98.4	73.0-121			6.72	20
Bromoform	0.125	0.122	0.130	97.6	104	64.0-132			6.35	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4225538-1 06/04/25 08:50 • (LCSD) R4225538-2 06/04/25 09:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	0.125	0.140	0.160	112	128	56.0-147			13.3	20
n-Butylbenzene	0.125	0.125	0.134	100	107	68.0-135			6.95	20
sec-Butylbenzene	0.125	0.124	0.132	99.2	106	74.0-130			6.25	20
tert-Butylbenzene	0.125	0.126	0.133	101	106	75.0-127			5.41	20
Carbon tetrachloride	0.125	0.113	0.130	90.4	104	66.0-128			14.0	20
Chlorobenzene	0.125	0.121	0.132	96.8	106	76.0-128			8.70	20
Chlorodibromomethane	0.125	0.115	0.128	92.0	102	74.0-127			10.7	20
Chloroethane	0.125	0.126	0.141	101	113	61.0-134			11.2	20
Chloroform	0.125	0.115	0.122	92.0	97.6	72.0-123			5.91	20
Chloromethane	0.125	0.0799	0.0869	63.9	69.5	51.0-138			8.39	20
2-Chlorotoluene	0.125	0.125	0.138	100	110	75.0-124			9.89	20
4-Chlorotoluene	0.125	0.128	0.137	102	110	75.0-124			6.79	20
1,2-Dibromo-3-Chloropropane	0.125	0.126	0.126	101	101	59.0-130			0.000	20
1,2-Dibromoethane	0.125	0.122	0.129	97.6	103	74.0-128			5.58	20
Dibromomethane	0.125	0.110	0.122	88.0	97.6	75.0-122			10.3	20
1,2-Dichlorobenzene	0.125	0.130	0.133	104	106	76.0-124			2.28	20
1,3-Dichlorobenzene	0.125	0.133	0.143	106	114	76.0-125			7.25	20
1,4-Dichlorobenzene	0.125	0.133	0.137	106	110	77.0-121			2.96	20
Dichlorodifluoromethane	0.125	0.107	0.119	85.6	95.2	43.0-156			10.6	20
1,1-Dichloroethane	0.125	0.103	0.112	82.4	89.6	70.0-127			8.37	20
1,2-Dichloroethane	0.125	0.101	0.107	80.8	85.6	65.0-131			5.77	20
1,1-Dichloroethene	0.125	0.0992	0.108	79.4	86.4	65.0-131			8.49	20
cis-1,2-Dichloroethene	0.125	0.110	0.120	88.0	96.0	73.0-125			8.70	20
trans-1,2-Dichloroethene	0.125	0.102	0.113	81.6	90.4	71.0-125			10.2	20
1,2-Dichloropropane	0.125	0.101	0.109	80.8	87.2	74.0-125			7.62	20
1,1-Dichloropropene	0.125	0.108	0.122	86.4	97.6	73.0-125			12.2	20
1,3-Dichloropropane	0.125	0.131	0.141	105	113	80.0-125			7.35	20
cis-1,3-Dichloropropene	0.125	0.117	0.125	93.6	100	76.0-127			6.61	20
trans-1,3-Dichloropropene	0.125	0.128	0.138	102	110	73.0-127			7.52	20
2,2-Dichloropropane	0.125	0.113	0.125	90.4	100	59.0-135			10.1	20
Di-isopropyl ether	0.125	0.0792	0.0850	63.4	68.0	60.0-136			7.06	20
Ethylbenzene	0.125	0.117	0.135	93.6	108	74.0-126			14.3	20
Hexachloro-1,3-butadiene	0.125	0.122	0.142	97.6	114	57.0-150			15.2	20
Isopropylbenzene	0.125	0.119	0.131	95.2	105	72.0-127			9.60	20
p-Isopropyltoluene	0.125	0.125	0.133	100	106	72.0-133			6.20	20
2-Butanone (MEK)	0.625	0.409	0.427	65.4	68.3	30.0-160			4.31	24
Methylene Chloride	0.125	0.107	0.118	85.6	94.4	68.0-123			9.78	20
4-Methyl-2-pentanone (MIBK)	0.625	0.452	0.485	72.3	77.6	56.0-143			7.04	20
Methyl tert-butyl ether	0.125	0.124	0.135	99.2	108	66.0-132			8.49	20
n-Propylbenzene	0.125	0.136	0.145	109	116	74.0-126			6.41	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4225538-1 06/04/25 08:50 • (LCSD) R4225538-2 06/04/25 09:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Styrene	0.125	0.114	0.124	91.2	99.2	72.0-127			8.40	20
1,1,1,2-Tetrachloroethane	0.125	0.116	0.123	92.8	98.4	74.0-129			5.86	20
1,1,2,2-Tetrachloroethane	0.125	0.120	0.131	96.0	105	68.0-128			8.76	20
1,1,2-Trichlorotrifluoroethane	0.125	0.107	0.117	85.6	93.6	61.0-139			8.93	20
Tetrachloroethene	0.125	0.124	0.143	99.2	114	70.0-136			14.2	20
Toluene	0.125	0.129	0.139	103	111	75.0-121			7.46	20
1,2,3-Trichlorobenzene	0.125	0.142	0.156	114	125	59.0-139			9.40	20
1,2,4-Trichlorobenzene	0.125	0.141	0.152	113	122	62.0-137			7.51	20
1,1,1-Trichloroethane	0.125	0.113	0.124	90.4	99.2	69.0-126			9.28	20
1,1,2-Trichloroethane	0.125	0.119	0.131	95.2	105	78.0-123			9.60	20
Trichloroethene	0.125	0.110	0.118	88.0	94.4	76.0-126			7.02	20
Trichlorofluoromethane	0.125	0.124	0.140	99.2	112	61.0-142			12.1	20
1,2,3-Trichloropropane	0.125	0.137	0.150	110	120	67.0-129			9.06	20
1,2,3-Trimethylbenzene	0.125	0.134	0.140	107	112	74.0-124			4.38	20
1,2,4-Trimethylbenzene	0.125	0.129	0.139	103	111	70.0-126			7.46	20
1,3,5-Trimethylbenzene	0.125	0.127	0.134	102	107	73.0-127			5.36	20
Vinyl chloride	0.125	0.107	0.118	85.6	94.4	63.0-134			9.78	20
Xylenes, Total	0.375	0.333	0.363	88.8	96.8	72.0-127			8.62	20
(S) Toluene-d8				104	105	75.0-131				
(S) 4-Bromofluorobenzene				91.0	90.1	67.0-138				
(S) 1,2-Dichloroethane-d4				102	102	70.0-130				



L1860786-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1860786-06 06/04/25 17:43 • (MS) R4225538-4 06/04/25 18:43 • (MSD) R4225538-5 06/04/25 19:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	12.5	ND	3.55	3.39	28.4	27.1	20	10.0-160			4.61	40
Acrylonitrile	12.5	ND	7.54	7.13	60.3	57.0	20	10.0-160			5.59	40
Benzene	2.50	ND	1.76	1.76	70.4	70.4	20	10.0-149			0.000	37
Bromobenzene	2.50	ND	2.03	2.01	81.2	80.4	20	10.0-156			0.990	38
Bromodichloromethane	2.50	ND	1.75	1.71	70.0	68.4	20	10.0-143			2.31	37
Bromoform	2.50	ND	1.76	1.77	70.4	70.8	20	10.0-146			0.567	36
Bromomethane	2.50	ND	1.56	1.62	62.4	64.8	20	10.0-149			3.77	38
n-Butylbenzene	2.50	0.278	2.35	2.36	82.9	83.3	20	10.0-160			0.425	40
sec-Butylbenzene	2.50	0.363	2.42	2.33	82.3	78.7	20	10.0-159			3.79	39
tert-Butylbenzene	2.50	ND	2.04	2.00	81.6	80.0	20	10.0-156			1.98	39
Carbon tetrachloride	2.50	ND	1.88	1.84	75.2	73.6	20	10.0-145			2.15	37
Chlorobenzene	2.50	ND	1.77	1.79	70.8	71.6	20	10.0-152			1.12	39

L1860786-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1860786-06 06/04/25 17:43 • (MS) R4225538-4 06/04/25 18:43 • (MSD) R4225538-5 06/04/25 19:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chlorodibromomethane	2.50	ND	1.74	1.69	69.6	67.6	20	10.0-146			2.92	37
Chloroethane	2.50	ND	1.80	1.76	72.0	70.4	20	10.0-146			2.25	40
Chloroform	2.50	0.0780	1.84	1.70	70.5	64.9	20	10.0-146			7.91	37
Chloromethane	2.50	ND	1.17	1.16	46.8	46.4	20	10.0-159			0.858	37
2-Chlorotoluene	2.50	ND	1.90	1.82	76.0	72.8	20	10.0-159			4.30	38
4-Chlorotoluene	2.50	ND	1.95	1.93	78.0	77.2	20	10.0-155			1.03	39
1,2-Dibromo-3-Chloropropane	2.50	ND	2.03	1.94	81.2	77.6	20	10.0-151			4.53	39
1,2-Dibromoethane	2.50	ND	1.79	1.73	71.6	69.2	20	10.0-148			3.41	34
Dibromomethane	2.50	ND	1.68	1.74	67.2	69.6	20	10.0-147			3.51	35
1,2-Dichlorobenzene	2.50	ND	1.89	1.89	75.6	75.6	20	10.0-155			0.000	37
1,3-Dichlorobenzene	2.50	ND	2.02	1.97	80.8	78.8	20	10.0-153			2.51	38
1,4-Dichlorobenzene	2.50	ND	1.99	1.99	79.6	79.6	20	10.0-151			0.000	38
Dichlorodifluoromethane	2.50	ND	1.66	1.62	66.4	64.8	20	10.0-160			2.44	35
1,1-Dichloroethane	2.50	ND	1.58	1.55	63.2	62.0	20	10.0-147			1.92	37
1,2-Dichloroethane	2.50	ND	1.55	1.52	62.0	60.8	20	10.0-148			1.95	35
1,1-Dichloroethene	2.50	ND	1.58	1.56	63.2	62.4	20	10.0-155			1.27	37
cis-1,2-Dichloroethene	2.50	ND	1.61	1.67	64.4	66.8	20	10.0-149			3.66	37
trans-1,2-Dichloroethene	2.50	ND	1.64	1.59	65.6	63.6	20	10.0-150			3.10	37
1,2-Dichloropropane	2.50	ND	1.52	1.53	60.8	61.2	20	10.0-148			0.656	37
1,1-Dichloropropene	2.50	ND	1.73	1.73	69.2	69.2	20	10.0-153			0.000	35
1,3-Dichloropropane	2.50	ND	1.96	1.93	78.4	77.2	20	10.0-154			1.54	35
cis-1,3-Dichloropropene	2.50	ND	1.72	1.78	68.8	71.2	20	10.0-151			3.43	37
trans-1,3-Dichloropropene	2.50	ND	1.96	1.93	78.4	77.2	20	10.0-148			1.54	37
2,2-Dichloropropane	2.50	ND	1.87	1.85	74.8	74.0	20	10.0-138			1.08	36
Di-isopropyl ether	2.50	ND	1.20	1.17	48.0	46.8	20	10.0-147			2.53	36
Ethylbenzene	2.50	ND	1.82	1.77	72.8	70.8	20	10.0-160			2.79	38
Hexachloro-1,3-butadiene	2.50	ND	1.92	2.02	76.8	80.8	20	10.0-160			5.08	40
Isopropylbenzene	2.50	ND	1.86	1.87	73.8	74.2	20	10.0-155			0.536	38
p-Isopropyltoluene	2.50	ND	1.86	1.85	74.4	74.0	20	10.0-160			0.539	40
2-Butanone (MEK)	12.5	ND	6.98	7.38	55.8	59.0	20	10.0-160			5.57	40
Methylene Chloride	2.50	ND	1.66	1.59	66.4	63.6	20	10.0-141			4.31	37
4-Methyl-2-pentanone (MIBK)	12.5	ND	7.18	7.20	57.4	57.6	20	10.0-160			0.278	35
Methyl tert-butyl ether	2.50	ND	1.94	1.93	77.6	77.2	20	11.0-147			0.517	35
n-Propylbenzene	2.50	ND	2.13	2.12	85.2	84.8	20	10.0-158			0.471	38
Styrene	2.50	ND	1.66	1.72	66.4	68.8	20	10.0-160			3.55	40
1,1,1,2-Tetrachloroethane	2.50	ND	1.72	1.61	68.8	64.4	20	10.0-149			6.61	39
1,1,2,2-Tetrachloroethane	2.50	ND	2.05	1.79	82.0	71.6	20	10.0-160			13.5	35
1,1,2-Trichlorotrifluoroethane	2.50	ND	1.69	1.76	67.6	70.4	20	10.0-160			4.06	36
Tetrachloroethene	2.50	ND	1.96	2.09	78.4	83.6	20	10.0-156			6.42	39
Toluene	2.50	ND	1.94	1.94	77.6	77.6	20	10.0-156			0.000	38

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

L1860786-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1860786-06 06/04/25 17:43 • (MS) R4225538-4 06/04/25 18:43 • (MSD) R4225538-5 06/04/25 19:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,3-Trichlorobenzene	2.50	ND	2.21	2.29	88.4	91.6	20	10.0-160			3.56	40
1,2,4-Trichlorobenzene	2.50	ND	2.22	2.19	88.8	87.6	20	10.0-160			1.36	40
1,1,1-Trichloroethane	2.50	ND	1.82	1.84	72.8	73.6	20	10.0-144			1.09	35
1,1,2-Trichloroethane	2.50	ND	1.81	1.79	72.4	71.6	20	10.0-160			1.11	35
Trichloroethene	2.50	ND	1.61	1.63	64.4	65.2	20	10.0-156			1.23	38
Trichlorofluoromethane	2.50	ND	1.99	2.03	79.6	81.2	20	10.0-160			1.99	40
1,2,3-Trichloropropane	2.50	ND	2.07	2.22	82.8	88.8	20	10.0-156			6.99	35
1,2,3-Trimethylbenzene	2.50	ND	2.03	1.98	81.2	79.2	20	10.0-160			2.49	36
1,2,4-Trimethylbenzene	2.50	ND	2.07	1.97	82.8	78.8	20	10.0-160			4.95	36
1,3,5-Trimethylbenzene	2.50	ND	1.87	1.87	74.8	74.8	20	10.0-160			0.000	38
Vinyl chloride	2.50	ND	1.51	1.56	60.4	62.4	20	10.0-160			3.26	37
Xylenes, Total	7.50	ND	5.08	5.06	67.7	67.5	20	10.0-160			0.394	38
(S) Toluene-d8					101	102		75.0-131				
(S) 4-Bromofluorobenzene					92.7	91.1		67.0-138				
(S) 1,2-Dichloroethane-d4					106	104		70.0-130				

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R4225716-1 06/04/25 19:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	61.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4225716-2 06/04/25 19:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.9	73.8	50.0-150	
(S) o-Terphenyl			76.1	18.0-148	

L1865600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865600-01 06/04/25 21:51 • (MS) R4225716-3 06/04/25 22:04 • (MSD) R4225716-4 06/04/25 22:16

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	65.4	41.7	92.3	84.2	77.4	64.0	2	50.0-150			9.23	20
(S) o-Terphenyl					59.8	52.8		18.0-148				

Sample Narrative:

OS: Dilution due to matrix impact during extraction procedure

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R4225708-2 06/04/25 17:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthylene	U		0.00567	0.0333
Benzidine	U		0.999	1.67
Benzo(g,h,i)perylene	U		0.00644	0.0333
Bis(2-chlorethoxy)methane	U		0.0361	0.333
Bis(2-chloroethyl)ether	U		0.0629	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0326	0.333
4-Bromophenyl-phenylether	U		0.0475	0.333
2-Chloronaphthalene	U		0.00496	0.0333
4-Chlorophenyl-phenylether	U		0.0475	0.333
1,2-Dichlorobenzene	U		0.0286	0.333
1,3-Dichlorobenzene	U		0.0290	0.333
1,4-Dichlorobenzene	U		0.0286	0.333
3,3-Dichlorobenzidine	U		0.127	0.333
2,4-Dinitrotoluene	U		0.0660	0.333
2,6-Dinitrotoluene	U		0.0628	0.333
Hexachlorobenzene	U		0.0544	0.333
Hexachloro-1,3-butadiene	U		0.0528	0.333
Hexachlorocyclopentadiene	U		0.102	0.333
Hexachloroethane	U		0.0410	0.333
Isophorone	U		0.0419	0.333
Nitrobenzene	U		0.0450	0.333
n-Nitrosodimethylamine	U		0.0782	0.333
n-Nitrosodiphenylamine	U		0.0427	0.333
n-Nitrosodi-n-propylamine	U		0.0528	0.333
Phenanthrene	U		0.00366	0.0333
Benzylbutyl phthalate	U		0.0645	0.333
Bis(2-ethylhexyl)phthalate	U		0.0657	0.333
Di-n-butyl phthalate	U		0.0448	0.333
Diethyl phthalate	U		0.0516	0.333
Dimethyl phthalate	U		0.0447	0.333
Di-n-octyl phthalate	U		0.147	0.333
1,2,4-Trichlorobenzene	U		0.0395	0.333
4-Chloro-3-methylphenol	U		0.0520	0.333
2-Chlorophenol	U		0.0346	0.333
2,4-Dichlorophenol	U		0.0439	0.333
2,4-Dimethylphenol	U		0.0691	0.333
4,6-Dinitro-2-methylphenol	U		0.102	0.333
2,4-Dinitrophenol	U		0.127	0.333
2-Nitrophenol	U		0.0494	0.333
4-Nitrophenol	U		0.106	0.333

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R4225708-2 06/04/25 17:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Pentachlorophenol	U		0.0623	0.333
Phenol	U		0.0567	0.333
2,4,6-Trichlorophenol	U		0.0796	0.333
(S) 2-Fluorophenol	52.7			12.0-120
(S) Phenol-d5	49.2			10.0-120
(S) Nitrobenzene-d5	42.0			10.0-122
(S) 2-Fluorobiphenyl	47.1			15.0-120
(S) 2,4,6-Tribromophenol	53.3			10.0-127
(S) p-Terphenyl-d14	55.3			10.0-120

Laboratory Control Sample (LCS)

(LCS) R4225708-1 06/04/25 17:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Acenaphthylene	0.666	0.328	49.2	40.0-120	
Benzidine	1.33	U	0.000	10.0-120	J4
Benzo(g,h,i)perylene	0.666	0.319	47.9	43.0-120	
Bis(2-chloroethoxy)methane	0.666	0.227	34.1	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.271	40.7	16.0-120	
2,2-Oxybis(1-Chloropropane)	0.666	0.222	33.3	23.0-120	
4-Bromophenyl-phenylether	0.666	0.359	53.9	40.0-120	
2-Chloronaphthalene	0.666	0.285	42.8	35.0-120	
4-Chlorophenyl-phenylether	0.666	0.350	52.6	40.0-120	
1,2-Dichlorobenzene	0.666	0.257	38.6	32.0-120	
1,3-Dichlorobenzene	0.666	0.245	36.8	30.0-120	
1,4-Dichlorobenzene	0.666	0.264	39.6	31.0-120	
3,3-Dichlorobenzidine	1.33	0.692	52.0	28.0-120	
2,4-Dinitrotoluene	0.666	0.357	53.6	45.0-120	
2,6-Dinitrotoluene	0.666	0.340	51.1	42.0-120	
Hexachlorobenzene	0.666	0.363	54.5	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.231	34.7	15.0-120	
Hexachlorocyclopentadiene	0.666	0.251	37.7	15.0-120	
Hexachloroethane	0.666	0.238	35.7	17.0-120	
Isophorone	0.666	0.225	33.8	23.0-120	
Nitrobenzene	0.666	0.214	32.1	17.0-120	
n-Nitrosodimethylamine	0.666	0.233	35.0	10.0-125	
n-Nitrosodiphenylamine	0.666	0.339	50.9	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.255	38.3	26.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS)

(LCS) R4225708-1 06/04/25 17:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Phenanthrene	0.666	0.324	48.6	42.0-120	
Benzylbutyl phthalate	0.666	0.308	46.2	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.310	46.5	41.0-120	
Di-n-butyl phthalate	0.666	0.329	49.4	43.0-120	
Diethyl phthalate	0.666	0.323	48.5	43.0-120	
Dimethyl phthalate	0.666	0.341	51.2	43.0-120	
Di-n-octyl phthalate	0.666	0.300	45.0	40.0-120	
1,2,4-Trichlorobenzene	0.666	0.250	37.5	17.0-120	
4-Chloro-3-methylphenol	0.666	0.277	41.6	28.0-120	
2-Chlorophenol	0.666	0.264	39.6	28.0-120	
2,4-Dichlorophenol	0.666	0.281	42.2	25.0-120	
2,4-Dimethylphenol	0.666	0.249	37.4	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.364	54.7	16.0-120	
2,4-Dinitrophenol	0.666	0.295	44.3	10.0-120	
2-Nitrophenol	0.666	0.274	41.1	20.0-120	
4-Nitrophenol	0.666	0.361	54.2	27.0-120	
Pentachlorophenol	0.666	0.255	38.3	29.0-120	
Phenol	0.666	0.271	40.7	28.0-120	
2,4,6-Trichlorophenol	0.666	0.307	46.1	37.0-120	
(S) 2-Fluorophenol			46.5	12.0-120	
(S) Phenol-d5			46.7	10.0-120	
(S) Nitrobenzene-d5			34.8	10.0-122	
(S) 2-Fluorobiphenyl			46.2	15.0-120	
(S) 2,4,6-Tribromophenol			62.2	10.0-127	
(S) p-Terphenyl-d14			51.7	10.0-120	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Ds

6  
Sr

7  
Qc

8  
Gl

9  
Al

10  
Sc

L1865600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865600-01 06/04/25 21:37 • (MS) R4225708-3 06/04/25 22:02 • (MSD) R4225708-4 06/04/25 22:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acenaphthylene	0.899	ND	0.339	0.299	37.8	33.3	2	25.0-120			12.8	32
Benzidine	1.32	ND	ND	ND	0.000	0.000	2	10.0-120	<u>J6</u>	<u>J6</u>	0.000	40
Benzo(g,h,i)perylene	0.899	ND	0.239	0.231	26.6	25.8	2	10.0-120			3.47	33
Bis(2-chlorethoxy)methane	0.899	ND	ND	ND	31.3	27.0	2	10.0-120			15.1	34
Bis(2-chloroethyl)ether	0.899	ND	ND	ND	32.9	28.6	2	10.0-120			14.3	40
2,2-Oxybis(1-Chloropropane)	0.899	ND	ND	ND	34.9	29.8	2	10.0-120			15.9	40
4-Bromophenyl-phenylether	0.899	ND	ND	ND	38.8	34.8	2	27.0-120			11.1	30
2-Chloronaphthalene	0.899	ND	0.314	0.277	34.9	30.9	2	20.0-120			12.4	32

L1865600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865600-01 06/04/25 21:37 • (MS) R4225708-3 06/04/25 22:02 • (MSD) R4225708-4 06/04/25 22:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.899	ND	ND	ND	37.8	34.5	2	24.0-120			9.21	29
1,2-Dichlorobenzene	0.899	ND	ND	ND	33.8	28.6	2	10.0-120			16.9	38
1,3-Dichlorobenzene	0.899	ND	ND	ND	32.9	27.1	2	10.0-120			19.6	40
1,4-Dichlorobenzene	0.899	ND	ND	ND	35.2	28.9	2	10.0-120			19.8	39
3,3-Dichlorobenzidine	1.79	ND	ND	ND	0.000	0.000	2	10.0-120	J6	J6	0.000	34
2,4-Dinitrotoluene	0.899	ND	ND	ND	36.7	33.9	2	30.0-120			8.14	31
2,6-Dinitrotoluene	0.899	ND	ND	ND	37.9	33.8	2	25.0-120			11.8	31
Hexachlorobenzene	0.899	ND	ND	ND	36.9	33.3	2	27.0-120			10.3	28
Hexachloro-1,3-butadiene	0.899	ND	ND	ND	31.7	26.7	2	10.0-120			17.6	38
Hexachlorocyclopentadiene	0.899	ND	ND	ND	0.000	0.000	2	10.0-120	J6	J6	0.000	40
Hexachloroethane	0.899	ND	ND	ND	17.2	14.0	2	10.0-120			20.9	40
Isophorone	0.899	ND	ND	ND	32.9	27.7	2	13.0-120			17.5	34
Nitrobenzene	0.899	ND	ND	ND	31.7	27.1	2	10.0-120			15.9	36
n-Nitrosodimethylamine	0.899	ND	ND	ND	26.6	0.000	2	10.0-127		J3 J6	200	40
n-Nitrosodiphenylamine	0.899	ND	ND	ND	37.9	34.5	2	17.0-120			9.60	29
n-Nitrosodi-n-propylamine	0.899	ND	ND	ND	35.6	29.1	2	10.0-120			20.6	37
Phenanthrene	0.899	ND	0.319	0.288	35.5	32.1	2	17.0-120			10.3	31
Benzylbutyl phthalate	0.899	ND	ND	ND	34.7	31.8	2	23.0-120			9.09	30
Bis(2-ethylhexyl)phthalate	0.899	ND	ND	ND	33.1	32.1	2	17.0-126			3.25	30
Di-n-butyl phthalate	0.899	ND	ND	ND	35.0	32.9	2	30.0-120			6.68	29
Diethyl phthalate	0.899	ND	ND	ND	36.9	33.0	2	26.0-120			11.3	28
Dimethyl phthalate	0.899	ND	ND	ND	40.3	35.2	2	25.0-120			14.0	29
Di-n-octyl phthalate	0.899	ND	ND	ND	0.000	0.000	2	21.0-123	J6	J6	0.000	29
1,2,4-Trichlorobenzene	0.899	ND	ND	ND	35.3	29.5	2	12.0-120			18.2	37
4-Chloro-3-methylphenol	0.899	ND	ND	ND	37.6	32.6	2	15.0-120			14.7	30
2-Chlorophenol	0.899	ND	ND	ND	36.7	31.7	2	15.0-120			15.0	37
2,4-Dichlorophenol	0.899	ND	ND	ND	39.3	33.6	2	20.0-120			15.8	31
2,4-Dimethylphenol	0.899	ND	ND	ND	34.0	28.9	2	10.0-120			16.3	33
4,6-Dinitro-2-methylphenol	0.899	ND	ND	ND	47.7	44.1	2	10.0-120			8.24	39
2,4-Dinitrophenol	0.899	ND	ND	ND	43.8	40.8	2	10.0-121			7.51	40
2-Nitrophenol	0.899	ND	ND	ND	38.8	33.3	2	12.0-120			15.5	39
4-Nitrophenol	0.899	ND	ND	ND	46.7	40.8	2	10.0-137			13.8	32
Pentachlorophenol	0.899	ND	ND	ND	36.6	31.5	2	10.0-160			15.1	31
Phenol	0.899	ND	ND	ND	38.2	32.4	2	12.0-120			16.7	38
2,4,6-Trichlorophenol	0.899	ND	ND	ND	40.3	35.5	2	19.0-120			13.2	32
(S) 2-Fluorophenol					44.3	37.0		12.0-120				
(S) Phenol-d5					42.4	36.1		10.0-120				
(S) Nitrobenzene-d5					34.7	28.7		10.0-122				
(S) 2-Fluorobiphenyl					37.5	32.1		15.0-120				

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

L1865600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865600-01 06/04/25 21:37 • (MS) R4225708-3 06/04/25 22:02 • (MSD) R4225708-4 06/04/25 22:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) 2,4,6-Tribromophenol					49.6	42.9		10.0-127				
(S) p-Terphenyl-d14					35.6	33.6		10.0-120				

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure.

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R4225674-2 06/04/25 17:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.0330	0.0330
Acenaphthene	U		0.0330	0.0330
Acenaphthylene	U		0.0330	0.0330
Benzo(a)anthracene	U		0.00600	0.00600
Benzo(a)pyrene	U		0.0330	0.0330
Benzo(b)fluoranthene	U		0.0330	0.0330
Benzo(g,h,i)perylene	U		0.0330	0.0330
Benzo(k)fluoranthene	U		0.0330	0.0330
Chrysene	U		0.0330	0.0330
Dibenz(a,h)anthracene	U		0.0330	0.0330
Fluoranthene	U		0.0330	0.0330
Fluorene	U		0.0330	0.0330
Indeno(1,2,3-cd)pyrene	U		0.0330	0.0330
Naphthalene	U		0.00300	0.00300
Phenanthrene	U		0.0330	0.0330
Pyrene	U		0.0330	0.0330
1-Methylnaphthalene	U		0.00300	0.00300
2-Methylnaphthalene	U		0.0120	0.0120
<i>(S) p-Terphenyl-d14</i>	86.7			23.0-120
<i>(S) Nitrobenzene-d5</i>	75.3			14.0-149
<i>(S) 2-Fluorobiphenyl</i>	97.1			34.0-125

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Ds

<sup>6</sup>Sr

<sup>7</sup>Qc

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R4225674-1 06/04/25 17:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0685	85.6	50.0-126	
Acenaphthene	0.0800	0.0652	81.5	50.0-120	
Acenaphthylene	0.0800	0.0708	88.5	50.0-120	
Benzo(a)anthracene	0.0800	0.0654	81.8	45.0-120	
Benzo(a)pyrene	0.0800	0.0524	65.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0629	78.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0588	73.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0619	77.4	49.0-125	
Chrysene	0.0800	0.0678	84.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0609	76.1	47.0-125	
Fluoranthene	0.0800	0.0719	89.9	49.0-129	
Fluorene	0.0800	0.0685	85.6	49.0-120	

Laboratory Control Sample (LCS)

(LCS) R4225674-1 06/04/25 17:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Indeno(1,2,3-cd)pyrene	0.0800	0.0599	74.9	46.0-125	
Naphthalene	0.0800	0.0644	80.5	50.0-120	
Phenanthrene	0.0800	0.0681	85.1	47.0-120	
Pyrene	0.0800	0.0644	80.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0680	85.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0650	81.3	50.0-120	
<i>(S) p-Terphenyl-d14</i>			91.0	23.0-120	
<i>(S) Nitrobenzene-d5</i>			78.4	14.0-149	
<i>(S) 2-Fluorobiphenyl</i>			96.4	34.0-125	

L1865600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865600-01 06/04/25 21:01 • (MS) R4225678-1 06/04/25 21:19 • (MSD) R4225678-2 06/04/25 21:37

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.107	ND	0.0739	0.0798	69.0	75.0	1	10.0-145			7.77	30
Acenaphthene	0.107	ND	0.0683	0.0732	63.8	68.8	1	14.0-127			6.91	27
Acenaphthylene	0.107	ND	0.0729	0.0778	68.1	73.1	1	21.0-124			6.49	25
Benzo(a)anthracene	0.107	ND	0.0793	0.0881	74.1	82.8	1	10.0-139			10.5	30
Benzo(a)pyrene	0.107	ND	0.0763	0.0850	71.3	79.8	1	10.0-141			10.8	31
Benzo(b)fluoranthene	0.107	ND	0.0749	0.0816	70.1	76.7	1	10.0-140			8.50	36
Benzo(g,h,i)perylene	0.107	ND	0.0725	0.0809	67.8	76.0	1	10.0-140			11.0	33
Benzo(k)fluoranthene	0.107	ND	0.0648	0.0736	60.5	69.1	1	10.0-137			12.8	31
Chrysene	0.107	ND	0.0796	0.0877	74.4	82.4	1	10.0-145			9.74	30
Dibenz(a,h)anthracene	0.107	ND	0.0740	0.0838	69.2	78.7	1	10.0-132			12.4	31
Fluoranthene	0.107	ND	0.0831	0.0919	77.7	86.4	1	10.0-153			10.1	33
Fluorene	0.107	ND	0.0754	0.0805	70.4	75.6	1	11.0-130			6.62	29
Indeno(1,2,3-cd)pyrene	0.107	ND	0.0752	0.0836	70.3	78.6	1	10.0-137			10.6	32
Naphthalene	0.107	ND	0.0754	0.0793	70.4	74.5	1	10.0-135			5.09	27
Phenanthrene	0.107	ND	0.0774	0.0843	72.3	79.2	1	10.0-144			8.56	31
Pyrene	0.107	ND	0.0843	0.0934	78.8	87.8	1	10.0-148			10.2	35
1-Methylnaphthalene	0.107	ND	0.0760	0.0806	71.1	75.8	1	10.0-142			5.89	28
2-Methylnaphthalene	0.107	ND	0.0754	0.0790	70.4	74.2	1	10.0-137			4.75	28
<i>(S) p-Terphenyl-d14</i>					82.6	88.5		23.0-120				
<i>(S) Nitrobenzene-d5</i>					91.0	96.9		14.0-149				
<i>(S) 2-Fluorobiphenyl</i>					78.1	82.6		34.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

# 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].
MDA	Minimum Detectable Activity.
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RER	Replicate Error Ratio.
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
B	The same analyte is found in the associated blank.
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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
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.



# GLOSSARY OF TERMS

Qualifier	Description
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.
V	The sample concentration is too high to evaluate accurate spike recoveries.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Ds

<sup>6</sup> Sr

<sup>7</sup> Qc

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# ACCREDITATIONS & LOCATIONS

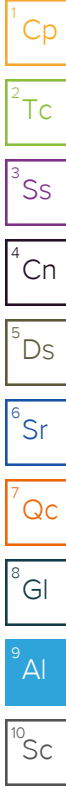
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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):**  
**CHAIN-OF-CUSTODY Analytical Request Document**  
 Pace National, 12065 Lebanon Road, Mt. Juliet, TN 37122  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here



Scan QR Code for instructions

*U865600*

Company Name: CTEH, LLC  
 Street Address: 5120 North Shore Drive, North Little Rock, AR 72118  
 Contact/Report To: Chevron-Bishop, Kyle Lawrence, Tami McMullin, Andy Henault, Eric Catin, Madelyn Klinkerman  
 Phone #: \_\_\_\_\_  
 E-Mail: chevron\_bishop@cteh.com; kylerlawrence@cteh.com; tmcnullin@cteh.com; ahenault@cteh.com  
 Cc E-Mail: ecatlin@cteh.com; mklinkerman@cteh.com

Customer Project #: PROJ-054017  
 Project Name: Bishop LOC  
 Site Collection Info/Facility ID (as applicable): Galeton, CO  
 Invoice to: CTEH  
 Invoice E-mail: ctehap@montrose-env.com  
 Purchase Order # (if applicable): \_\_\_\_\_  
 Quote #: \_\_\_\_\_

Specify Container Size \*\*

8oz	8oz	8oz	8oz	8oz	8oz	10	6
1	1	1	1	1	1	1	4

Identify Container Preservative Type\*\*\*

\*\* Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other  
 \*\*\* 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

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 [ X ] Other **5 Day**  
 Date Results Requested: \_\_\_\_\_  
 DW PWSID # or WW Permit # as applicable: \_\_\_\_\_  
 Field Filtered (if applicable): [ ] Yes [ ] No  
 Analysis: \_\_\_\_\_

Analysis Requested

VOCs 8260D; TPH- GRO/DRO/ORO 8015D	SVOCs 8270E; PAH 8270E SIM	Metals 6010D, 6020B, Cr 6 7199	Total N/TKN/NH3 EPA 350.1, 351.2, 9056A, SM 4500 Norg	TOC Walkley Black; pH	9045D/Sat. Paste; EC 9050A Mod	SAR USDA 20B; Hot Water	Soluble Boron	Radionuclides (U, Ra 226, RA 228) 901.1 - Bag	VOCs 8260D
X	X	X	X	X	X	X	X	X	-

Proj. Mgr.: 546-Jared Starkey  
 AcctNum / Client ID: CTEHER  
 Table #: T275920  
 Profile / Template: T275920  
 Pregel / Bottle Ord. ID: P1156679  
 Sample Comment: *alter*

\* 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)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Residual Chlorine		VOCs 8260D; TPH- GRO/DRO/ORO 8015D	SVOCs 8270E; PAH 8270E SIM	Metals 6010D, 6020B, Cr 6 7199	Total N/TKN/NH3 EPA 350.1, 351.2, 9056A, SM 4500 Norg	TOC Walkley Black; pH	9045D/Sat. Paste; EC 9050A Mod	SAR USDA 20B; Hot Water	Soluble Boron	Radionuclides (U, Ra 226, RA 228) 901.1 - Bag	VOCs 8260D
			Date	Time	Date	Time		Result	Units										
GAC00603T172-1S001	SS	G	-	-	6/3/2025	0930	5	-	-	X	X	X	X	X	X	X	X	X	-
<i>TF</i>																			

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C):	Corrected Temp. (°C):	[ ] On Ice
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Additional Instructions from Pace\* :  
 VOCs - full list including BTEX, 1,2,4-TMB, 1,3,5-TMB; SVOCs - full list plus PAHs Table 915-1, 1-methylnaphthalene, 2-methylnaphthalene; Metals by 6010D: Al, Sb, Be, Ca, Cr, Co, Fe, Mg, Mn, K, Na, Ti, V; Metals by 6020B: As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn

Relinquished by/Company: (Signature) *3.3.2025* *IE3* Date/Time: *06/03/25 1430*  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by/Company: (Signature) *PACE* Date/Time: *06/03/25 1430*  
 Received by/Company: (Signature) *Shant...* Date/Time: *6/3/25 8:00am*  
 Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Tracking Number: \_\_\_\_\_  
 Delivered by: [ ] In-Person [ ] Courier  
 [ ] FedEx [ ] UPS [ ] Other  
 Page: 1 of 1

*TLA9 0.9 + 0.4 = 1.3*  
**Sample Receipt Checklist**  
 COC Seal Present/Intact:  Y  N  NP If Applicable  
 COC Signed/Accurate:  Y  N VOA Zero Headspace:  Y  N  
 Bottles arrive intact:  Y  N Pres. Correct/Check:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N Condition:  NCF  OK  
 RA Screen <0.5 mR/hr:  Y  N  
*Count = 5*