



ANALYTICAL REPORT

June 13, 2025

Revised Report

CTEH - ER

Sample Delivery Group: L1857089
Samples Received: 05/09/2025
Project Number: PROJ-054017
Description: Bishop Loss of Containment Incident

Report To: CTEH
5120 North Shore Drive
North Little Rock, AR 72118

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Entire Report Reviewed By:

Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

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

ACCOUNT:
CTEH - ER

PROJECT:
PROJ-054017

SDG:
L1857089

DATE/TIME:
06/13/25 13:04

PAGE:
1 of 32

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

SAMPLE SUMMARY

GACO0508T114-1S001 L1857089-01

Collected by
M Beck

Collected date/time
05/08/25 09:25

Received date/time
05/09/25 13:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2511718	1	05/09/25 21:35	05/11/25 22:46	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2511443	1	05/09/25 15:55	05/09/25 16:04	CMB	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2511842	1	05/11/25 11:44	05/11/25 19:47	RTW	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2511831	10	05/10/25 09:02	05/11/25 22:46	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2511718	1	05/09/25 21:35	05/10/25 08:25	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2511776	5	05/12/25 10:00	05/12/25 13:53	PAN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2511740	1	05/09/25 20:02	05/10/25 00:58	BAG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2511795	1	05/09/25 14:48	05/10/25 02:45	ADM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2511725	1	05/09/25 20:40	05/10/25 03:37	NWH	Mt. Juliet, TN

¹Cp

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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 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

Report Revision History

Level II Report - Version 1: 05/12/25 18:57
Level II Report - Version 2: 05/14/25 13:13

Project Comments

ID correction

Wet Chemistry by Method 350.1

RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Batch	Lab Sample ID	Analytes
WG2511842	(DUP) R4213109-5	Ammonia Nitrogen

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

Batch	Lab Sample ID	Analytes
WG2511842	(MS) R4213109-3	Ammonia Nitrogen

Wet Chemistry by Method 4500NOrg D-2021

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

Batch	Lab Sample ID	Analytes
WG2511831	(MS) R4213119-11, (MSD) R4213119-13	Kjeldahl Nitrogen, TKN

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

Batch	Lab Sample ID	Analytes
WG2511831	(MS) R4213119-5	Kjeldahl Nitrogen, TKN

Wet Chemistry by Method WALKLEY-BLACK

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

Batch	Lab Sample ID	Analytes
WG2511776	(MS) R4213386-5, (MSD) R4213386-6	TOC By Walkley Black



CASE NARRATIVE

Metals (ICP) by Method 6010D

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

Batch	Lab Sample ID	Analytes
WG2511740	(MS) R4212640-5, (MSD) R4212640-6	Aluminum and Iron

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

Batch	Lab Sample ID	Analytes
WG2511740	(MSD) R4212640-6	Calcium

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

Batch	Lab Sample ID	Analytes
WG2511740	(MS) R4212640-5, (MSD) R4212640-6	Magnesium, Manganese and Potassium

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
WG2511795	L1857089-01	2,2-Dichloropropane, Bromomethane, Chloroethane and Methylene Chloride

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

Batch	Lab Sample ID	Analytes
WG2511795	(LCSD) R4212646-2, L1857089-01	2,2-Dichloropropane and Chloroethane

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

Batch	Lab Sample ID	Analytes
WG2511795	(LCS) R4212646-1, (LCSD) R4212646-2, L1857089-01	4-Methyl-2-pentanone (MIBK)

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
WG2511725	L1857089-01	2,2-Oxybis(1-Chloropropane), Bis(2-chlorethoxy)methane, Bis(2-chloroethyl)ether, Nitrobenzene, n-Nitrosodimethylamine, n-Nitrosodi-n-propylamine and Phenol

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

Batch	Lab Sample ID	Analytes
WG2511725	(MS) R4212844-3, (MSD) R4212844-4	Benzidine and Hexachlorocyclopentadiene

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	ug/kg		ug/kg		date / time	
Total Nitrogen	304000		22200	1	05/11/2025 22:46	WG2511718

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	89.9		1	05/09/2025 16:04	WG2511443

Wet Chemistry by Method 350.1

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	ug/kg		ug/kg		date / time	
Ammonia Nitrogen	ND		11100	1	05/11/2025 19:47	WG2511842

Wet Chemistry by Method 4500NOrg D-2021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	ug/kg		ug/kg		date / time	
Kjeldahl Nitrogen, TKN	301000		222000	10	05/11/2025 22:46	WG2511831

Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	ug/kg		ug/kg		date / time	
Nitrate-Nitrite	ND		22200	1	05/10/2025 08:25	WG2511718

Wet Chemistry by Method WALKLEY-BLACK

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/kg		ug/kg		date / time	
TOC By Walkley Black	2680000		500000	5	05/12/2025 13:53	WG2511776

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	ug/kg		ug/kg		date / time	
Aluminum	964000		22200	1	05/10/2025 00:58	WG2511740
Antimony	ND		2220	1	05/10/2025 00:58	WG2511740
Beryllium	ND		222	1	05/10/2025 00:58	WG2511740
Calcium	2390000		111000	1	05/10/2025 00:58	WG2511740
Cobalt	ND		1110	1	05/10/2025 00:58	WG2511740
Iron	2260000		11100	1	05/10/2025 00:58	WG2511740
Magnesium	594000		111000	1	05/10/2025 00:58	WG2511740
Manganese	60200		1110	1	05/10/2025 00:58	WG2511740
Potassium	351000		111000	1	05/10/2025 00:58	WG2511740
Sodium	ND		111000	1	05/10/2025 00:58	WG2511740
Thallium	ND		2220	1	05/10/2025 00:58	WG2511740
Vanadium	3480		2220	1	05/10/2025 00:58	WG2511740

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

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	ug/kg		ug/kg		date / time	
Acetone	ND		61.2	1	05/10/2025 02:45	WG2511795
Acrylonitrile	ND		15.3	1	05/10/2025 02:45	WG2511795
Bromobenzene	ND		15.3	1	05/10/2025 02:45	WG2511795
Bromodichloromethane	ND		3.06	1	05/10/2025 02:45	WG2511795
Bromoform	ND		30.6	1	05/10/2025 02:45	WG2511795
Bromomethane	ND	C3	15.3	1	05/10/2025 02:45	WG2511795

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
n-Butylbenzene	ND		15.3	1	05/10/2025 02:45	WG2511795
sec-Butylbenzene	ND		15.3	1	05/10/2025 02:45	WG2511795
tert-Butylbenzene	ND		6.12	1	05/10/2025 02:45	WG2511795
Carbon tetrachloride	ND		6.12	1	05/10/2025 02:45	WG2511795
Chlorobenzene	ND		3.06	1	05/10/2025 02:45	WG2511795
Chlorodibromomethane	ND		3.06	1	05/10/2025 02:45	WG2511795
Chloroethane	ND	C3 J4	6.12	1	05/10/2025 02:45	WG2511795
Chloroform	ND		3.06	1	05/10/2025 02:45	WG2511795
Chloromethane	ND		15.3	1	05/10/2025 02:45	WG2511795
2-Chlorotoluene	ND		3.06	1	05/10/2025 02:45	WG2511795
4-Chlorotoluene	ND		6.12	1	05/10/2025 02:45	WG2511795
1,2-Dibromo-3-Chloropropane	ND		30.6	1	05/10/2025 02:45	WG2511795
1,2-Dibromoethane	ND		3.06	1	05/10/2025 02:45	WG2511795
Dibromomethane	ND		6.12	1	05/10/2025 02:45	WG2511795
1,2-Dichlorobenzene	ND		6.12	1	05/10/2025 02:45	WG2511795
1,3-Dichlorobenzene	ND		6.12	1	05/10/2025 02:45	WG2511795
1,4-Dichlorobenzene	ND		6.12	1	05/10/2025 02:45	WG2511795
Dichlorodifluoromethane	ND		6.12	1	05/10/2025 02:45	WG2511795
1,1-Dichloroethane	ND		3.06	1	05/10/2025 02:45	WG2511795
1,2-Dichloroethane	ND		3.06	1	05/10/2025 02:45	WG2511795
1,1-Dichloroethene	ND		3.06	1	05/10/2025 02:45	WG2511795
cis-1,2-Dichloroethene	ND		3.06	1	05/10/2025 02:45	WG2511795
trans-1,2-Dichloroethene	ND		6.12	1	05/10/2025 02:45	WG2511795
1,2-Dichloropropane	ND		6.12	1	05/10/2025 02:45	WG2511795
1,1-Dichloropropene	ND		3.06	1	05/10/2025 02:45	WG2511795
1,3-Dichloropropane	ND		6.12	1	05/10/2025 02:45	WG2511795
cis-1,3-Dichloropropene	ND		3.06	1	05/10/2025 02:45	WG2511795
trans-1,3-Dichloropropene	ND		6.12	1	05/10/2025 02:45	WG2511795
2,2-Dichloropropane	ND	C3 J4	3.06	1	05/10/2025 02:45	WG2511795
Di-isopropyl ether	ND		1.22	1	05/10/2025 02:45	WG2511795
Hexachloro-1,3-butadiene	ND		30.6	1	05/10/2025 02:45	WG2511795
Isopropylbenzene	ND		3.06	1	05/10/2025 02:45	WG2511795
p-Isopropyltoluene	ND		6.12	1	05/10/2025 02:45	WG2511795
2-Butanone (MEK)	ND		122	1	05/10/2025 02:45	WG2511795
Methylene Chloride	ND	C3	30.6	1	05/10/2025 02:45	WG2511795
4-Methyl-2-pentanone (MIBK)	ND	J4	30.6	1	05/10/2025 02:45	WG2511795
Methyl tert-butyl ether	ND		1.22	1	05/10/2025 02:45	WG2511795
n-Propylbenzene	ND		6.12	1	05/10/2025 02:45	WG2511795
Styrene	ND		15.3	1	05/10/2025 02:45	WG2511795
1,1,1,2-Tetrachloroethane	ND		3.06	1	05/10/2025 02:45	WG2511795
1,1,2,2-Tetrachloroethane	ND		3.06	1	05/10/2025 02:45	WG2511795
1,1,2-Trichlorotrifluoroethane	ND		3.06	1	05/10/2025 02:45	WG2511795
Tetrachloroethene	ND		3.06	1	05/10/2025 02:45	WG2511795
1,2,3-Trichlorobenzene	ND		15.3	1	05/10/2025 02:45	WG2511795
1,2,4-Trichlorobenzene	ND		15.3	1	05/10/2025 02:45	WG2511795
1,1,1-Trichloroethane	ND		3.06	1	05/10/2025 02:45	WG2511795
1,1,2-Trichloroethane	ND		3.06	1	05/10/2025 02:45	WG2511795
Trichloroethene	ND		1.22	1	05/10/2025 02:45	WG2511795
Trichlorofluoromethane	ND		3.06	1	05/10/2025 02:45	WG2511795
1,2,3-Trichloropropane	ND		15.3	1	05/10/2025 02:45	WG2511795
1,2,3-Trimethylbenzene	ND		6.12	1	05/10/2025 02:45	WG2511795
Vinyl chloride	ND		3.06	1	05/10/2025 02:45	WG2511795
(S) Toluene-d8	115		75.0-131		05/10/2025 02:45	WG2511795
(S) 4-Bromofluorobenzene	86.7		67.0-138		05/10/2025 02:45	WG2511795
(S) 1,2-Dichloroethane-d4	86.7		70.0-130		05/10/2025 02:45	WG2511795

1

Cp

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Qc

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Gl

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Al

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Sc

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acenaphthylene	ND		37.0	1	05/10/2025 03:37	WG2511725
Benzdine	ND		1860	1	05/10/2025 03:37	WG2511725
Benzo(g,h,i)perylene	ND		37.0	1	05/10/2025 03:37	WG2511725
Bis(2-chlorethoxy)methane	ND	C3	370	1	05/10/2025 03:37	WG2511725
Bis(2-chloroethyl)ether	ND	C3	370	1	05/10/2025 03:37	WG2511725
2,2-Oxybis(1-Chloropropane)	ND	C3	370	1	05/10/2025 03:37	WG2511725
4-Bromophenyl-phenylether	ND		370	1	05/10/2025 03:37	WG2511725
2-Chloronaphthalene	ND		37.0	1	05/10/2025 03:37	WG2511725
4-Chlorophenyl-phenylether	ND		370	1	05/10/2025 03:37	WG2511725
1,2-Dichlorobenzene	ND		370	1	05/10/2025 03:37	WG2511725
1,3-Dichlorobenzene	ND		370	1	05/10/2025 03:37	WG2511725
1,4-Dichlorobenzene	ND		370	1	05/10/2025 03:37	WG2511725
3,3-Dichlorobenzidine	ND		370	1	05/10/2025 03:37	WG2511725
2,4-Dinitrotoluene	ND		370	1	05/10/2025 03:37	WG2511725
2,6-Dinitrotoluene	ND		370	1	05/10/2025 03:37	WG2511725
Hexachlorobenzene	ND		370	1	05/10/2025 03:37	WG2511725
Hexachloro-1,3-butadiene	ND		370	1	05/10/2025 03:37	WG2511725
Hexachlorocyclopentadiene	ND		370	1	05/10/2025 03:37	WG2511725
Hexachloroethane	ND		370	1	05/10/2025 03:37	WG2511725
Isophorone	ND		370	1	05/10/2025 03:37	WG2511725
Nitrobenzene	ND	C3	370	1	05/10/2025 03:37	WG2511725
n-Nitrosodimethylamine	ND	C3	370	1	05/10/2025 03:37	WG2511725
n-Nitrosodiphenylamine	ND		370	1	05/10/2025 03:37	WG2511725
n-Nitrosodi-n-propylamine	ND	C3	370	1	05/10/2025 03:37	WG2511725
Phenanthrene	ND		37.0	1	05/10/2025 03:37	WG2511725
Benzylbutyl phthalate	ND		370	1	05/10/2025 03:37	WG2511725
Bis(2-ethylhexyl)phthalate	ND		370	1	05/10/2025 03:37	WG2511725
Di-n-butyl phthalate	ND		370	1	05/10/2025 03:37	WG2511725
Diethyl phthalate	ND		370	1	05/10/2025 03:37	WG2511725
Dimethyl phthalate	ND		370	1	05/10/2025 03:37	WG2511725
Di-n-octyl phthalate	ND		370	1	05/10/2025 03:37	WG2511725
1,2,4-Trichlorobenzene	ND		370	1	05/10/2025 03:37	WG2511725
4-Chloro-3-methylphenol	ND		370	1	05/10/2025 03:37	WG2511725
2-Chlorophenol	ND		370	1	05/10/2025 03:37	WG2511725
2,4-Dichlorophenol	ND		370	1	05/10/2025 03:37	WG2511725
2,4-Dimethylphenol	ND		370	1	05/10/2025 03:37	WG2511725
4,6-Dinitro-2-methylphenol	ND		370	1	05/10/2025 03:37	WG2511725
2,4-Dinitrophenol	ND		370	1	05/10/2025 03:37	WG2511725
2-Nitrophenol	ND		370	1	05/10/2025 03:37	WG2511725
4-Nitrophenol	ND		370	1	05/10/2025 03:37	WG2511725
Pentachlorophenol	ND		370	1	05/10/2025 03:37	WG2511725
Phenol	ND	C3	370	1	05/10/2025 03:37	WG2511725
2,4,6-Trichlorophenol	ND		370	1	05/10/2025 03:37	WG2511725
(S) 2-Fluorophenol	54.3		12.0-120		05/10/2025 03:37	WG2511725
(S) Phenol-d5	46.6		10.0-120		05/10/2025 03:37	WG2511725
(S) Nitrobenzene-d5	46.8		10.0-122		05/10/2025 03:37	WG2511725
(S) 2-Fluorobiphenyl	48.9		15.0-120		05/10/2025 03:37	WG2511725
(S) 2,4,6-Tribromophenol	67.9		10.0-127		05/10/2025 03:37	WG2511725
(S) p-Terphenyl-d14	81.3		10.0-120		05/10/2025 03:37	WG2511725

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4212720-1 05/09/25 16:04

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1857099-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1857099-04 05/09/25 16:04 • (DUP) R4212720-3 05/09/25 16:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	81.9	81.3	1	0.725		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4212720-2 05/09/25 16:04

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	90.0-110	

⁹Sc

Method Blank (MB)

(MB) R4213109-1 05/11/25 19:41

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

L1857099-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1857099-06 05/11/25 20:05 • (DUP) R4213109-5 05/11/25 20:07

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/kg	ug/kg		%		%
Ammonia Nitrogen	ND	12500	1	20.9	P1	20

L1857099-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1857099-08 05/11/25 20:08 • (DUP) R4213109-6 05/11/25 20:10

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

Laboratory Control Sample (LCS)

(LCS) R4213109-2 05/11/25 19:43

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/kg	ug/kg	%	%	
Ammonia Nitrogen	250000	251000	100	90.0-110	

L1857099-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857099-04 05/11/25 20:01 • (MS) R4213109-3 05/11/25 20:02 • (MSD) R4213109-4 05/11/25 20:04

	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
Analyte	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Ammonia Nitrogen	305000	ND	341000	335000	112	110	1	90.0-110	J5		1.84	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4213119-1 05/11/25 22:26

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

L1857088-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1857088-04 05/11/25 22:33 • (DUP) R4213119-7 05/11/25 22:34

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/kg	ug/kg		%		%
Kjeldahl Nitrogen, TKN	755000	710000	10	6.10		20

L1857088-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1857088-05 05/11/25 22:35 • (DUP) R4213119-9 05/11/25 22:36

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/kg	ug/kg		%		%
Kjeldahl Nitrogen, TKN	618000	626000	10	1.28		20

Laboratory Control Sample (LCS)

(LCS) R4213119-3 05/11/25 22:26

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/kg	ug/kg	%	%	
Kjeldahl Nitrogen, TKN	480000	548000	114	81.7-124	

L1857088-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1857088-03 05/11/25 22:30 • (MS) R4213119-5 05/11/25 22:32

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/kg	ug/kg	ug/kg	%		%	
Kjeldahl Nitrogen, TKN	525000	1750000	1840000	18.5	10	81.7-124	J6

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1857099-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857099-04 05/11/25 22:54 • (MS) R4213119-11 05/11/25 22:56 • (MSD) R4213119-13 05/11/25 22:57

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Kjeldahl Nitrogen, TKN	488000	2080000	2400000	2480000	64.0	81.5	10	81.7-124	V	V	3.49	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4212781-1 05/10/25 06:14

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/kg		ug/kg	ug/kg
Nitrate-Nitrite	1310	⬇	606	20000

Laboratory Control Sample (LCS)

(LCS) R4212781-2 05/10/25 06:31

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/kg	ug/kg	%	%	
Nitrate-Nitrite	40000	36200	90.5	80.0-120	

L1857099-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857099-04 05/10/25 10:07 • (MS) R4212781-3 05/10/25 10:23 • (MSD) R4212781-4 05/10/25 10:40

	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
Analyte	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Nitrate-Nitrite	48800	ND	51100	52100	93.1	95.1	1.02	80.0-120			1.88	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4213386-1 05/12/25 13:47

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

L1857088-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1857088-09 05/12/25 13:50 • (DUP) R4213386-3 05/12/25 13:50

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/kg	ug/kg		%		%
TOC By Walkley Black	9410000	9220000	5	2.05		20

L1857088-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1857088-12 05/12/25 13:52 • (DUP) R4213386-4 05/12/25 13:52

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/kg	ug/kg		%		%
TOC By Walkley Black	8880000	7770000	4	13.2		20

Laboratory Control Sample (LCS)

(LCS) R4213386-2 05/12/25 13:48

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/kg	ug/kg	%	%	
TOC By Walkley Black	3230000	3720000	115	75.0-144	

L1857099-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857099-04 05/12/25 13:56 • (MS) R4213386-5 05/12/25 13:57 • (MSD) R4213386-6 05/12/25 13:57

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
TOC By Walkley Black	40000000	22000000	73700000	74400000	129	131	10	80.0-120	J5	J5	0.872	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4212640-1 05/10/25 00:23

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4212640-2 05/10/25 00:25

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1000000	952000	95.2	80.0-120	
Antimony	100000	93300	93.3	80.0-120	
Beryllium	100000	99900	99.9	80.0-120	
Calcium	1000000	990000	99.0	80.0-120	
Cobalt	100000	94200	94.2	80.0-120	
Iron	1000000	991000	99.1	80.0-120	
Magnesium	1000000	936000	93.6	80.0-120	
Manganese	100000	103000	103	80.0-120	
Potassium	1000000	976000	97.6	80.0-120	
Sodium	1000000	974000	97.4	80.0-120	
Thallium	100000	98700	98.7	80.0-120	
Vanadium	100000	98100	98.1	80.0-120	

L1857088-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857088-12 05/10/25 00:27 • (MS) R4212640-5 05/10/25 00:32 • (MSD) R4212640-6 05/10/25 00:34

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	1200000	7200000	5820000	5480000	0.000	0.000	1	75.0-125	V	V	5.98	20
Antimony	120000	ND	105000	107000	87.5	89.3	1	75.0-125			2.05	20

L1857088-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857088-12 05/10/25 00:27 • (MS) R4212640-5 05/10/25 00:32 • (MSD) R4212640-6 05/10/25 00:34

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Beryllium	120000	724	129000	133000	107	110	1	75.0-125			2.60	20
Calcium	1200000	3150000	4600000	4740000	121	133	1	75.0-125		J5	3.00	20
Cobalt	120000	4420	129000	130000	104	105	1	75.0-125			0.824	20
Iron	1200000	10100000	8350000	7060000	0.000	0.000	1	75.0-125	V	V	16.8	20
Magnesium	1200000	2880000	3370000	3310000	41.0	36.6	1	75.0-125	J6	J6	1.55	20
Manganese	120000	222000	334000	285000	93.6	52.6	1	75.0-125		J6	15.9	20
Potassium	1200000	1960000	2450000	2410000	41.0	38.0	1	75.0-125	J6	J6	1.47	20
Sodium	1200000	308000	1520000	1530000	101	102	1	75.0-125			0.946	20
Thallium	120000	ND	128000	130000	107	109	1	75.0-125			1.79	20
Vanadium	120000	16600	139000	140000	102	103	1	75.0-125			1.14	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4212646-3 05/10/25 01:25

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4212646-3 05/10/25 01:25

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	117			75.0-131
(S) 4-Bromofluorobenzene	86.3			67.0-138
(S) 1,2-Dichloroethane-d4	87.1			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4212646-1 05/09/25 23:30 • (LCSD) R4212646-2 05/09/25 23:50

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	625	528	560	84.5	89.6	10.0-160			5.88	31
Acrylonitrile	625	669	721	107	115	45.0-153			7.48	22
Bromobenzene	125	122	125	97.6	100	73.0-121			2.43	20
Bromodichloromethane	125	122	123	97.6	98.4	73.0-121			0.816	20
Bromoform	125	115	117	92.0	93.6	64.0-132			1.72	20
Bromomethane	125	78.8	82.3	63.0	65.8	56.0-147			4.35	20
n-Butylbenzene	125	119	131	95.2	105	68.0-135			9.60	20
sec-Butylbenzene	125	122	129	97.6	103	74.0-130			5.58	20
tert-Butylbenzene	125	116	122	92.8	97.6	75.0-127			5.04	20
Carbon tetrachloride	125	110	109	88.0	87.2	66.0-128			0.913	20
Chlorobenzene	125	140	142	112	114	76.0-128			1.42	20
Chlorodibromomethane	125	142	146	114	117	74.0-127			2.78	20

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

(LCS) R4212646-1 05/09/25 23:30 • (LCSD) R4212646-2 05/09/25 23:50

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroethane	125	81.4	74.3	65.1	59.4	61.0-134		J4	9.12	20
Chloroform	125	105	106	84.0	84.8	72.0-123			0.948	20
Chloromethane	125	126	119	101	95.2	51.0-138			5.71	20
2-Chlorotoluene	125	126	130	101	104	75.0-124			3.12	20
4-Chlorotoluene	125	121	122	96.8	97.6	75.0-124			0.823	20
1,2-Dibromo-3-Chloropropane	125	109	122	87.2	97.6	59.0-130			11.3	20
1,2-Dibromoethane	125	140	142	112	114	74.0-128			1.42	20
Dibromomethane	125	120	121	96.0	96.8	75.0-122			0.830	20
1,2-Dichlorobenzene	125	136	145	109	116	76.0-124			6.41	20
1,3-Dichlorobenzene	125	133	139	106	111	76.0-125			4.41	20
1,4-Dichlorobenzene	125	137	137	110	110	77.0-121			0.000	20
Dichlorodifluoromethane	125	105	109	84.0	87.2	43.0-156			3.74	20
1,1-Dichloroethane	125	125	128	100	102	70.0-127			2.37	20
1,2-Dichloroethane	125	118	122	94.4	97.6	65.0-131			3.33	20
1,1-Dichloroethene	125	108	106	86.4	84.8	65.0-131			1.87	20
cis-1,2-Dichloroethene	125	112	113	89.6	90.4	73.0-125			0.889	20
trans-1,2-Dichloroethene	125	107	105	85.6	84.0	71.0-125			1.89	20
1,2-Dichloropropane	125	144	144	115	115	74.0-125			0.000	20
1,1-Dichloropropene	125	118	116	94.4	92.8	73.0-125			1.71	20
1,3-Dichloropropane	125	148	151	118	121	80.0-125			2.01	20
cis-1,3-Dichloropropene	125	124	123	99.2	98.4	76.0-127			0.810	20
trans-1,3-Dichloropropene	125	144	145	115	116	73.0-127			0.692	20
2,2-Dichloropropane	125	74.4	73.4	59.5	58.7	59.0-135		J4	1.35	20
Di-isopropyl ether	125	151	152	121	122	60.0-136			0.660	20
Hexachloro-1,3-butadiene	125	105	117	84.0	93.6	57.0-150			10.8	20
Isopropylbenzene	125	120	125	96.0	100	72.0-127			4.08	20
p-Isopropyltoluene	125	130	135	104	108	72.0-133			3.77	20
2-Butanone (MEK)	625	852	951	136	152	30.0-160			11.0	24
Methylene Chloride	125	97.0	98.0	77.6	78.4	68.0-123			1.03	20
4-Methyl-2-pentanone (MIBK)	625	961	1020	154	163	56.0-143	J4	J4	5.96	20
Methyl tert-butyl ether	125	107	110	85.6	88.0	66.0-132			2.76	20
n-Propylbenzene	125	127	132	102	106	74.0-126			3.86	20
Styrene	125	118	121	94.4	96.8	72.0-127			2.51	20
1,1,1,2-Tetrachloroethane	125	123	127	98.4	102	74.0-129			3.20	20
1,1,2,2-Tetrachloroethane	125	124	128	99.2	102	68.0-128			3.17	20
1,1,2-Trichlorotrifluoroethane	125	111	105	88.8	84.0	61.0-139			5.56	20
Tetrachloroethene	125	132	136	106	109	70.0-136			2.99	20
1,2,3-Trichlorobenzene	125	140	161	112	129	59.0-139			14.0	20
1,2,4-Trichlorobenzene	125	117	141	93.6	113	62.0-137			18.6	20
1,1,1-Trichloroethane	125	111	109	88.8	87.2	69.0-126			1.82	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4212646-1 05/09/25 23:30 • (LCSD) R4212646-2 05/09/25 23:50

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
1,1,2-Trichloroethane	125	147	153	118	122	78.0-123			4.00	20
Trichloroethene	125	132	133	106	106	76.0-126			0.755	20
Trichlorofluoromethane	125	107	107	85.6	85.6	61.0-142			0.000	20
1,2,3-Trichloropropane	125	117	115	93.6	92.0	67.0-129			1.72	20
1,2,3-Trimethylbenzene	125	125	132	100	106	74.0-124			5.45	20
Vinyl chloride	125	118	107	94.4	85.6	63.0-134			9.78	20
(S) Toluene-d8				115	115	75.0-131				
(S) 4-Bromofluorobenzene				85.6	85.3	67.0-138				
(S) 1,2-Dichloroethane-d4				92.2	92.1	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4212844-2 05/10/25 01:12

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4212844-2 05/10/25 01:12

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	88.7			12.0-120
(S) Phenol-d5	74.6			10.0-120
(S) Nitrobenzene-d5	71.8			10.0-122
(S) 2-Fluorobiphenyl	72.4			15.0-120
(S) 2,4,6-Tribromophenol	81.8			10.0-127
(S) p-Terphenyl-d14	87.4			10.0-120

Laboratory Control Sample (LCS)

(LCS) R4212844-1 05/10/25 00:51

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthylene	666	425	63.8	40.0-120	
Benzidine	1330	459	34.5	10.0-120	
Benzo(g,h,i)perylene	666	487	73.1	43.0-120	
Bis(2-chlorethoxy)methane	666	251	37.7	20.0-120	
Bis(2-chloroethyl)ether	666	324	48.6	16.0-120	
2,2-Oxybis(1-Chloropropane)	666	266	39.9	23.0-120	
4-Bromophenyl-phenylether	666	509	76.4	40.0-120	
2-Chloronaphthalene	666	350	52.6	35.0-120	
4-Chlorophenyl-phenylether	666	432	64.9	40.0-120	
1,2-Dichlorobenzene	666	338	50.8	32.0-120	
1,3-Dichlorobenzene	666	342	51.4	30.0-120	
1,4-Dichlorobenzene	666	332	49.8	31.0-120	
3,3-Dichlorobenzidine	1330	1020	76.7	28.0-120	
2,4-Dinitrotoluene	666	452	67.9	45.0-120	
2,6-Dinitrotoluene	666	400	60.1	42.0-120	
Hexachlorobenzene	666	463	69.5	39.0-120	
Hexachloro-1,3-butadiene	666	326	48.9	15.0-120	
Hexachlorocyclopentadiene	666	308	46.2	15.0-120	
Hexachloroethane	666	342	51.4	17.0-120	
Isophorone	666	284	42.6	23.0-120	
Nitrobenzene	666	278	41.7	17.0-120	
n-Nitrosodimethylamine	666	333	50.0	10.0-125	
n-Nitrosodiphenylamine	666	435	65.3	40.0-120	
n-Nitrosodi-n-propylamine	666	322	48.3	26.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4212844-1 05/10/25 00:51

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Phenanthrene	666	483	72.5	42.0-120	
Benzylbutyl phthalate	666	498	74.8	40.0-120	
Bis(2-ethylhexyl)phthalate	666	473	71.0	41.0-120	
Di-n-butyl phthalate	666	514	77.2	43.0-120	
Diethyl phthalate	666	469	70.4	43.0-120	
Dimethyl phthalate	666	428	64.3	43.0-120	
Di-n-octyl phthalate	666	516	77.5	40.0-120	
1,2,4-Trichlorobenzene	666	343	51.5	17.0-120	
4-Chloro-3-methylphenol	666	340	51.1	28.0-120	
2-Chlorophenol	666	338	50.8	28.0-120	
2,4-Dichlorophenol	666	373	56.0	25.0-120	
2,4-Dimethylphenol	666	298	44.7	15.0-120	
4,6-Dinitro-2-methylphenol	666	439	65.9	16.0-120	
2,4-Dinitrophenol	666	281	42.2	10.0-120	
2-Nitrophenol	666	321	48.2	20.0-120	
4-Nitrophenol	666	389	58.4	27.0-120	
Pentachlorophenol	666	359	53.9	29.0-120	
Phenol	666	342	51.4	28.0-120	
2,4,6-Trichlorophenol	666	389	58.4	37.0-120	
(S) 2-Fluorophenol			69.4	12.0-120	
(S) Phenol-d5			56.3	10.0-120	
(S) Nitrobenzene-d5			40.5	10.0-122	
(S) 2-Fluorobiphenyl			58.3	15.0-120	
(S) 2,4,6-Tribromophenol			78.7	10.0-127	
(S) p-Terphenyl-d14			75.1	10.0-120	

L1857099-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857099-04 05/10/25 07:25 • (MS) R4212844-3 05/10/25 07:46 • (MSD) R4212844-4 05/10/25 08:07

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 %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acenaphthylene	794	ND	504	460	63.5	57.6	1	25.0-120			9.11	32
Benzidine	1590	ND	ND	ND	0.000	0.000	1	10.0-120	J6	J6	0.000	40
Benzo(g,h,i)perylene	794	ND	523	481	65.8	60.2	1	10.0-120			8.27	33
Bis(2-chlorethoxy)methane	794	ND	ND	ND	36.2	35.2	1	10.0-120			2.15	34
Bis(2-chloroethyl)ether	794	ND	ND	ND	42.6	40.5	1	10.0-120			4.43	40
2,2-Oxybis(1-Chloropropane)	794	ND	ND	ND	34.9	32.4	1	10.0-120			6.83	40
4-Bromophenyl-phenylether	794	ND	565	553	71.2	69.3	1	27.0-120			2.18	30
2-Chloronaphthalene	794	ND	426	385	53.7	48.2	1	20.0-120			10.2	32

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1857099-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857099-04 05/10/25 07:25 • (MS) R4212844-3 05/10/25 07:46 • (MSD) R4212844-4 05/10/25 08:07

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	794	ND	525	474	66.2	59.3	1	24.0-120			10.3	29
1,2-Dichlorobenzene	794	ND	ND	ND	44.9	42.5	1	10.0-120			4.91	38
1,3-Dichlorobenzene	794	ND	ND	ND	42.9	41.6	1	10.0-120			2.54	40
1,4-Dichlorobenzene	794	ND	ND	ND	46.3	44.0	1	10.0-120			4.41	39
3,3-Dichlorobenzidine	1590	ND	783	783	49.3	48.9	1	10.0-120			0.000	34
2,4-Dinitrotoluene	794	ND	548	480	69.1	60.1	1	30.0-120			13.3	31
2,6-Dinitrotoluene	794	ND	519	477	65.4	59.8	1	25.0-120			8.33	31
Hexachlorobenzene	794	ND	493	460	62.2	57.6	1	27.0-120			6.91	28
Hexachloro-1,3-butadiene	794	ND	ND	ND	44.8	42.4	1	10.0-120			4.93	38
Hexachlorocyclopentadiene	794	ND	ND	ND	6.51	4.43	1	10.0-120	J6	J6	37.3	40
Hexachloroethane	794	ND	ND	ND	36.0	30.9	1	10.0-120			14.7	40
Isophorone	794	ND	ND	ND	40.2	38.1	1	13.0-120			4.71	34
Nitrobenzene	794	ND	ND	ND	37.5	35.5	1	10.0-120			5.04	36
n-Nitrosodimethylamine	794	ND	ND	ND	46.2	44.8	1	10.0-127			2.36	40
n-Nitrosodiphenylamine	794	ND	504	481	63.5	60.2	1	17.0-120			4.71	29
n-Nitrosodi-n-propylamine	794	ND	ND	ND	47.1	42.7	1	10.0-120			9.23	37
Phenanthrene	794	ND	508	465	64.0	58.3	1	17.0-120			8.78	31
Benzylbutyl phthalate	794	ND	589	569	74.2	71.3	1	23.0-120			3.38	30
Bis(2-ethylhexyl)phthalate	794	ND	582	553	73.4	69.3	1	17.0-126			5.16	30
Di-n-butyl phthalate	794	ND	552	530	69.5	66.4	1	30.0-120			4.06	29
Diethyl phthalate	794	ND	579	531	72.9	66.5	1	26.0-120			8.58	28
Dimethyl phthalate	794	ND	529	481	66.6	60.2	1	25.0-120			9.43	29
Di-n-octyl phthalate	794	ND	636	611	80.2	76.5	1	21.0-123			4.11	29
1,2,4-Trichlorobenzene	794	ND	ND	ND	45.4	43.6	1	12.0-120			3.45	37
4-Chloro-3-methylphenol	794	ND	458	431	57.7	54.0	1	15.0-120			6.04	30
2-Chlorophenol	794	ND	ND	ND	44.6	43.3	1	15.0-120			2.44	37
2,4-Dichlorophenol	794	ND	418	ND	52.6	49.4	1	20.0-120			5.71	31
2,4-Dimethylphenol	794	ND	ND	ND	44.8	43.7	1	10.0-120			1.73	33
4,6-Dinitro-2-methylphenol	794	ND	ND	ND	37.4	35.5	1	10.0-120			4.63	39
2,4-Dinitrophenol	794	ND	ND	ND	34.3	30.3	1	10.0-121			11.9	40
2-Nitrophenol	794	ND	ND	ND	46.9	44.3	1	12.0-120			5.04	39
4-Nitrophenol	794	ND	546	510	68.8	63.9	1	10.0-137			6.71	32
Pentachlorophenol	794	ND	471	476	59.4	59.6	1	10.0-160			1.03	31
Phenol	794	ND	ND	ND	47.5	42.5	1	12.0-120			10.6	38
2,4,6-Trichlorophenol	794	ND	542	514	68.3	64.4	1	19.0-120			5.32	32
(S) 2-Fluorophenol					57.4	53.4		12.0-120				
(S) Phenol-d5					50.0	46.0		10.0-120				
(S) Nitrobenzene-d5					36.9	35.5		10.0-122				
(S) 2-Fluorobiphenyl					55.4	52.3		15.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1857099-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857099-04 05/10/25 07:25 • (MS) R4212844-3 05/10/25 07:46 • (MSD) R4212844-4 05/10/25 08:07

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 %
(S) 2,4,6-Tribromophenol					73.7	73.9		10.0-127				
(S) p-Terphenyl-d14					78.8	72.2		10.0-120				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

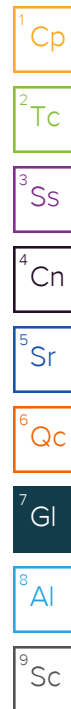
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
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.



Multiple Parcel Form

L# C1857089

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
SWA	TLA9	1.5	0.4	1.9	<input checked="" type="checkbox"/> Yes / No / Not Present
SWA	TLA9	3.0	0.4	3.4	<input checked="" type="checkbox"/> Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Ashley Bainter
Name

05/09/2025
Date

Multiple Parcel Form

L# C1857089

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
SWA	TLA9	1.5	0.4	1.9	<input checked="" type="checkbox"/> Yes / No / Not Present
SWA	TLA9	3.0	0.4	3.4	<input checked="" type="checkbox"/> Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Ashley Bainter
Name

05/09/2025
Date

[illegible]