ANALYTICAL REPORT

May 10, 2025

Revised Report

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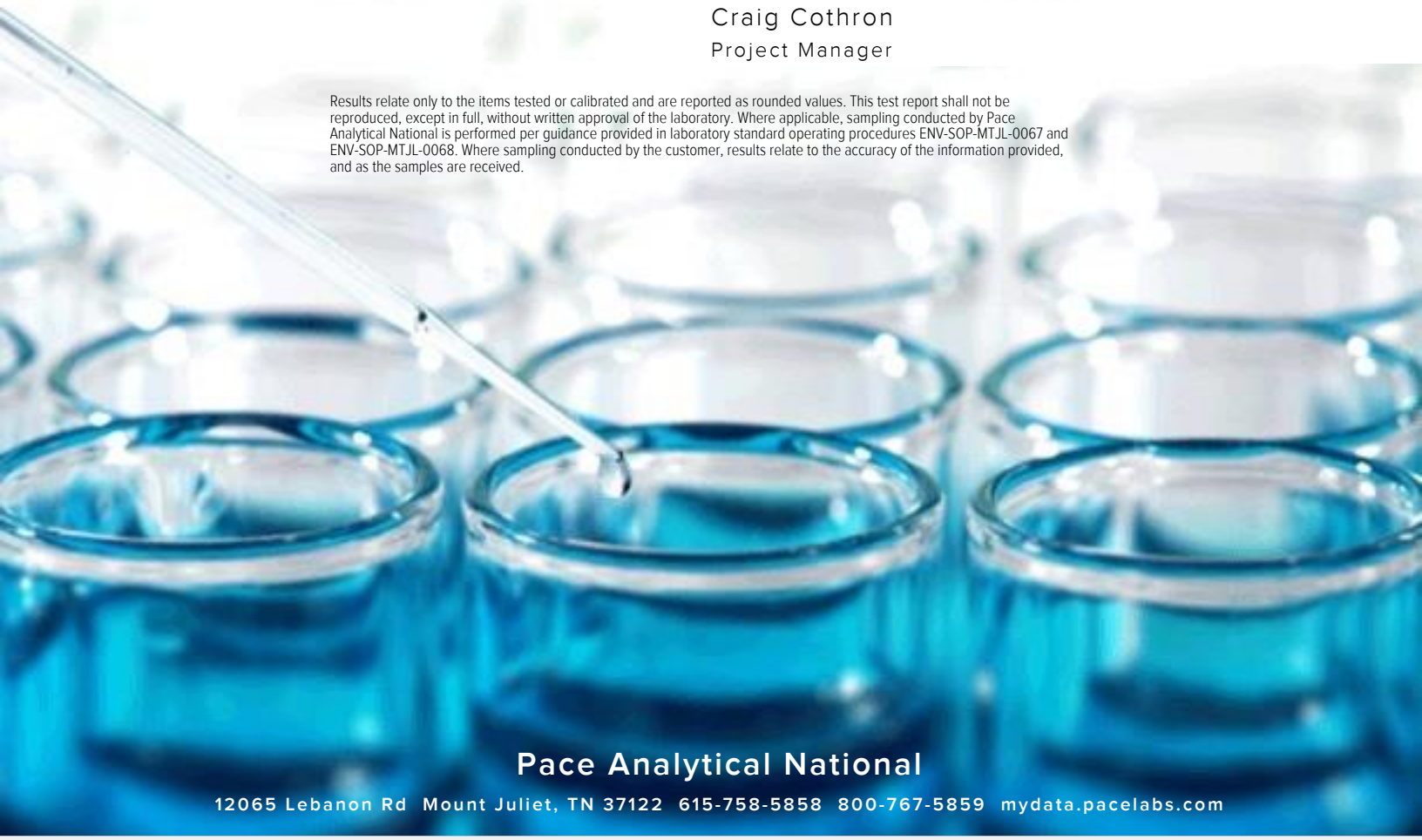
CTEH - ER

Sample Delivery Group:	L1852144
Samples Received:	04/26/2025
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:

Craig Cothron
Project Manager



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GACO0425T050S006 L1852144-01

Collected by	Collected date/time	Received date/time
SB	04/25/25 11:05	04/26/25 11:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2500830	1	04/26/25 17:08	04/27/25 22:56	KMB	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2500849	1	04/26/25 17:34	04/26/25 17:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2501023	1	04/28/25 01:55	04/28/25 13:18	LAS	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2501021	10	04/27/25 07:58	04/27/25 22:56	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500830	1.02	04/26/25 17:08	04/27/25 00:09	AJC	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2500894	4	04/26/25 18:27	04/27/25 17:06	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2500811	1	04/26/25 18:10	04/27/25 01:39	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2500836	1	04/26/25 14:01	04/27/25 00:01	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2500827	1	04/26/25 17:38	04/27/25 02:46	JRM	Mt. Juliet, TN

GACO0425T050S007 L1852144-02

Collected by	Collected date/time	Received date/time
SB	04/25/25 11:30	04/26/25 11:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2500830	1	04/26/25 17:08	04/27/25 22:57	KMB	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2500849	1	04/26/25 17:34	04/26/25 17:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2501023	1	04/28/25 01:55	04/28/25 13:21	LAS	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2501021	10	04/27/25 07:58	04/27/25 22:57	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500830	1.02	04/26/25 17:08	04/27/25 00:22	AJC	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2500894	5	04/26/25 18:27	04/27/25 17:06	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2500811	1	04/26/25 18:10	04/27/25 01:41	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2500836	1	04/26/25 14:01	04/27/25 00:20	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2500827	2	04/26/25 17:38	04/27/25 07:19	JRM	Mt. Juliet, TN

GACO0425T050S008 L1852144-03

Collected by	Collected date/time	Received date/time
SB	04/25/25 12:35	04/26/25 11:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2500830	1	04/26/25 17:08	04/27/25 23:01	KMB	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2500849	1	04/26/25 17:34	04/26/25 17:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2501023	1	04/28/25 01:55	04/28/25 13:27	LAS	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2501021	10	04/27/25 07:58	04/27/25 23:01	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500830	5.1	04/26/25 17:08	04/27/25 00:35	AJC	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2500894	5	04/26/25 18:27	04/27/25 17:07	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2500811	1	04/26/25 18:10	04/27/25 01:30	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2500836	1	04/26/25 14:01	04/27/25 00:39	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2500827	1	04/26/25 17:38	04/27/25 03:06	JRM	Mt. Juliet, TN

GACO0425T050S009 L1852144-04

Collected by	Collected date/time	Received date/time
SB	04/25/25 12:50	04/26/25 11:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2500830	1	04/26/25 17:08	04/27/25 23:02	KMB	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2500849	1	04/26/25 17:34	04/26/25 17:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2501023	1	04/28/25 01:55	04/28/25 13:28	LAS	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2501021	10	04/27/25 07:58	04/27/25 23:02	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500830	5	04/26/25 17:08	04/27/25 00:48	AJC	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2500894	2	04/26/25 18:27	04/27/25 17:11	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2500811	1	04/26/25 18:10	04/27/25 01:43	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2500836	1	04/26/25 14:01	04/27/25 00:58	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2500827	1	04/26/25 17:38	04/27/25 03:27	JRM	Mt. Juliet, TN

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

GACO0425T050C009 L1852144-05

Collected by	Collected date/time	Received date/time
SB	04/25/25 12:50	04/26/25 11:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2500830	1	04/26/25 17:08	04/27/25 23:04	KMB	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2500849	1	04/26/25 17:34	04/26/25 17:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2501023	1	04/28/25 01:55	04/28/25 13:30	LAS	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2501021	10	04/27/25 07:58	04/27/25 23:04	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500830	5	04/26/25 17:08	04/27/25 01:00	AJC	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2500894	2	04/26/25 18:27	04/27/25 17:12	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2500811	1	04/26/25 18:10	04/27/25 01:49	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2500836	1	04/26/25 14:01	04/27/25 01:17	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2500827	1	04/26/25 17:38	04/27/25 03:48	JRM	Mt. Juliet, TN

GACO0425T050T003 L1852144-06

Collected by	Collected date/time	Received date/time
SB	04/25/25 07:30	04/26/25 11:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2500633	1	04/26/25 16:57	04/26/25 16:57	WHS	Mt. Juliet, TN

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

Craig Cothron
Project Manager

Report Revision History

Level II Report - Version 1: 04/28/25 17:53
Level II Report - Version 2: 04/28/25 22:36

Project Comments

ID Corrections
5/10/25 - updated ID GACO0425T050T003

Wet Chemistry by Method 4500NOrg D-2021

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

Batch	Lab Sample ID	Analytes
WG2501021	(MS) R4206033-3, (MS) R4206033-7, (MSD) R4206033-4	Kjeldahl Nitrogen, TKN

Metals (ICP) by Method 6010D

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

Batch	Lab Sample ID	Analytes
WG2500811	(MS) R4205751-6, L1852144-03	Aluminum

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

Batch	Lab Sample ID	Analytes
WG2500811	(MS) R4205751-6, (MSD) R4205751-7, L1852144-03	Antimony and Manganese

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

Batch	Lab Sample ID	Analytes
WG2500811	(MS) R4205751-6, (MSD) R4205751-7, L1852144-03	Calcium and Iron

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

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

Batch	Lab Sample ID	Analytes
WG2500633	L1852144-06	1,2,4-Trichlorobenzene, Bromomethane and Naphthalene
WG2500836	L1852144-01	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane, Bromoform, Bromomethane and Vinyl chloride
WG2500836	L1852144-02	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane, Bromoform, Bromomethane and Vinyl chloride
WG2500836	L1852144-03	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane, Bromoform, Bromomethane and Vinyl chloride
WG2500836	L1852144-04	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane, Bromoform, Bromomethane and Vinyl chloride
WG2500836	L1852144-05	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane, Bromoform, Bromomethane and Vinyl chloride

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

Batch	Lab Sample ID	Analytes
WG2500633	(LCS) R4205706-1, (LCSD) R4205706-2, L1852144-06	Acrolein
WG2500836	(LCS) R4205772-1, L1852144-01, 02, 03, 04, 05	Acetone

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

Batch	Lab Sample ID	Analytes
WG2500633	(LCS) R4205706-1, (LCSD) R4205706-2, L1852144-06	Naphthalene

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

Batch	Lab Sample ID	Analytes
WG2500836	(MSD) R4205772-4	Hexachloro-1,3-butadiene

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

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

Batch	Lab Sample ID	Analytes
WG2500827	L1852144-01	Benzidine
WG2500827	L1852144-02	Benzidine
WG2500827	L1852144-03	Benzidine
WG2500827	L1852144-04	Benzidine
WG2500827	L1852144-05	Benzidine

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

Batch	Lab Sample ID	Analytes
WG2500827	(MS) R4205959-3, (MSD) R4205959-4, L1852144-02	Hexachlorocyclopentadiene

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

Batch	Lab Sample ID	Analytes
WG2500827	(MSD) R4205959-4, L1852144-02	Benzidine, Hexachlorocyclopentadiene and n-Nitrosodimethylamine

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	2150000		22100	1	04/27/2025 22:56	WG2500830

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	04/26/2025 17:45	WG2500849

Wet Chemistry by Method 350.1

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		10800	1	04/28/2025 13:18	WG2501023

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	2130000		216000	10	04/27/2025 22:56	WG2501021

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		22100	1.02	04/27/2025 00:09	WG2500830

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	16800000		400000	4	04/27/2025 17:06	WG2500894

Metals (ICP) by Method 6010D

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Aluminum	3740000		21600	1	04/27/2025 01:39	WG2500811
Antimony	ND		2160	1	04/27/2025 01:39	WG2500811
Beryllium	388		216	1	04/27/2025 01:39	WG2500811
Calcium	4000000		108000	1	04/27/2025 01:39	WG2500811
Cobalt	2730		1080	1	04/27/2025 01:39	WG2500811
Iron	6070000		10800	1	04/27/2025 01:39	WG2500811
Magnesium	1640000		108000	1	04/27/2025 01:39	WG2500811
Manganese	164000		1080	1	04/27/2025 01:39	WG2500811
Potassium	1320000		108000	1	04/27/2025 01:39	WG2500811
Sodium	ND		108000	1	04/27/2025 01:39	WG2500811
Thallium	ND		2160	1	04/27/2025 01:39	WG2500811
Vanadium	11300		2160	1	04/27/2025 01:39	WG2500811

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	ND	J4	58.2	1	04/27/2025 00:01	WG2500836
Acrylonitrile	ND		14.6	1	04/27/2025 00:01	WG2500836
Bromobenzene	ND		14.6	1	04/27/2025 00:01	WG2500836
Bromodichloromethane	ND		2.91	1	04/27/2025 00:01	WG2500836
Bromoform	ND	C3	29.1	1	04/27/2025 00:01	WG2500836
Bromomethane	ND	C3	14.6	1	04/27/2025 00:01	WG2500836

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		14.6	1	04/27/2025 00:01	WG2500836
sec-Butylbenzene	ND		14.6	1	04/27/2025 00:01	WG2500836
tert-Butylbenzene	ND		5.82	1	04/27/2025 00:01	WG2500836
Carbon tetrachloride	ND		5.82	1	04/27/2025 00:01	WG2500836
Chlorobenzene	ND		2.91	1	04/27/2025 00:01	WG2500836
Chlorodibromomethane	ND		2.91	1	04/27/2025 00:01	WG2500836
Chloroethane	ND		5.82	1	04/27/2025 00:01	WG2500836
Chloroform	ND		2.91	1	04/27/2025 00:01	WG2500836
Chloromethane	ND		14.6	1	04/27/2025 00:01	WG2500836
2-Chlorotoluene	ND		2.91	1	04/27/2025 00:01	WG2500836
4-Chlorotoluene	ND		5.82	1	04/27/2025 00:01	WG2500836
1,2-Dibromo-3-Chloropropane	ND	C3	29.1	1	04/27/2025 00:01	WG2500836
1,2-Dibromoethane	ND		2.91	1	04/27/2025 00:01	WG2500836
Dibromomethane	ND		5.82	1	04/27/2025 00:01	WG2500836
1,2-Dichlorobenzene	ND		5.82	1	04/27/2025 00:01	WG2500836
1,3-Dichlorobenzene	ND		5.82	1	04/27/2025 00:01	WG2500836
1,4-Dichlorobenzene	ND		5.82	1	04/27/2025 00:01	WG2500836
Dichlorodifluoromethane	ND		5.82	1	04/27/2025 00:01	WG2500836
1,1-Dichloroethane	ND		2.91	1	04/27/2025 00:01	WG2500836
1,2-Dichloroethane	ND		2.91	1	04/27/2025 00:01	WG2500836
1,1-Dichloroethene	ND		2.91	1	04/27/2025 00:01	WG2500836
cis-1,2-Dichloroethene	ND		2.91	1	04/27/2025 00:01	WG2500836
trans-1,2-Dichloroethene	ND		5.82	1	04/27/2025 00:01	WG2500836
1,2-Dichloropropane	ND		5.82	1	04/27/2025 00:01	WG2500836
1,1-Dichloropropene	ND		2.91	1	04/27/2025 00:01	WG2500836
1,3-Dichloropropane	ND		5.82	1	04/27/2025 00:01	WG2500836
cis-1,3-Dichloropropene	ND		2.91	1	04/27/2025 00:01	WG2500836
trans-1,3-Dichloropropene	ND		5.82	1	04/27/2025 00:01	WG2500836
2,2-Dichloropropane	ND		2.91	1	04/27/2025 00:01	WG2500836
Di-isopropyl ether	ND		1.16	1	04/27/2025 00:01	WG2500836
Hexachloro-1,3-butadiene	ND		29.1	1	04/27/2025 00:01	WG2500836
Isopropylbenzene	ND		2.91	1	04/27/2025 00:01	WG2500836
p-Isopropyltoluene	ND		5.82	1	04/27/2025 00:01	WG2500836
2-Butanone (MEK)	ND		116	1	04/27/2025 00:01	WG2500836
Methylene Chloride	ND		29.1	1	04/27/2025 00:01	WG2500836
4-Methyl-2-pentanone (MIBK)	ND		29.1	1	04/27/2025 00:01	WG2500836
Methyl tert-butyl ether	ND		1.16	1	04/27/2025 00:01	WG2500836
n-Propylbenzene	ND		5.82	1	04/27/2025 00:01	WG2500836
Styrene	ND		14.6	1	04/27/2025 00:01	WG2500836
1,1,1,2-Tetrachloroethane	ND		2.91	1	04/27/2025 00:01	WG2500836
1,1,2,2-Tetrachloroethane	ND		2.91	1	04/27/2025 00:01	WG2500836
1,1,2-Trichlorotrifluoroethane	ND		2.91	1	04/27/2025 00:01	WG2500836
Tetrachloroethene	ND		2.91	1	04/27/2025 00:01	WG2500836
1,2,3-Trichlorobenzene	ND	C3	14.6	1	04/27/2025 00:01	WG2500836
1,2,4-Trichlorobenzene	ND	C3	14.6	1	04/27/2025 00:01	WG2500836
1,1,1-Trichloroethane	ND		2.91	1	04/27/2025 00:01	WG2500836
1,1,2-Trichloroethane	ND		2.91	1	04/27/2025 00:01	WG2500836
Trichloroethene	ND		1.16	1	04/27/2025 00:01	WG2500836
Trichlorofluoromethane	ND		2.91	1	04/27/2025 00:01	WG2500836
1,2,3-Trichloropropane	ND		14.6	1	04/27/2025 00:01	WG2500836
1,2,3-Trimethylbenzene	ND		5.82	1	04/27/2025 00:01	WG2500836
Vinyl chloride	ND	C3	2.91	1	04/27/2025 00:01	WG2500836
(S) Toluene-d8	*99.1*		*75.0-131*		*04/27/2025 00:01*	WG2500836
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*04/27/2025 00:01*	WG2500836
(S) 1,2-Dichloroethane-d4	*112*		*70.0-130*		*04/27/2025 00:01*	WG2500836

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		36.0	1	04/27/2025 02:46	WG2500827
Benzidine	ND	C7	1810	1	04/27/2025 02:46	WG2500827
Benzo(g,h,i)perylene	ND		36.0	1	04/27/2025 02:46	WG2500827
Bis(2-chlorethoxy)methane	ND		360	1	04/27/2025 02:46	WG2500827
Bis(2-chloroethyl)ether	ND		360	1	04/27/2025 02:46	WG2500827
2,2-Oxybis(1-Chloropropane)	ND		360	1	04/27/2025 02:46	WG2500827
4-Bromophenyl-phenylether	ND		360	1	04/27/2025 02:46	WG2500827
2-Chloronaphthalene	ND		36.0	1	04/27/2025 02:46	WG2500827
4-Chlorophenyl-phenylether	ND		360	1	04/27/2025 02:46	WG2500827
1,2-Dichlorobenzene	ND		360	1	04/27/2025 02:46	WG2500827
1,3-Dichlorobenzene	ND		360	1	04/27/2025 02:46	WG2500827
1,4-Dichlorobenzene	ND		360	1	04/27/2025 02:46	WG2500827
3,3-Dichlorobenzidine	ND		360	1	04/27/2025 02:46	WG2500827
2,4-Dinitrotoluene	ND		360	1	04/27/2025 02:46	WG2500827
2,6-Dinitrotoluene	ND		360	1	04/27/2025 02:46	WG2500827
Hexachlorobenzene	ND		360	1	04/27/2025 02:46	WG2500827
Hexachloro-1,3-butadiene	ND		360	1	04/27/2025 02:46	WG2500827
Hexachlorocyclopentadiene	ND		360	1	04/27/2025 02:46	WG2500827
Hexachloroethane	ND		360	1	04/27/2025 02:46	WG2500827
Isophorone	ND		360	1	04/27/2025 02:46	WG2500827
Nitrobenzene	ND		360	1	04/27/2025 02:46	WG2500827
n-Nitrosodimethylamine	ND		360	1	04/27/2025 02:46	WG2500827
n-Nitrosodiphenylamine	ND		360	1	04/27/2025 02:46	WG2500827
n-Nitrosodi-n-propylamine	ND		360	1	04/27/2025 02:46	WG2500827
Phenanthrene	ND		36.0	1	04/27/2025 02:46	WG2500827
Benzylbutyl phthalate	ND		360	1	04/27/2025 02:46	WG2500827
Bis(2-ethylhexyl)phthalate	ND		360	1	04/27/2025 02:46	WG2500827
Di-n-butyl phthalate	ND		360	1	04/27/2025 02:46	WG2500827
Diethyl phthalate	ND		360	1	04/27/2025 02:46	WG2500827
Dimethyl phthalate	ND		360	1	04/27/2025 02:46	WG2500827
Di-n-octyl phthalate	ND		360	1	04/27/2025 02:46	WG2500827
1,2,4-Trichlorobenzene	ND		360	1	04/27/2025 02:46	WG2500827
4-Chloro-3-methylphenol	ND		360	1	04/27/2025 02:46	WG2500827
2-Chlorophenol	ND		360	1	04/27/2025 02:46	WG2500827
2,4-Dichlorophenol	ND		360	1	04/27/2025 02:46	WG2500827
2,4-Dimethylphenol	ND		360	1	04/27/2025 02:46	WG2500827
4,6-Dinitro-2-methylphenol	ND		360	1	04/27/2025 02:46	WG2500827
2,4-Dinitrophenol	ND		360	1	04/27/2025 02:46	WG2500827
2-Nitrophenol	ND		360	1	04/27/2025 02:46	WG2500827
4-Nitrophenol	ND		360	1	04/27/2025 02:46	WG2500827
Pentachlorophenol	ND		360	1	04/27/2025 02:46	WG2500827
Phenol	ND		360	1	04/27/2025 02:46	WG2500827
2,4,6-Trichlorophenol	ND		360	1	04/27/2025 02:46	WG2500827
(S) 2-Fluorophenol	*72.9*		*12.0-120*		*04/27/2025 02:46*	WG2500827
(S) Phenol-d5	*66.4*		*10.0-120*		*04/27/2025 02:46*	WG2500827
(S) Nitrobenzene-d5	*56.7*		*10.0-122*		*04/27/2025 02:46*	WG2500827
(S) 2-Fluorobiphenyl	*65.3*		*15.0-120*		*04/27/2025 02:46*	WG2500827
(S) 2,4,6-Tribromophenol	*88.5*		*10.0-127*		*04/27/2025 02:46*	WG2500827
(S) p-Terphenyl-d14	*66.6*		*10.0-120*		*04/27/2025 02:46*	WG2500827

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	1480000		21800	1	04/27/2025 22:57	WG2500830

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.8		1	04/26/2025 17:45	WG2500849

Wet Chemistry by Method 350.1

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		10700	1	04/28/2025 13:21	WG2501023

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1460000		213000	10	04/27/2025 22:57	WG2501021

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		21800	1.02	04/27/2025 00:22	WG2500830

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	14400000		500000	5	04/27/2025 17:06	WG2500894

Metals (ICP) by Method 6010D

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Aluminum	2310000		21300	1	04/27/2025 01:41	WG2500811
Antimony	ND		2130	1	04/27/2025 01:41	WG2500811
Beryllium	400		213	1	04/27/2025 01:41	WG2500811
Calcium	8380000		107000	1	04/27/2025 01:41	WG2500811
Cobalt	2160		1070	1	04/27/2025 01:41	WG2500811
Iron	6450000		10700	1	04/27/2025 01:41	WG2500811
Magnesium	1410000		107000	1	04/27/2025 01:41	WG2500811
Manganese	178000		1070	1	04/27/2025 01:41	WG2500811
Potassium	1070000		107000	1	04/27/2025 01:41	WG2500811
Sodium	151000		107000	1	04/27/2025 01:41	WG2500811
Thallium	ND		2130	1	04/27/2025 01:41	WG2500811
Vanadium	11000		2130	1	04/27/2025 01:41	WG2500811

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	ND	J4	56.6	1	04/27/2025 00:20	WG2500836
Acrylonitrile	ND		14.2	1	04/27/2025 00:20	WG2500836
Bromobenzene	ND		14.2	1	04/27/2025 00:20	WG2500836
Bromodichloromethane	ND		2.83	1	04/27/2025 00:20	WG2500836
Bromoform	ND	C3	28.3	1	04/27/2025 00:20	WG2500836
Bromomethane	ND	C3	14.2	1	04/27/2025 00:20	WG2500836

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		14.2	1	04/27/2025 00:20	WG2500836
sec-Butylbenzene	ND		14.2	1	04/27/2025 00:20	WG2500836
tert-Butylbenzene	ND		5.66	1	04/27/2025 00:20	WG2500836
Carbon tetrachloride	ND		5.66	1	04/27/2025 00:20	WG2500836
Chlorobenzene	ND		2.83	1	04/27/2025 00:20	WG2500836
Chlorodibromomethane	ND		2.83	1	04/27/2025 00:20	WG2500836
Chloroethane	ND		5.66	1	04/27/2025 00:20	WG2500836
Chloroform	ND		2.83	1	04/27/2025 00:20	WG2500836
Chloromethane	ND		14.2	1	04/27/2025 00:20	WG2500836
2-Chlorotoluene	ND		2.83	1	04/27/2025 00:20	WG2500836
4-Chlorotoluene	ND		5.66	1	04/27/2025 00:20	WG2500836
1,2-Dibromo-3-Chloropropane	ND	C3	28.3	1	04/27/2025 00:20	WG2500836
1,2-Dibromoethane	ND		2.83	1	04/27/2025 00:20	WG2500836
Dibromomethane	ND		5.66	1	04/27/2025 00:20	WG2500836
1,2-Dichlorobenzene	ND		5.66	1	04/27/2025 00:20	WG2500836
1,3-Dichlorobenzene	ND		5.66	1	04/27/2025 00:20	WG2500836
1,4-Dichlorobenzene	ND		5.66	1	04/27/2025 00:20	WG2500836
Dichlorodifluoromethane	ND		5.66	1	04/27/2025 00:20	WG2500836
1,1-Dichloroethane	ND		2.83	1	04/27/2025 00:20	WG2500836
1,2-Dichloroethane	ND		2.83	1	04/27/2025 00:20	WG2500836
1,1-Dichloroethene	ND		2.83	1	04/27/2025 00:20	WG2500836
cis-1,2-Dichloroethene	ND		2.83	1	04/27/2025 00:20	WG2500836
trans-1,2-Dichloroethene	ND		5.66	1	04/27/2025 00:20	WG2500836
1,2-Dichloropropane	ND		5.66	1	04/27/2025 00:20	WG2500836
1,1-Dichloropropene	ND		2.83	1	04/27/2025 00:20	WG2500836
1,3-Dichloropropane	ND		5.66	1	04/27/2025 00:20	WG2500836
cis-1,3-Dichloropropene	ND		2.83	1	04/27/2025 00:20	WG2500836
trans-1,3-Dichloropropene	ND		5.66	1	04/27/2025 00:20	WG2500836
2,2-Dichloropropane	ND		2.83	1	04/27/2025 00:20	WG2500836
Di-isopropyl ether	ND		1.13	1	04/27/2025 00:20	WG2500836
Hexachloro-1,3-butadiene	ND		28.3	1	04/27/2025 00:20	WG2500836
Isopropylbenzene	ND		2.83	1	04/27/2025 00:20	WG2500836
p-Isopropyltoluene	ND		5.66	1	04/27/2025 00:20	WG2500836
2-Butanone (MEK)	ND		113	1	04/27/2025 00:20	WG2500836
Methylene Chloride	ND		28.3	1	04/27/2025 00:20	WG2500836
4-Methyl-2-pentanone (MIBK)	ND		28.3	1	04/27/2025 00:20	WG2500836
Methyl tert-butyl ether	ND		1.13	1	04/27/2025 00:20	WG2500836
n-Propylbenzene	ND		5.66	1	04/27/2025 00:20	WG2500836
Styrene	ND		14.2	1	04/27/2025 00:20	WG2500836
1,1,1,2-Tetrachloroethane	ND		2.83	1	04/27/2025 00:20	WG2500836
1,1,2,2-Tetrachloroethane	ND		2.83	1	04/27/2025 00:20	WG2500836
1,1,2-Trichlorotrifluoroethane	ND		2.83	1	04/27/2025 00:20	WG2500836
Tetrachloroethene	ND		2.83	1	04/27/2025 00:20	WG2500836
1,2,3-Trichlorobenzene	ND	C3	14.2	1	04/27/2025 00:20	WG2500836
1,2,4-Trichlorobenzene	ND	C3	14.2	1	04/27/2025 00:20	WG2500836
1,1,1-Trichloroethane	ND		2.83	1	04/27/2025 00:20	WG2500836
1,1,2-Trichloroethane	ND		2.83	1	04/27/2025 00:20	WG2500836
Trichloroethene	ND		1.13	1	04/27/2025 00:20	WG2500836
Trichlorofluoromethane	ND		2.83	1	04/27/2025 00:20	WG2500836
1,2,3-Trichloropropane	ND		14.2	1	04/27/2025 00:20	WG2500836
1,2,3-Trimethylbenzene	ND		5.66	1	04/27/2025 00:20	WG2500836
Vinyl chloride	ND	C3	2.83	1	04/27/2025 00:20	WG2500836
(S) Toluene-d8	*98.4*		*75.0-131*		*04/27/2025 00:20*	WG2500836
(S) 4-Bromofluorobenzene	*96.1*		*67.0-138*		*04/27/2025 00:20*	WG2500836
(S) 1,2-Dichloroethane-d4	*109*		*70.0-130*		*04/27/2025 00:20*	WG2500836

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		71.0	2	04/27/2025 07:19	WG2500827
Benzidine	ND	C7 J3	3560	2	04/27/2025 07:19	WG2500827
Benzo(g,h,i)perylene	ND		71.0	2	04/27/2025 07:19	WG2500827
Bis(2-chlorethoxy)methane	ND		710	2	04/27/2025 07:19	WG2500827
Bis(2-chloroethyl)ether	ND		710	2	04/27/2025 07:19	WG2500827
2,2-Oxybis(1-Chloropropane)	ND		710	2	04/27/2025 07:19	WG2500827
4-Bromophenyl-phenylether	ND		710	2	04/27/2025 07:19	WG2500827
2-Chloronaphthalene	ND		71.0	2	04/27/2025 07:19	WG2500827
4-Chlorophenyl-phenylether	ND		710	2	04/27/2025 07:19	WG2500827
1,2-Dichlorobenzene	ND		710	2	04/27/2025 07:19	WG2500827
1,3-Dichlorobenzene	ND		710	2	04/27/2025 07:19	WG2500827
1,4-Dichlorobenzene	ND		710	2	04/27/2025 07:19	WG2500827
3,3-Dichlorobenzidine	ND		710	2	04/27/2025 07:19	WG2500827
2,4-Dinitrotoluene	ND		710	2	04/27/2025 07:19	WG2500827
2,6-Dinitrotoluene	ND		710	2	04/27/2025 07:19	WG2500827
Hexachlorobenzene	ND		710	2	04/27/2025 07:19	WG2500827
Hexachloro-1,3-butadiene	ND		710	2	04/27/2025 07:19	WG2500827
Hexachlorocyclopentadiene	ND	J3 J6	710	2	04/27/2025 07:19	WG2500827
Hexachloroethane	ND		710	2	04/27/2025 07:19	WG2500827
Isophorone	ND		710	2	04/27/2025 07:19	WG2500827
Nitrobenzene	ND		710	2	04/27/2025 07:19	WG2500827
n-Nitrosodimethylamine	ND	J3	710	2	04/27/2025 07:19	WG2500827
n-Nitrosodiphenylamine	ND		710	2	04/27/2025 07:19	WG2500827
n-Nitrosodi-n-propylamine	ND		710	2	04/27/2025 07:19	WG2500827
Phenanthrene	ND		71.0	2	04/27/2025 07:19	WG2500827
Benzylbutyl phthalate	ND		710	2	04/27/2025 07:19	WG2500827
Bis(2-ethylhexyl)phthalate	ND		710	2	04/27/2025 07:19	WG2500827
Di-n-butyl phthalate	ND		710	2	04/27/2025 07:19	WG2500827
Diethyl phthalate	ND		710	2	04/27/2025 07:19	WG2500827
Dimethyl phthalate	ND		710	2	04/27/2025 07:19	WG2500827
Di-n-octyl phthalate	ND		710	2	04/27/2025 07:19	WG2500827
1,2,4-Trichlorobenzene	ND		710	2	04/27/2025 07:19	WG2500827
4-Chloro-3-methylphenol	ND		710	2	04/27/2025 07:19	WG2500827
2-Chlorophenol	ND		710	2	04/27/2025 07:19	WG2500827
2,4-Dichlorophenol	ND		710	2	04/27/2025 07:19	WG2500827
2,4-Dimethylphenol	ND		710	2	04/27/2025 07:19	WG2500827
4,6-Dinitro-2-methylphenol	ND		710	2	04/27/2025 07:19	WG2500827
2,4-Dinitrophenol	ND		710	2	04/27/2025 07:19	WG2500827
2-Nitrophenol	ND		710	2	04/27/2025 07:19	WG2500827
4-Nitrophenol	ND		710	2	04/27/2025 07:19	WG2500827
Pentachlorophenol	ND		710	2	04/27/2025 07:19	WG2500827
Phenol	ND		710	2	04/27/2025 07:19	WG2500827
2,4,6-Trichlorophenol	ND		710	2	04/27/2025 07:19	WG2500827
(S) 2-Fluorophenol	*71.5*		*12.0-120*		*04/27/2025 07:19*	WG2500827
(S) Phenol-d5	*64.7*		*10.0-120*		*04/27/2025 07:19*	WG2500827
(S) Nitrobenzene-d5	*56.8*		*10.0-122*		*04/27/2025 07:19*	WG2500827
(S) 2-Fluorobiphenyl	*64.8*		*15.0-120*		*04/27/2025 07:19*	WG2500827
(S) 2,4,6-Tribromophenol	*92.7*		*10.0-127*		*04/27/2025 07:19*	WG2500827
(S) p-Terphenyl-d14	*68.5*		*10.0-120*		*04/27/2025 07:19*	WG2500827

Sample Narrative:

L1852144-02 WG2500827: Dilution due to matrix impact during extract concentration procedure.

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	2080000		113000	1	04/27/2025 23:01	WG2500830

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	04/26/2025 17:45	WG2500849

Wet Chemistry by Method 350.1

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		11100	1	04/28/2025 13:27	WG2501023

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	2030000		221000	10	04/27/2025 23:01	WG2501021

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		113000	5.1	04/27/2025 00:35	WG2500830

Sample Narrative:

L1852144-03 WG2500830: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	18000000		500000	5	04/27/2025 17:07	WG2500894

Metals (ICP) by Method 6010D

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Aluminum	4000000	J5	22100	1	04/27/2025 01:30	WG2500811
Antimony	ND	J6	2210	1	04/27/2025 01:30	WG2500811
Beryllium	449		221	1	04/27/2025 01:30	WG2500811
Calcium	4660000	V	111000	1	04/27/2025 01:30	WG2500811
Cobalt	3330		1110	1	04/27/2025 01:30	WG2500811
Iron	7210000	V	11100	1	04/27/2025 01:30	WG2500811
Magnesium	1690000		111000	1	04/27/2025 01:30	WG2500811
Manganese	219000	J6	1110	1	04/27/2025 01:30	WG2500811
Potassium	1460000		111000	1	04/27/2025 01:30	WG2500811
Sodium	151000		111000	1	04/27/2025 01:30	WG2500811
Thallium	ND		2210	1	04/27/2025 01:30	WG2500811
Vanadium	13300		2210	1	04/27/2025 01:30	WG2500811

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	ND	J4	60.7	1	04/27/2025 00:39	WG2500836
Acrylonitrile	ND		15.2	1	04/27/2025 00:39	WG2500836
Bromobenzene	ND		15.2	1	04/27/2025 00:39	WG2500836

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromodichloromethane	ND		3.03	1	04/27/2025 00:39	WG2500836
Bromoform	ND	C3	30.3	1	04/27/2025 00:39	WG2500836
Bromomethane	ND	C3	15.2	1	04/27/2025 00:39	WG2500836
n-Butylbenzene	ND		15.2	1	04/27/2025 00:39	WG2500836
sec-Butylbenzene	ND		15.2	1	04/27/2025 00:39	WG2500836
tert-Butylbenzene	ND		6.07	1	04/27/2025 00:39	WG2500836
Carbon tetrachloride	ND		6.07	1	04/27/2025 00:39	WG2500836
Chlorobenzene	ND		3.03	1	04/27/2025 00:39	WG2500836
Chlorodibromomethane	ND		3.03	1	04/27/2025 00:39	WG2500836
Chloroethane	ND		6.07	1	04/27/2025 00:39	WG2500836
Chloroform	ND		3.03	1	04/27/2025 00:39	WG2500836
Chloromethane	ND		15.2	1	04/27/2025 00:39	WG2500836
2-Chlorotoluene	ND		3.03	1	04/27/2025 00:39	WG2500836
4-Chlorotoluene	ND		6.07	1	04/27/2025 00:39	WG2500836
1,2-Dibromo-3-Chloropropane	ND	C3	30.3	1	04/27/2025 00:39	WG2500836
1,2-Dibromoethane	ND		3.03	1	04/27/2025 00:39	WG2500836
Dibromomethane	ND		6.07	1	04/27/2025 00:39	WG2500836
1,2-Dichlorobenzene	ND		6.07	1	04/27/2025 00:39	WG2500836
1,3-Dichlorobenzene	ND		6.07	1	04/27/2025 00:39	WG2500836
1,4-Dichlorobenzene	ND		6.07	1	04/27/2025 00:39	WG2500836
Dichlorodifluoromethane	ND		6.07	1	04/27/2025 00:39	WG2500836
1,1-Dichloroethane	ND		3.03	1	04/27/2025 00:39	WG2500836
1,2-Dichloroethane	ND		3.03	1	04/27/2025 00:39	WG2500836
1,1-Dichloroethene	ND		3.03	1	04/27/2025 00:39	WG2500836
cis-1,2-Dichloroethene	ND		3.03	1	04/27/2025 00:39	WG2500836
trans-1,2-Dichloroethene	ND		6.07	1	04/27/2025 00:39	WG2500836
1,2-Dichloropropane	ND		6.07	1	04/27/2025 00:39	WG2500836
1,1-Dichloropropene	ND		3.03	1	04/27/2025 00:39	WG2500836
1,3-Dichloropropane	ND		6.07	1	04/27/2025 00:39	WG2500836
cis-1,3-Dichloropropene	ND		3.03	1	04/27/2025 00:39	WG2500836
trans-1,3-Dichloropropene	ND		6.07	1	04/27/2025 00:39	WG2500836
2,2-Dichloropropane	ND		3.03	1	04/27/2025 00:39	WG2500836
Di-isopropyl ether	ND		1.21	1	04/27/2025 00:39	WG2500836
Hexachloro-1,3-butadiene	ND		30.3	1	04/27/2025 00:39	WG2500836
Isopropylbenzene	ND		3.03	1	04/27/2025 00:39	WG2500836
p-Isopropyltoluene	ND		6.07	1	04/27/2025 00:39	WG2500836
2-Butanone (MEK)	ND		121	1	04/27/2025 00:39	WG2500836
Methylene Chloride	ND		30.3	1	04/27/2025 00:39	WG2500836
4-Methyl-2-pentanone (MIBK)	ND		30.3	1	04/27/2025 00:39	WG2500836
Methyl tert-butyl ether	ND		1.21	1	04/27/2025 00:39	WG2500836
n-Propylbenzene	ND		6.07	1	04/27/2025 00:39	WG2500836
Styrene	ND		15.2	1	04/27/2025 00:39	WG2500836
1,1,1,2-Tetrachloroethane	ND		3.03	1	04/27/2025 00:39	WG2500836
1,1,2,2-Tetrachloroethane	ND		3.03	1	04/27/2025 00:39	WG2500836
1,1,2-Trichlorotrifluoroethane	ND		3.03	1	04/27/2025 00:39	WG2500836
Tetrachloroethene	ND		3.03	1	04/27/2025 00:39	WG2500836
1,2,3-Trichlorobenzene	ND	C3	15.2	1	04/27/2025 00:39	WG2500836
1,2,4-Trichlorobenzene	ND	C3	15.2	1	04/27/2025 00:39	WG2500836
1,1,1-Trichloroethane	ND		3.03	1	04/27/2025 00:39	WG2500836
1,1,2-Trichloroethane	ND		3.03	1	04/27/2025 00:39	WG2500836
Trichloroethene	ND		1.21	1	04/27/2025 00:39	WG2500836
Trichlorofluoromethane	ND		3.03	1	04/27/2025 00:39	WG2500836
1,2,3-Trichloropropane	ND		15.2	1	04/27/2025 00:39	WG2500836
1,2,3-Trimethylbenzene	ND		6.07	1	04/27/2025 00:39	WG2500836
Vinyl chloride	ND	C3	3.03	1	04/27/2025 00:39	WG2500836
(S) Toluene-d8	*98.6*		*75.0-131*		*04/27/2025 00:39*	WG2500836

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*96.0*		*67.0-138*		*04/27/2025 00:39*	WG2500836
(S) 1,2-Dichloroethane-d4	*110*		*70.0-130*		*04/27/2025 00:39*	WG2500836

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		36.9	1	04/27/2025 03:06	WG2500827
Benzidine	ND	C7	1850	1	04/27/2025 03:06	WG2500827
Benzo(g,h,i)perylene	ND		36.9	1	04/27/2025 03:06	WG2500827
Bis(2-chlorethoxy)methane	ND		369	1	04/27/2025 03:06	WG2500827
Bis(2-chloroethyl)ether	ND		369	1	04/27/2025 03:06	WG2500827
2,2-Oxybis(1-Chloropropane)	ND		369	1	04/27/2025 03:06	WG2500827
4-Bromophenyl-phenylether	ND		369	1	04/27/2025 03:06	WG2500827
2-Chloronaphthalene	ND		36.9	1	04/27/2025 03:06	WG2500827
4-Chlorophenyl-phenylether	ND		369	1	04/27/2025 03:06	WG2500827
1,2-Dichlorobenzene	ND		369	1	04/27/2025 03:06	WG2500827
1,3-Dichlorobenzene	ND		369	1	04/27/2025 03:06	WG2500827
1,4-Dichlorobenzene	ND		369	1	04/27/2025 03:06	WG2500827
3,3-Dichlorobenzidine	ND		369	1	04/27/2025 03:06	WG2500827
2,4-Dinitrotoluene	ND		369	1	04/27/2025 03:06	WG2500827
2,6-Dinitrotoluene	ND		369	1	04/27/2025 03:06	WG2500827
Hexachlorobenzene	ND		369	1	04/27/2025 03:06	WG2500827
Hexachloro-1,3-butadiene	ND		369	1	04/27/2025 03:06	WG2500827
Hexachlorocyclopentadiene	ND		369	1	04/27/2025 03:06	WG2500827
Hexachloroethane	ND		369	1	04/27/2025 03:06	WG2500827
Isophorone	ND		369	1	04/27/2025 03:06	WG2500827
Nitrobenzene	ND		369	1	04/27/2025 03:06	WG2500827
n-Nitrosodimethylamine	ND		369	1	04/27/2025 03:06	WG2500827
n-Nitrosodiphenylamine	ND		369	1	04/27/2025 03:06	WG2500827
n-Nitrosodi-n-propylamine	ND		369	1	04/27/2025 03:06	WG2500827
Phenanthrene	ND		36.9	1	04/27/2025 03:06	WG2500827
Benzylbutyl phthalate	ND		369	1	04/27/2025 03:06	WG2500827
Bis(2-ethylhexyl)phthalate	ND		369	1	04/27/2025 03:06	WG2500827
Di-n-butyl phthalate	ND		369	1	04/27/2025 03:06	WG2500827
Diethyl phthalate	ND		369	1	04/27/2025 03:06	WG2500827
Dimethyl phthalate	ND		369	1	04/27/2025 03:06	WG2500827
Di-n-octyl phthalate	ND		369	1	04/27/2025 03:06	WG2500827
1,2,4-Trichlorobenzene	ND		369	1	04/27/2025 03:06	WG2500827
4-Chloro-3-methylphenol	ND		369	1	04/27/2025 03:06	WG2500827
2-Chlorophenol	ND		369	1	04/27/2025 03:06	WG2500827
2,4-Dichlorophenol	ND		369	1	04/27/2025 03:06	WG2500827
2,4-Dimethylphenol	ND		369	1	04/27/2025 03:06	WG2500827
4,6-Dinitro-2-methylphenol	ND		369	1	04/27/2025 03:06	WG2500827
2,4-Dinitrophenol	ND		369	1	04/27/2025 03:06	WG2500827
2-Nitrophenol	ND		369	1	04/27/2025 03:06	WG2500827
4-Nitrophenol	ND		369	1	04/27/2025 03:06	WG2500827
Pentachlorophenol	ND		369	1	04/27/2025 03:06	WG2500827
Phenol	ND		369	1	04/27/2025 03:06	WG2500827
2,4,6-Trichlorophenol	ND		369	1	04/27/2025 03:06	WG2500827
(S) 2-Fluorophenol	*77.2*		*12.0-120*		*04/27/2025 03:06*	WG2500827
(S) Phenol-d5	*68.3*		*10.0-120*		*04/27/2025 03:06*	WG2500827
(S) Nitrobenzene-d5	*59.2*		*10.0-122*		*04/27/2025 03:06*	WG2500827
(S) 2-Fluorobiphenyl	*67.8*		*15.0-120*		*04/27/2025 03:06*	WG2500827
(S) 2,4,6-Tribromophenol	*92.8*		*10.0-127*		*04/27/2025 03:06*	WG2500827
(S) p-Terphenyl-d14	*66.2*		*10.0-120*		*04/27/2025 03:06*	WG2500827

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	1530000		108000	1	04/27/2025 23:02	WG2500830

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.2		1	04/26/2025 17:45	WG2500849

Wet Chemistry by Method 350.1

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		10800	1	04/28/2025 13:28	WG2501023

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1480000		217000	10	04/27/2025 23:02	WG2501021

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		108000	5	04/27/2025 00:48	WG2500830

Sample Narrative:

L1852144-04 WG2500830: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	13400000		200000	2	04/27/2025 17:11	WG2500894

Metals (ICP) by Method 6010D

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Aluminum	4330000		21700	1	04/27/2025 01:43	WG2500811
Antimony	ND		2170	1	04/27/2025 01:43	WG2500811
Beryllium	504		217	1	04/27/2025 01:43	WG2500811
Calcium	40000000		108000	1	04/27/2025 01:43	WG2500811
Cobalt	4710		1080	1	04/27/2025 01:43	WG2500811
Iron	9980000		10800	1	04/27/2025 01:43	WG2500811
Magnesium	4160000		108000	1	04/27/2025 01:43	WG2500811
Manganese	308000		1080	1	04/27/2025 01:43	WG2500811
Potassium	1220000		108000	1	04/27/2025 01:43	WG2500811
Sodium	178000		108000	1	04/27/2025 01:43	WG2500811
Thallium	ND		2170	1	04/27/2025 01:43	WG2500811
Vanadium	13000		2170	1	04/27/2025 01:43	WG2500811

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	ND	J4	58.5	1	04/27/2025 00:58	WG2500836
Acrylonitrile	ND		14.6	1	04/27/2025 00:58	WG2500836
Bromobenzene	ND		14.6	1	04/27/2025 00:58	WG2500836

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromodichloromethane	ND		2.93	1	04/27/2025 00:58	WG2500836
Bromoform	ND	C3	29.3	1	04/27/2025 00:58	WG2500836
Bromomethane	ND	C3	14.6	1	04/27/2025 00:58	WG2500836
n-Butylbenzene	ND		14.6	1	04/27/2025 00:58	WG2500836
sec-Butylbenzene	ND		14.6	1	04/27/2025 00:58	WG2500836
tert-Butylbenzene	ND		5.85	1	04/27/2025 00:58	WG2500836
Carbon tetrachloride	ND		5.85	1	04/27/2025 00:58	WG2500836
Chlorobenzene	ND		2.93	1	04/27/2025 00:58	WG2500836
Chlorodibromomethane	ND		2.93	1	04/27/2025 00:58	WG2500836
Chloroethane	ND		5.85	1	04/27/2025 00:58	WG2500836
Chloroform	ND		2.93	1	04/27/2025 00:58	WG2500836
Chloromethane	ND		14.6	1	04/27/2025 00:58	WG2500836
2-Chlorotoluene	ND		2.93	1	04/27/2025 00:58	WG2500836
4-Chlorotoluene	ND		5.85	1	04/27/2025 00:58	WG2500836
1,2-Dibromo-3-Chloropropane	ND	C3	29.3	1	04/27/2025 00:58	WG2500836
1,2-Dibromoethane	ND		2.93	1	04/27/2025 00:58	WG2500836
Dibromomethane	ND		5.85	1	04/27/2025 00:58	WG2500836
1,2-Dichlorobenzene	ND		5.85	1	04/27/2025 00:58	WG2500836
1,3-Dichlorobenzene	ND		5.85	1	04/27/2025 00:58	WG2500836
1,4-Dichlorobenzene	ND		5.85	1	04/27/2025 00:58	WG2500836
Dichlorodifluoromethane	ND		5.85	1	04/27/2025 00:58	WG2500836
1,1-Dichloroethane	ND		2.93	1	04/27/2025 00:58	WG2500836
1,2-Dichloroethane	ND		2.93	1	04/27/2025 00:58	WG2500836
1,1-Dichloroethene	ND		2.93	1	04/27/2025 00:58	WG2500836
cis-1,2-Dichloroethene	ND		2.93	1	04/27/2025 00:58	WG2500836
trans-1,2-Dichloroethene	ND		5.85	1	04/27/2025 00:58	WG2500836
1,2-Dichloropropane	ND		5.85	1	04/27/2025 00:58	WG2500836
1,1-Dichloropropene	ND		2.93	1	04/27/2025 00:58	WG2500836
1,3-Dichloropropane	ND		5.85	1	04/27/2025 00:58	WG2500836
cis-1,3-Dichloropropene	ND		2.93	1	04/27/2025 00:58	WG2500836
trans-1,3-Dichloropropene	ND		5.85	1	04/27/2025 00:58	WG2500836
2,2-Dichloropropane	ND		2.93	1	04/27/2025 00:58	WG2500836
Di-isopropyl ether	ND		1.17	1	04/27/2025 00:58	WG2500836
Hexachloro-1,3-butadiene	ND		29.3	1	04/27/2025 00:58	WG2500836
Isopropylbenzene	ND		2.93	1	04/27/2025 00:58	WG2500836
p-Isopropyltoluene	ND		5.85	1	04/27/2025 00:58	WG2500836
2-Butanone (MEK)	ND		117	1	04/27/2025 00:58	WG2500836
Methylene Chloride	ND		29.3	1	04/27/2025 00:58	WG2500836
4-Methyl-2-pentanone (MIBK)	ND		29.3	1	04/27/2025 00:58	WG2500836
Methyl tert-butyl ether	ND		1.17	1	04/27/2025 00:58	WG2500836
n-Propylbenzene	ND		5.85	1	04/27/2025 00:58	WG2500836
Styrene	ND		14.6	1	04/27/2025 00:58	WG2500836
1,1,1,2-Tetrachloroethane	ND		2.93	1	04/27/2025 00:58	WG2500836
1,1,2,2-Tetrachloroethane	ND		2.93	1	04/27/2025 00:58	WG2500836
1,1,2-Trichlorotrifluoroethane	ND		2.93	1	04/27/2025 00:58	WG2500836
Tetrachloroethene	ND		2.93	1	04/27/2025 00:58	WG2500836
1,2,3-Trichlorobenzene	ND	C3	14.6	1	04/27/2025 00:58	WG2500836
1,2,4-Trichlorobenzene	ND	C3	14.6	1	04/27/2025 00:58	WG2500836
1,1,1-Trichloroethane	ND		2.93	1	04/27/2025 00:58	WG2500836
1,1,2-Trichloroethane	ND		2.93	1	04/27/2025 00:58	WG2500836
Trichloroethene	ND		1.17	1	04/27/2025 00:58	WG2500836
Trichlorofluoromethane	ND		2.93	1	04/27/2025 00:58	WG2500836
1,2,3-Trichloropropane	ND		14.6	1	04/27/2025 00:58	WG2500836
1,2,3-Trimethylbenzene	ND		5.85	1	04/27/2025 00:58	WG2500836
Vinyl chloride	ND	C3	2.93	1	04/27/2025 00:58	WG2500836
(S) Toluene-d8	*99.2*		*75.0-131*		*04/27/2025 00:58*	WG2500836

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*04/27/2025 00:58*	WG2500836
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*04/27/2025 00:58*	WG2500836

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		36.1	1	04/27/2025 03:27	WG2500827
Benzidine	ND	C7	1810	1	04/27/2025 03:27	WG2500827
Benzo(g,h,i)perylene	ND		36.1	1	04/27/2025 03:27	WG2500827
Bis(2-chlorethoxy)methane	ND		361	1	04/27/2025 03:27	WG2500827
Bis(2-chloroethyl)ether	ND		361	1	04/27/2025 03:27	WG2500827
2,2-Oxybis(1-Chloropropane)	ND		361	1	04/27/2025 03:27	WG2500827
4-Bromophenyl-phenylether	ND		361	1	04/27/2025 03:27	WG2500827
2-Chloronaphthalene	ND		36.1	1	04/27/2025 03:27	WG2500827
4-Chlorophenyl-phenylether	ND		361	1	04/27/2025 03:27	WG2500827
1,2-Dichlorobenzene	ND		361	1	04/27/2025 03:27	WG2500827
1,3-Dichlorobenzene	ND		361	1	04/27/2025 03:27	WG2500827
1,4-Dichlorobenzene	ND		361	1	04/27/2025 03:27	WG2500827
3,3-Dichlorobenzidine	ND		361	1	04/27/2025 03:27	WG2500827
2,4-Dinitrotoluene	ND		361	1	04/27/2025 03:27	WG2500827
2,6-Dinitrotoluene	ND		361	1	04/27/2025 03:27	WG2500827
Hexachlorobenzene	ND		361	1	04/27/2025 03:27	WG2500827
Hexachloro-1,3-butadiene	ND		361	1	04/27/2025 03:27	WG2500827
Hexachlorocyclopentadiene	ND		361	1	04/27/2025 03:27	WG2500827
Hexachloroethane	ND		361	1	04/27/2025 03:27	WG2500827
Isophorone	ND		361	1	04/27/2025 03:27	WG2500827
Nitrobenzene	ND		361	1	04/27/2025 03:27	WG2500827
n-Nitrosodimethylamine	ND		361	1	04/27/2025 03:27	WG2500827
n-Nitrosodiphenylamine	ND		361	1	04/27/2025 03:27	WG2500827
n-Nitrosodi-n-propylamine	ND		361	1	04/27/2025 03:27	WG2500827
Phenanthrene	ND		36.1	1	04/27/2025 03:27	WG2500827
Benzylbutyl phthalate	ND		361	1	04/27/2025 03:27	WG2500827
Bis(2-ethylhexyl)phthalate	ND		361	1	04/27/2025 03:27	WG2500827
Di-n-butyl phthalate	ND		361	1	04/27/2025 03:27	WG2500827
Diethyl phthalate	ND		361	1	04/27/2025 03:27	WG2500827
Dimethyl phthalate	ND		361	1	04/27/2025 03:27	WG2500827
Di-n-octyl phthalate	ND		361	1	04/27/2025 03:27	WG2500827
1,2,4-Trichlorobenzene	ND		361	1	04/27/2025 03:27	WG2500827
4-Chloro-3-methylphenol	ND		361	1	04/27/2025 03:27	WG2500827
2-Chlorophenol	ND		361	1	04/27/2025 03:27	WG2500827
2,4-Dichlorophenol	ND		361	1	04/27/2025 03:27	WG2500827
2,4-Dimethylphenol	ND		361	1	04/27/2025 03:27	WG2500827
4,6-Dinitro-2-methylphenol	ND		361	1	04/27/2025 03:27	WG2500827
2,4-Dinitrophenol	ND		361	1	04/27/2025 03:27	WG2500827
2-Nitrophenol	ND		361	1	04/27/2025 03:27	WG2500827
4-Nitrophenol	ND		361	1	04/27/2025 03:27	WG2500827
Pentachlorophenol	ND		361	1	04/27/2025 03:27	WG2500827
Phenol	ND		361	1	04/27/2025 03:27	WG2500827
2,4,6-Trichlorophenol	ND		361	1	04/27/2025 03:27	WG2500827
(S) 2-Fluorophenol	*75.8*		*12.0-120*		*04/27/2025 03:27*	WG2500827
(S) Phenol-d5	*66.7*		*10.0-120*		*04/27/2025 03:27*	WG2500827
(S) Nitrobenzene-d5	*58.2*		*10.0-122*		*04/27/2025 03:27*	WG2500827
(S) 2-Fluorobiphenyl	*69.2*		*15.0-120*		*04/27/2025 03:27*	WG2500827
(S) 2,4,6-Tribromophenol	*91.0*		*10.0-127*		*04/27/2025 03:27*	WG2500827
(S) p-Terphenyl-d14	*69.2*		*10.0-120*		*04/27/2025 03:27*	WG2500827

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	1470000		106000	1	04/27/2025 23:04	WG2500830

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.7		1	04/26/2025 17:45	WG2500849

Wet Chemistry by Method 350.1

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		10600	1	04/28/2025 13:30	WG2501023

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1420000		211000	10	04/27/2025 23:04	WG2501021

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		106000	5	04/27/2025 01:00	WG2500830

Sample Narrative:

L1852144-05 WG2500830: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	14900000		200000	2	04/27/2025 17:12	WG2500894

Metals (ICP) by Method 6010D

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Aluminum	5010000		21100	1	04/27/2025 01:49	WG2500811
Antimony	ND		2110	1	04/27/2025 01:49	WG2500811
Beryllium	515		211	1	04/27/2025 01:49	WG2500811
Calcium	38800000		106000	1	04/27/2025 01:49	WG2500811
Cobalt	4840		1060	1	04/27/2025 01:49	WG2500811
Iron	10600000		10600	1	04/27/2025 01:49	WG2500811
Magnesium	4340000		106000	1	04/27/2025 01:49	WG2500811
Manganese	293000		1060	1	04/27/2025 01:49	WG2500811
Potassium	1240000		106000	1	04/27/2025 01:49	WG2500811
Sodium	185000		106000	1	04/27/2025 01:49	WG2500811
Thallium	ND		2110	1	04/27/2025 01:49	WG2500811
Vanadium	13800		2110	1	04/27/2025 01:49	WG2500811

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	ND	J4	55.6	1	04/27/2025 01:17	WG2500836
Acrylonitrile	ND		13.9	1	04/27/2025 01:17	WG2500836
Bromobenzene	ND		13.9	1	04/27/2025 01:17	WG2500836

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromodichloromethane	ND		2.78	1	04/27/2025 01:17	WG2500836
Bromoform	ND	C3	27.8	1	04/27/2025 01:17	WG2500836
Bromomethane	ND	C3	13.9	1	04/27/2025 01:17	WG2500836
n-Butylbenzene	ND		13.9	1	04/27/2025 01:17	WG2500836
sec-Butylbenzene	ND		13.9	1	04/27/2025 01:17	WG2500836
tert-Butylbenzene	ND		5.56	1	04/27/2025 01:17	WG2500836
Carbon tetrachloride	ND		5.56	1	04/27/2025 01:17	WG2500836
Chlorobenzene	ND		2.78	1	04/27/2025 01:17	WG2500836
Chlorodibromomethane	ND		2.78	1	04/27/2025 01:17	WG2500836
Chloroethane	ND		5.56	1	04/27/2025 01:17	WG2500836
Chloroform	ND		2.78	1	04/27/2025 01:17	WG2500836
Chloromethane	ND		13.9	1	04/27/2025 01:17	WG2500836
2-Chlorotoluene	ND		2.78	1	04/27/2025 01:17	WG2500836
4-Chlorotoluene	ND		5.56	1	04/27/2025 01:17	WG2500836
1,2-Dibromo-3-Chloropropane	ND	C3	27.8	1	04/27/2025 01:17	WG2500836
1,2-Dibromoethane	ND		2.78	1	04/27/2025 01:17	WG2500836
Dibromomethane	ND		5.56	1	04/27/2025 01:17	WG2500836
1,2-Dichlorobenzene	ND		5.56	1	04/27/2025 01:17	WG2500836
1,3-Dichlorobenzene	ND		5.56	1	04/27/2025 01:17	WG2500836
1,4-Dichlorobenzene	ND		5.56	1	04/27/2025 01:17	WG2500836
Dichlorodifluoromethane	ND		5.56	1	04/27/2025 01:17	WG2500836
1,1-Dichloroethane	ND		2.78	1	04/27/2025 01:17	WG2500836
1,2-Dichloroethane	ND		2.78	1	04/27/2025 01:17	WG2500836
1,1-Dichloroethene	ND		2.78	1	04/27/2025 01:17	WG2500836
cis-1,2-Dichloroethene	ND		2.78	1	04/27/2025 01:17	WG2500836
trans-1,2-Dichloroethene	ND		5.56	1	04/27/2025 01:17	WG2500836
1,2-Dichloropropane	ND		5.56	1	04/27/2025 01:17	WG2500836
1,1-Dichloropropene	ND		2.78	1	04/27/2025 01:17	WG2500836
1,3-Dichloropropane	ND		5.56	1	04/27/2025 01:17	WG2500836
cis-1,3-Dichloropropene	ND		2.78	1	04/27/2025 01:17	WG2500836
trans-1,3-Dichloropropene	ND		5.56	1	04/27/2025 01:17	WG2500836
2,2-Dichloropropane	ND		2.78	1	04/27/2025 01:17	WG2500836
Di-isopropyl ether	ND		1.11	1	04/27/2025 01:17	WG2500836
Hexachloro-1,3-butadiene	ND		27.8	1	04/27/2025 01:17	WG2500836
Isopropylbenzene	ND		2.78	1	04/27/2025 01:17	WG2500836
p-Isopropyltoluene	ND		5.56	1	04/27/2025 01:17	WG2500836
2-Butanone (MEK)	ND		111	1	04/27/2025 01:17	WG2500836
Methylene Chloride	ND		27.8	1	04/27/2025 01:17	WG2500836
4-Methyl-2-pentanone (MIBK)	ND		27.8	1	04/27/2025 01:17	WG2500836
Methyl tert-butyl ether	ND		1.11	1	04/27/2025 01:17	WG2500836
n-Propylbenzene	ND		5.56	1	04/27/2025 01:17	WG2500836
Styrene	ND		13.9	1	04/27/2025 01:17	WG2500836
1,1,1,2-Tetrachloroethane	ND		2.78	1	04/27/2025 01:17	WG2500836
1,1,2,2-Tetrachloroethane	ND		2.78	1	04/27/2025 01:17	WG2500836
1,1,2-Trichlorotrifluoroethane	ND		2.78	1	04/27/2025 01:17	WG2500836
Tetrachloroethene	ND		2.78	1	04/27/2025 01:17	WG2500836
1,2,3-Trichlorobenzene	ND	C3	13.9	1	04/27/2025 01:17	WG2500836
1,2,4-Trichlorobenzene	ND	C3	13.9	1	04/27/2025 01:17	WG2500836
1,1,1-Trichloroethane	ND		2.78	1	04/27/2025 01:17	WG2500836
1,1,2-Trichloroethane	ND		2.78	1	04/27/2025 01:17	WG2500836
Trichloroethene	ND		1.11	1	04/27/2025 01:17	WG2500836
Trichlorofluoromethane	ND		2.78	1	04/27/2025 01:17	WG2500836
1,2,3-Trichloropropane	ND		13.9	1	04/27/2025 01:17	WG2500836
1,2,3-Trimethylbenzene	ND		5.56	1	04/27/2025 01:17	WG2500836
Vinyl chloride	ND	C3	2.78	1	04/27/2025 01:17	WG2500836
(S) Toluene-d8	*99.8*		*75.0-131*		*04/27/2025 01:17*	WG2500836

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*95.1*		*67.0-138*		*04/27/2025 01:17*	WG2500836
(S) 1,2-Dichloroethane-d4	*109*		*70.0-130*		*04/27/2025 01:17*	WG2500836

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		35.2	1	04/27/2025 03:48	WG2500827
Benzidine	ND	C7	1760	1	04/27/2025 03:48	WG2500827
Benzo(g,h,i)perylene	ND		35.2	1	04/27/2025 03:48	WG2500827
Bis(2-chlorethoxy)methane	ND		352	1	04/27/2025 03:48	WG2500827
Bis(2-chloroethyl)ether	ND		352	1	04/27/2025 03:48	WG2500827
2,2-Oxybis(1-Chloropropane)	ND		352	1	04/27/2025 03:48	WG2500827
4-Bromophenyl-phenylether	ND		352	1	04/27/2025 03:48	WG2500827
2-Chloronaphthalene	ND		35.2	1	04/27/2025 03:48	WG2500827
4-Chlorophenyl-phenylether	ND		352	1	04/27/2025 03:48	WG2500827
1,2-Dichlorobenzene	ND		352	1	04/27/2025 03:48	WG2500827
1,3-Dichlorobenzene	ND		352	1	04/27/2025 03:48	WG2500827
1,4-Dichlorobenzene	ND		352	1	04/27/2025 03:48	WG2500827
3,3-Dichlorobenzidine	ND		352	1	04/27/2025 03:48	WG2500827
2,4-Dinitrotoluene	ND		352	1	04/27/2025 03:48	WG2500827
2,6-Dinitrotoluene	ND		352	1	04/27/2025 03:48	WG2500827
Hexachlorobenzene	ND		352	1	04/27/2025 03:48	WG2500827
Hexachloro-1,3-butadiene	ND		352	1	04/27/2025 03:48	WG2500827
Hexachlorocyclopentadiene	ND		352	1	04/27/2025 03:48	WG2500827
Hexachloroethane	ND		352	1	04/27/2025 03:48	WG2500827
Isophorone	ND		352	1	04/27/2025 03:48	WG2500827
Nitrobenzene	ND		352	1	04/27/2025 03:48	WG2500827
n-Nitrosodimethylamine	ND		352	1	04/27/2025 03:48	WG2500827
n-Nitrosodiphenylamine	ND		352	1	04/27/2025 03:48	WG2500827
n-Nitrosodi-n-propylamine	ND		352	1	04/27/2025 03:48	WG2500827
Phenanthrene	ND		35.2	1	04/27/2025 03:48	WG2500827
Benzylbutyl phthalate	ND		352	1	04/27/2025 03:48	WG2500827
Bis(2-ethylhexyl)phthalate	ND		352	1	04/27/2025 03:48	WG2500827
Di-n-butyl phthalate	ND		352	1	04/27/2025 03:48	WG2500827
Diethyl phthalate	ND		352	1	04/27/2025 03:48	WG2500827
Dimethyl phthalate	ND		352	1	04/27/2025 03:48	WG2500827
Di-n-octyl phthalate	ND		352	1	04/27/2025 03:48	WG2500827
1,2,4-Trichlorobenzene	ND		352	1	04/27/2025 03:48	WG2500827
4-Chloro-3-methylphenol	ND		352	1	04/27/2025 03:48	WG2500827
2-Chlorophenol	ND		352	1	04/27/2025 03:48	WG2500827
2,4-Dichlorophenol	ND		352	1	04/27/2025 03:48	WG2500827
2,4-Dimethylphenol	ND		352	1	04/27/2025 03:48	WG2500827
4,6-Dinitro-2-methylphenol	ND		352	1	04/27/2025 03:48	WG2500827
2,4-Dinitrophenol	ND		352	1	04/27/2025 03:48	WG2500827
2-Nitrophenol	ND		352	1	04/27/2025 03:48	WG2500827
4-Nitrophenol	ND		352	1	04/27/2025 03:48	WG2500827
Pentachlorophenol	ND		352	1	04/27/2025 03:48	WG2500827
Phenol	ND		352	1	04/27/2025 03:48	WG2500827
2,4,6-Trichlorophenol	ND		352	1	04/27/2025 03:48	WG2500827
(S) 2-Fluorophenol	*80.1*		*12.0-120*		*04/27/2025 03:48*	WG2500827
(S) Phenol-d5	*70.9*		*10.0-120*		*04/27/2025 03:48*	WG2500827
(S) Nitrobenzene-d5	*60.4*		*10.0-122*		*04/27/2025 03:48*	WG2500827
(S) 2-Fluorobiphenyl	*69.9*		*15.0-120*		*04/27/2025 03:48*	WG2500827
(S) 2,4,6-Tribromophenol	*96.7*		*10.0-127*		*04/27/2025 03:48*	WG2500827
(S) p-Terphenyl-d14	*73.7*		*10.0-120*		*04/27/2025 03:48*	WG2500827

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

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	04/26/2025 16:57	WG2500633
Acrolein	ND	J4	50.0	1	04/26/2025 16:57	WG2500633
Acrylonitrile	ND		10.0	1	04/26/2025 16:57	WG2500633
Benzene	ND		1.00	1	04/26/2025 16:57	WG2500633
Bromobenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
Bromodichloromethane	ND		1.00	1	04/26/2025 16:57	WG2500633
Bromoform	ND		1.00	1	04/26/2025 16:57	WG2500633
Bromomethane	ND	C3	5.00	1	04/26/2025 16:57	WG2500633
n-Butylbenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
sec-Butylbenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
tert-Butylbenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
Carbon tetrachloride	ND		1.00	1	04/26/2025 16:57	WG2500633
Chlorobenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
Chlorodibromomethane	ND		1.00	1	04/26/2025 16:57	WG2500633
Chloroethane	ND		5.00	1	04/26/2025 16:57	WG2500633
Chloroform	ND		5.00	1	04/26/2025 16:57	WG2500633
Chloromethane	ND		2.50	1	04/26/2025 16:57	WG2500633
2-Chlorotoluene	ND		1.00	1	04/26/2025 16:57	WG2500633
4-Chlorotoluene	ND		1.00	1	04/26/2025 16:57	WG2500633
1,2-Dibromo-3-Chloropropane	ND		5.00	1	04/26/2025 16:57	WG2500633
1,2-Dibromoethane	ND		1.00	1	04/26/2025 16:57	WG2500633
Dibromomethane	ND		1.00	1	04/26/2025 16:57	WG2500633
1,2-Dichlorobenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
1,3-Dichlorobenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
1,4-Dichlorobenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
Dichlorodifluoromethane	ND		5.00	1	04/26/2025 16:57	WG2500633
1,1-Dichloroethane	ND		1.00	1	04/26/2025 16:57	WG2500633
1,2-Dichloroethane	ND		1.00	1	04/26/2025 16:57	WG2500633
1,1-Dichloroethene	ND		1.00	1	04/26/2025 16:57	WG2500633
cis-1,2-Dichloroethene	ND		1.00	1	04/26/2025 16:57	WG2500633
trans-1,2-Dichloroethene	ND		1.00	1	04/26/2025 16:57	WG2500633
1,2-Dichloropropane	ND		1.00	1	04/26/2025 16:57	WG2500633
1,1-Dichloropropene	ND		1.00	1	04/26/2025 16:57	WG2500633
1,3-Dichloropropane	ND		1.00	1	04/26/2025 16:57	WG2500633
cis-1,3-Dichloropropene	ND		1.00	1	04/26/2025 16:57	WG2500633
trans-1,3-Dichloropropene	ND		1.00	1	04/26/2025 16:57	WG2500633
2,2-Dichloropropane	ND		1.00	1	04/26/2025 16:57	WG2500633
Di-isopropyl ether	ND		1.00	1	04/26/2025 16:57	WG2500633
Ethylbenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
Hexachloro-1,3-butadiene	ND		1.00	1	04/26/2025 16:57	WG2500633
Isopropylbenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
p-Isopropyltoluene	ND		1.00	1	04/26/2025 16:57	WG2500633
2-Butanone (MEK)	ND		10.0	1	04/26/2025 16:57	WG2500633
Methylene Chloride	ND		5.00	1	04/26/2025 16:57	WG2500633
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	04/26/2025 16:57	WG2500633
Methyl tert-butyl ether	ND		1.00	1	04/26/2025 16:57	WG2500633
Naphthalene	ND	C3 J4	5.00	1	04/26/2025 16:57	WG2500633
n-Propylbenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
Styrene	ND		1.00	1	04/26/2025 16:57	WG2500633
1,1,1,2-Tetrachloroethane	ND		1.00	1	04/26/2025 16:57	WG2500633
1,1,2,2-Tetrachloroethane	ND		1.00	1	04/26/2025 16:57	WG2500633
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	04/26/2025 16:57	WG2500633
Tetrachloroethene	ND		1.00	1	04/26/2025 16:57	WG2500633
Toluene	ND		1.00	1	04/26/2025 16:57	WG2500633
1,2,3-Trichlorobenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
1,2,4-Trichlorobenzene	ND	C3	1.00	1	04/26/2025 16:57	WG2500633

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	04/26/2025 16:57	WG2500633
1,1,2-Trichloroethane	ND		1.00	1	04/26/2025 16:57	WG2500633
Trichloroethene	ND		1.00	1	04/26/2025 16:57	WG2500633
Trichlorofluoromethane	ND		5.00	1	04/26/2025 16:57	WG2500633
1,2,3-Trichloropropane	ND		2.50	1	04/26/2025 16:57	WG2500633
1,2,4-Trimethylbenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
1,2,3-Trimethylbenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
1,3,5-Trimethylbenzene	ND		1.00	1	04/26/2025 16:57	WG2500633
Vinyl chloride	ND		1.00	1	04/26/2025 16:57	WG2500633
Xylenes, Total	ND		3.00	1	04/26/2025 16:57	WG2500633
(S) Toluene-d8	*104*		*80.0-120*		*04/26/2025 16:57*	WG2500633
(S) 4-Bromofluorobenzene	*94.2*		*77.0-126*		*04/26/2025 16:57*	WG2500633
(S) 1,2-Dichloroethane-d4	*110*		*70.0-130*		*04/26/2025 16:57*	WG2500633

Method Blank (MB)

(MB) R4205790-1 04/26/25 17:45

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

L1852144-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1852144-01 04/26/25 17:45 • (DUP) R4205790-3 04/26/25 17:45

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.4	92.1	1	0.335		10

Laboratory Control Sample (LCS)

(LCS) R4205790-2 04/26/25 17:45

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

Method Blank (MB)

(MB) R4206499-1 04/28/25 13:01

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

L1852140-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1852140-06 04/28/25 13:15 • (DUP) R4206499-5 04/28/25 13:16

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

L1852144-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1852144-01 04/28/25 13:18 • (DUP) R4206499-6 04/28/25 13:19

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

Laboratory Control Sample (LCS)

(LCS) R4206499-2 04/28/25 13:02

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	250000	273000	109	90.0-110	

L1852140-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852140-02 04/28/25 13:10 • (MS) R4206499-3 04/28/25 13:12 • (MSD) R4206499-4 04/28/25 13:13

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	276000	ND	297000	299000	108	109	1	90.0-110			0.703	20

QUALITY CONTROL SUMMARY

L1852144-01,02,03,04,05

Method Blank (MB)

(MB) R4206033-1 04/27/25 21:29

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

L1852138-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1852138-01 04/27/25 22:37 • (DUP) R4206033-5 04/27/25 22:38

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	970000	931000	5.5	4.05		20

L1852138-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1852138-02 04/27/25 22:39 • (DUP) R4206033-6 04/27/25 22:41

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	1550000	1720000	5.5	10.9		20

Laboratory Control Sample (LCS)

(LCS) R4206033-2 04/27/25 21:30

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	240000	296000	123	81.7-124	

L1852129-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852129-04 04/27/25 22:33 • (MS) R4206033-3 04/27/25 22:34 • (MSD) R4206033-4 04/27/25 22:36

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 %
Kjeldahl Nitrogen, TKN	429000	892000	1180000	1080000	67.4	44.3	5.5	81.7-124	J6	J6	8.75	20

L1852138-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1852138-03 04/27/25 22:42 • (MS) R4206033-7 04/28/25 01:00

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Kjeldahl Nitrogen, TKN	442000	1210000	1340000	29.6	5.5	81.7-124	J6

Method Blank (MB)

(MB) R4205771-1 04/26/25 20:17

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

Laboratory Control Sample (LCS)

(LCS) R4205771-2 04/26/25 20:30

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	40000	38100	95.4	80.0-120	

L1852121-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852121-03 04/26/25 22:13 • (MS) R4205771-3 04/26/25 22:26 • (MSD) R4205771-4 04/26/25 22:39

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	42800	ND	47900	47800	101	101	1	80.0-120			0.247	15

Method Blank (MB)

(MB) R4205903-1 04/27/25 16:57

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

L1852144-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1852144-02 04/27/25 17:06 • (DUP) R4205903-3 04/27/25 17:07

Analyte	Original Result ug/kg	DUP Result ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC By Walkley Black	14400000	14600000	5	1.65		20

L1852154-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1852154-05 04/27/25 17:14 • (DUP) R4205903-6 04/27/25 17:14

Analyte	Original Result ug/kg	DUP Result ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC By Walkley Black	11400000	10700000	5	6.57		20

Laboratory Control Sample (LCS)

(LCS) R4205903-2 04/27/25 16:57

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC By Walkley Black	3230000	4010000	124	75.0-144	

L1852144-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852144-03 04/27/25 17:07 • (MS) R4205903-4 04/27/25 17:10 • (MSD) R4205903-5 04/27/25 17:11

Analyte	Spike Amount ug/kg	Original Result ug/kg	MS Result ug/kg	MSD Result ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC By Walkley Black	20000000	18000000	36400000	35800000	92.2	88.9	5	80.0-120			1.82	20

Method Blank (MB)

(MB) R4205751-2 04/27/25 01:26

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Aluminum	8990	J	6080	20000
Antimony	U		691	2000
Beryllium	U		47.7	200
Calcium	U		19000	100000
Cobalt	U		177	1000
Iron	11500		2240	10000
Magnesium	U		19900	100000
Manganese	U		173	1000
Potassium	U		20900	100000
Sodium	U		41200	100000
Thallium	U		518	2000
Vanadium	U		383	2000

Laboratory Control Sample (LCS)

(LCS) R4205751-3 04/27/25 01:28

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1000000	987000	98.7	80.0-120	
Antimony	100000	97600	97.6	80.0-120	
Beryllium	100000	103000	103	80.0-120	
Calcium	1000000	1030000	103	80.0-120	
Cobalt	100000	97500	97.5	80.0-120	
Iron	1000000	1040000	104	80.0-120	
Magnesium	1000000	956000	95.6	80.0-120	
Manganese	100000	106000	106	80.0-120	
Potassium	1000000	995000	99.5	80.0-120	
Sodium	1000000	1020000	102	80.0-120	
Thallium	100000	102000	102	80.0-120	
Vanadium	100000	101000	101	80.0-120	

L1852144-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852144-03 04/27/25 01:30 • (MS) R4205751-6 04/27/25 01:36 • (MSD) R4205751-7 04/27/25 01:38

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	1110000	4000000	5500000	5080000	135	97.7	1	75.0-125	J5		7.92	20
Antimony	111000	ND	80200	78700	72.5	71.1	1	75.0-125	J6	J6	1.85	20

L1852144-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852144-03 04/27/25 01:30 • (MS) R4205751-6 04/27/25 01:36 • (MSD) R4205751-7 04/27/25 01:38

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 %
Beryllium	111000	449	100000	98800	90.2	88.9	1	75.0-125			1.46	20
Calcium	1110000	4660000	5150000	4920000	43.7	23.5	1	75.0-125	V	V	4.45	20
Cobalt	111000	3330	100000	98900	87.7	86.4	1	75.0-125			1.50	20
Iron	1110000	7210000	7610000	7020000	35.3	0.000	1	75.0-125	V	V	8.06	20
Magnesium	1110000	1690000	2700000	2560000	91.1	78.3	1	75.0-125			5.38	20
Manganese	111000	219000	277000	284000	52.8	58.7	1	75.0-125	J6	J6	2.34	20
Potassium	1110000	1460000	2480000	2360000	92.1	81.0	1	75.0-125			5.06	20
Sodium	1110000	151000	1110000	1090000	86.4	85.1	1	75.0-125			1.28	20
Thallium	111000	ND	97700	96700	88.2	87.4	1	75.0-125			0.994	20
Vanadium	111000	13300	108000	106000	85.9	84.0	1	75.0-125			2.03	20

Method Blank (MB)

(MB) R4205706-3 04/26/25 13:46

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

Method Blank (MB)

(MB) R4205706-3 04/26/25 13:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.3*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

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

(LCS) R4205706-1 04/26/25 12:46 • (LCSD) R4205706-2 04/26/25 13:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	23.6	25.1	94.4	100	19.0-160			6.16	27
Acrolein	25.0	59.0	63.6	236	254	10.0-160	J4	J4	7.50	26
Acrylonitrile	25.0	23.2	24.3	92.8	97.2	55.0-149			4.63	20
Benzene	5.00	4.47	4.57	89.4	91.4	70.0-123			2.21	20

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

(LCS) R4205706-1 04/26/25 12:46 • (LCSD) R4205706-2 04/26/25 13:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromobenzene	5.00	5.06	5.34	101	107	73.0-121			5.38	20
Bromodichloromethane	5.00	4.84	4.87	96.8	97.4	75.0-120			0.618	20
Bromoform	5.00	5.01	4.96	100	99.2	68.0-132			1.00	20
Bromomethane	5.00	1.28	1.49	25.6	29.8	10.0-160			15.2	25
n-Butylbenzene	5.00	5.35	5.35	107	107	73.0-125			0.000	20
sec-Butylbenzene	5.00	5.50	5.51	110	110	75.0-125			0.182	20
tert-Butylbenzene	5.00	5.45	5.59	109	112	76.0-124			2.54	20
Carbon tetrachloride	5.00	5.33	5.33	107	107	68.0-126			0.000	20
Chlorobenzene	5.00	5.23	5.35	105	107	80.0-121			2.27	20
Chlorodibromomethane	5.00	5.21	5.60	104	112	77.0-125			7.22	20
Chloroethane	5.00	4.49	4.73	89.8	94.6	47.0-150			5.21	20
Chloroform	5.00	5.09	5.06	102	101	73.0-120			0.591	20
Chloromethane	5.00	4.99	4.67	99.8	93.4	41.0-142			6.63	20
2-Chlorotoluene	5.00	5.48	5.66	110	113	76.0-123			3.23	20
4-Chlorotoluene	5.00	4.97	5.26	99.4	105	75.0-122			5.67	20
1,2-Dibromo-3-Chloropropane	5.00	4.07	4.29	81.4	85.8	58.0-134			5.26	20
1,2-Dibromoethane	5.00	4.97	5.51	99.4	110	80.0-122			10.3	20
Dibromomethane	5.00	4.81	4.95	96.2	99.0	80.0-120			2.87	20
1,2-Dichlorobenzene	5.00	5.29	5.63	106	113	79.0-121			6.23	20
1,3-Dichlorobenzene	5.00	5.27	5.40	105	108	79.0-120			2.44	20
1,4-Dichlorobenzene	5.00	4.87	5.24	97.4	105	79.0-120			7.32	20
Dichlorodifluoromethane	5.00	7.15	7.08	143	142	51.0-149			0.984	20
1,1-Dichloroethane	5.00	5.03	5.10	101	102	70.0-126			1.38	20
1,2-Dichloroethane	5.00	5.54	5.51	111	110	70.0-128			0.543	20
1,1-Dichloroethene	5.00	5.05	4.86	101	97.2	71.0-124			3.83	20
cis-1,2-Dichloroethene	5.00	4.64	4.66	92.8	93.2	73.0-120			0.430	20
trans-1,2-Dichloroethene	5.00	4.99	4.73	99.8	94.6	73.0-120			5.35	20
1,2-Dichloropropane	5.00	4.73	4.87	94.6	97.4	77.0-125			2.92	20
1,1-Dichloropropene	5.00	5.14	5.16	103	103	74.0-126			0.388	20
1,3-Dichloropropane	5.00	4.98	5.43	99.6	109	80.0-120			8.65	20
cis-1,3-Dichloropropene	5.00	4.35	4.59	87.0	91.8	80.0-123			5.37	20
trans-1,3-Dichloropropene	5.00	5.26	5.16	105	103	78.0-124			1.92	20
2,2-Dichloropropane	5.00	5.19	5.12	104	102	58.0-130			1.36	20
Di-isopropyl ether	5.00	5.13	5.18	103	104	58.0-138			0.970	20
Ethylbenzene	5.00	5.04	5.24	101	105	79.0-123			3.89	20
Hexachloro-1,3-butadiene	5.00	5.86	5.34	117	107	54.0-138			9.29	20
Isopropylbenzene	5.00	5.06	5.15	101	103	76.0-127			1.76	20
p-Isopropyltoluene	5.00	5.40	5.70	108	114	76.0-125			5.41	20
2-Butanone (MEK)	25.0	21.5	23.2	86.0	92.8	44.0-160			7.61	20
Methylene Chloride	5.00	4.69	4.59	93.8	91.8	67.0-120			2.16	20

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

(LCS) R4205706-1 04/26/25 12:46 • (LCSD) R4205706-2 04/26/25 13:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	25.0	27.8	29.8	111	119	68.0-142			6.94	20
Methyl tert-butyl ether	5.00	4.85	4.84	97.0	96.8	68.0-125			0.206	20
Naphthalene	5.00	2.40	2.55	48.0	51.0	54.0-135	J4	J4	6.06	20
n-Propylbenzene	5.00	5.20	5.31	104	106	77.0-124			2.09	20
Styrene	5.00	4.62	4.75	92.4	95.0	73.0-130			2.77	20
1,1,1,2-Tetrachloroethane	5.00	5.01	5.60	100	112	75.0-125			11.1	20
1,1,2,2-Tetrachloroethane	5.00	4.86	5.23	97.2	105	65.0-130			7.33	20
1,1,2-Trichlorotrifluoroethane	5.00	5.75	5.49	115	110	69.0-132			4.63	20
Tetrachloroethene	5.00	5.32	5.32	106	106	72.0-132			0.000	20
Toluene	5.00	5.10	5.23	102	105	79.0-120			2.52	20
1,2,3-Trichlorobenzene	5.00	4.23	4.29	84.6	85.8	50.0-138			1.41	20
1,2,4-Trichlorobenzene	5.00	3.91	3.82	78.2	76.4	57.0-137			2.33	20
1,1,1-Trichloroethane	5.00	5.59	5.35	112	107	73.0-124			4.39	20
1,1,2-Trichloroethane	5.00	5.48	5.51	110	110	80.0-120			0.546	20
Trichloroethene	5.00	4.91	4.90	98.2	98.0	78.0-124			0.204	20
Trichlorofluoromethane	5.00	5.65	5.20	113	104	59.0-147			8.29	20
1,2,3-Trichloropropane	5.00	5.26	5.76	105	115	73.0-130			9.07	20
1,2,4-Trimethylbenzene	5.00	5.11	5.05	102	101	76.0-121			1.18	20
1,2,3-Trimethylbenzene	5.00	5.13	5.32	103	106	77.0-120			3.64	20
1,3,5-Trimethylbenzene	5.00	5.41	5.51	108	110	76.0-122			1.83	20
Vinyl chloride	5.00	5.27	4.90	105	98.0	67.0-131			7.28	20
Xylenes, Total	15.0	15.1	15.7	101	105	79.0-123			3.90	20
(S) Toluene-d8				*104*	*106*	*80.0-120*				
(S) 4-Bromofluorobenzene				*96.8*	*95.3*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*110*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R4205772-2 04/26/25 19:59

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

Method Blank (MB)

(MB) R4205772-2 04/26/25 19:59

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	*98.1*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4205772-1 04/26/25 18:16

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	625	1010	162	10.0-160	J4
Acrylonitrile	625	731	117	45.0-153	
Bromobenzene	125	107	85.6	73.0-121	
Bromodichloromethane	125	113	90.4	73.0-121	
Bromoform	125	97.0	77.6	64.0-132	
Bromomethane	125	97.4	77.9	56.0-147	
n-Butylbenzene	125	110	88.0	68.0-135	
sec-Butylbenzene	125	108	86.4	74.0-130	
tert-Butylbenzene	125	109	87.2	75.0-127	
Carbon tetrachloride	125	120	96.0	66.0-128	
Chlorobenzene	125	103	82.4	76.0-128	
Chlorodibromomethane	125	105	84.0	74.0-127	

Laboratory Control Sample (LCS)

(LCS) R4205772-1 04/26/25 18:16

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloroethane	125	101	80.8	61.0-134	
Chloroform	125	116	92.8	72.0-123	
Chloromethane	125	106	84.8	51.0-138	
2-Chlorotoluene	125	113	90.4	75.0-124	
4-Chlorotoluene	125	101	80.8	75.0-124	
1,2-Dibromo-3-Chloropropane	125	89.5	71.6	59.0-130	
1,2-Dibromoethane	125	109	87.2	74.0-128	
Dibromomethane	125	112	89.6	75.0-122	
1,2-Dichlorobenzene	125	108	86.4	76.0-124	
1,3-Dichlorobenzene	125	109	87.2	76.0-125	
1,4-Dichlorobenzene	125	104	83.2	77.0-121	
Dichlorodifluoromethane	125	116	92.8	43.0-156	
1,1-Dichloroethane	125	117	93.6	70.0-127	
1,2-Dichloroethane	125	123	98.4	65.0-131	
1,1-Dichloroethene	125	118	94.4	65.0-131	
cis-1,2-Dichloroethene	125	104	83.2	73.0-125	
trans-1,2-Dichloroethene	125	107	85.6	71.0-125	
1,2-Dichloropropane	125	121	96.8	74.0-125	
1,1-Dichloropropene	125	113	90.4	73.0-125	
1,3-Dichloropropane	125	108	86.4	80.0-125	
cis-1,3-Dichloropropene	125	113	90.4	76.0-127	
trans-1,3-Dichloropropene	125	107	85.6	73.0-127	
2,2-Dichloropropane	125	126	101	59.0-135	
Di-isopropyl ether	125	124	99.2	60.0-136	
Hexachloro-1,3-butadiene	125	100	80.0	57.0-150	
Isopropylbenzene	125	107	85.6	72.0-127	
p-Isopropyltoluene	125	111	88.8	72.0-133	
2-Butanone (MEK)	625	893	143	30.0-160	
Methylene Chloride	125	105	84.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	625	706	113	56.0-143	
Methyl tert-butyl ether	125	115	92.0	66.0-132	
n-Propylbenzene	125	111	88.8	74.0-126	
Styrene	125	104	83.2	72.0-127	
1,1,1,2-Tetrachloroethane	125	104	83.2	74.0-129	
1,1,2,2-Tetrachloroethane	125	120	96.0	68.0-128	
1,1,2-Trichlorotrifluoroethane	125	113	90.4	61.0-139	
Tetrachloroethene	125	104	83.2	70.0-136	
1,2,3-Trichlorobenzene	125	78.7	63.0	59.0-139	
1,2,4-Trichlorobenzene	125	90.6	72.5	62.0-137	
1,1,1-Trichloroethane	125	122	97.6	69.0-126	

Laboratory Control Sample (LCS)

(LCS) R4205772-1 04/26/25 18:16

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,2-Trichloroethane	125	106	84.8	78.0-123	
Trichloroethene	125	106	84.8	76.0-126	
Trichlorofluoromethane	125	121	96.8	61.0-142	
1,2,3-Trichloropropane	125	120	96.0	67.0-129	
1,2,3-Trimethylbenzene	125	106	84.8	74.0-124	
Vinyl chloride	125	89.4	71.5	63.0-134	
(S) Toluene-d8			*97.0*	*75.0-131*	
(S) 4-Bromofluorobenzene			*100*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*116*	*70.0-130*	

L1852129-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852129-01 04/26/25 20:32 • (MS) R4205772-3 04/27/25 02:52 • (MSD) R4205772-4 04/27/25 03:11

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	696	ND	561	740	80.6	106	1	10.0-160			27.4	40
Acrylonitrile	696	ND	672	876	96.5	126	1	10.0-160			26.3	40
Bromobenzene	139	ND	108	130	77.2	93.6	1	10.0-156			19.2	38
Bromodichloromethane	139	ND	106	136	76.0	97.6	1	10.0-143			24.9	37
Bromoform	139	ND	79.8	107	57.3	77.1	1	10.0-146			29.5	36
Bromomethane	139	ND	110	123	79.0	88.0	1	10.0-149			10.7	38
n-Butylbenzene	139	ND	98.5	127	70.7	91.2	1	10.0-160			25.3	40
sec-Butylbenzene	139	ND	103	135	73.8	96.8	1	10.0-159			26.9	39
tert-Butylbenzene	139	ND	113	137	80.8	98.4	1	10.0-156			19.6	39
Carbon tetrachloride	139	ND	116	147	83.2	106	1	10.0-145			23.7	37
Chlorobenzene	139	ND	101	130	72.5	93.6	1	10.0-152			25.4	39
Chlorodibromomethane	139	ND	93.5	120	67.1	86.4	1	10.0-146			25.1	37
Chloroethane	139	ND	126	105	90.4	75.7	1	10.0-146			17.7	40
Chloroform	139	ND	106	138	75.8	99.2	1	10.0-146			26.7	37
Chloromethane	139	ND	92.9	120	66.7	86.4	1	10.0-159			25.7	37
2-Chlorotoluene	139	ND	114	137	81.6	98.4	1	10.0-159			18.7	38
4-Chlorotoluene	139	ND	102	133	73.6	95.2	1	10.0-155			25.6	39
1,2-Dibromo-3-Chloropropane	139	ND	62.3	66.6	44.7	47.8	1	10.0-151			6.74	39
1,2-Dibromoethane	139	ND	100	131	71.9	94.4	1	10.0-148			27.0	34
Dibromomethane	139	ND	108	136	77.4	97.6	1	10.0-147			23.0	35
1,2-Dichlorobenzene	139	ND	102	134	73.5	96.0	1	10.0-155			26.5	37
1,3-Dichlorobenzene	139	ND	107	136	76.9	97.6	1	10.0-153			23.8	38
1,4-Dichlorobenzene	139	ND	99.0	126	71.1	90.4	1	10.0-151			23.9	38
Dichlorodifluoromethane	139	ND	110	130	79.3	93.6	1	10.0-160			16.6	35

L1852129-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852129-01 04/26/25 20:32 • (MS) R4205772-3 04/27/25 02:52 • (MSD) R4205772-4 04/27/25 03:11

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1-Dichloroethane	139	ND	114	148	81.6	106	1	10.0-147			26.4	37
1,2-Dichloroethane	139	ND	121	149	87.2	107	1	10.0-148			20.6	35
1,1-Dichloroethene	139	ND	118	149	84.8	107	1	10.0-155			23.3	37
cis-1,2-Dichloroethene	139	ND	103	128	74.1	92.0	1	10.0-149			21.6	37
trans-1,2-Dichloroethene	139	ND	102	133	73.3	95.2	1	10.0-150			26.0	37
1,2-Dichloropropane	139	ND	121	152	87.2	109	1	10.0-148			22.0	37
1,1-Dichloropropene	139	ND	110	141	79.3	102	1	10.0-153			24.7	35
1,3-Dichloropropane	139	ND	106	135	76.4	96.8	1	10.0-154			23.6	35
cis-1,3-Dichloropropene	139	ND	105	134	75.4	96.0	1	10.0-151			24.1	37
trans-1,3-Dichloropropene	139	ND	102	130	73.5	93.6	1	10.0-148			24.0	37
2,2-Dichloropropane	139	ND	94.4	123	67.8	88.0	1	10.0-138			26.0	36
Di-isopropyl ether	139	ND	120	147	86.4	106	1	10.0-147			20.0	36
Hexachloro-1,3-butadiene	139	ND	69.1	108	49.6	77.4	1	10.0-160		J3	43.7	40
Isopropylbenzene	139	ND	105	138	75.6	99.2	1	10.0-155			27.0	38
p-Isopropyltoluene	139	ND	105	136	75.7	97.6	1	10.0-160			25.3	40
2-Butanone (MEK)	696	ND	711	886	102	127	1	10.0-160			21.9	40
Methylene Chloride	139	ND	108	136	77.3	97.6	1	10.0-141			23.2	37
4-Methyl-2-pentanone (MIBK)	696	ND	599	756	86.1	109	1	10.0-160			23.2	35
Methyl tert-butyl ether	139	ND	111	139	79.8	100	1	11.0-147			22.5	35
n-Propylbenzene	139	ND	111	136	79.9	97.6	1	10.0-158			19.9	38
Styrene	139	ND	100	131	71.9	94.4	1	10.0-160			27.0	40
1,1,1,2-Tetrachloroethane	139	ND	96.9	125	69.6	89.6	1	10.0-149			25.1	39
1,1,2,2-Tetrachloroethane	139	ND	103	129	73.8	92.8	1	10.0-160			22.9	35
1,1,2-Trichlorotrifluoroethane	139	ND	115	138	82.4	99.2	1	10.0-160			18.5	36
Tetrachloroethene	139	ND	104	129	74.4	92.8	1	10.0-156			22.0	39
1,2,3-Trichlorobenzene	139	ND	44.1	61.5	31.7	44.2	1	10.0-160			32.9	40
1,2,4-Trichlorobenzene	139	ND	58.3	81.9	41.8	58.8	1	10.0-160			33.7	40
1,1,1-Trichloroethane	139	ND	117	147	84.0	106	1	10.0-144			22.8	35
1,1,2-Trichloroethane	139	ND	103	130	74.2	93.6	1	10.0-160			23.2	35
Trichloroethene	139	ND	113	136	80.8	97.6	1	10.0-156			18.8	38
Trichlorofluoromethane	139	ND	153	157	110	113	1	10.0-160			2.88	40
1,2,3-Trichloropropane	139	ND	110	133	79.0	95.2	1	10.0-156			18.5	35
1,2,3-Trimethylbenzene	139	ND	105	134	75.7	96.0	1	10.0-160			23.7	36
Vinyl chloride	139	ND	70.2	97.8	50.4	70.2	1	10.0-160			32.9	37
(S) Toluene-d8					*97.5*	*96.8*		*75.0-131*				
(S) 4-Bromofluorobenzene					*95.6*	*97.0*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*115*	*113*		*70.0-130*				

Method Blank (MB)

(MB) R4205959-2 04/27/25 00:20

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

Method Blank (MB)

(MB) R4205959-2 04/27/25 00:20

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	*82.6*			*12.0-120*
(S) Phenol-d5	*74.0*			*10.0-120*
(S) Nitrobenzene-d5	*61.3*			*10.0-122*
(S) 2-Fluorobiphenyl	*70.3*			*15.0-120*
(S) 2,4,6-Tribromophenol	*82.7*			*10.0-127*
(S) p-Terphenyl-d14	*75.4*			*10.0-120*

Laboratory Control Sample (LCS)

(LCS) R4205959-1 04/26/25 23:59

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthylene	666	641	96.2	40.0-120	
Benzidine	1330	798	60.0	10.0-120	
Benzo(g,h,i)perylene	666	679	102	43.0-120	
Bis(2-chlorethoxy)methane	666	439	65.9	20.0-120	
Bis(2-chloroethyl)ether	666	511	76.7	16.0-120	
2,2-Oxybis(1-Chloropropane)	666	560	84.1	23.0-120	
4-Bromophenyl-phenylether	666	722	108	40.0-120	
2-Chloronaphthalene	666	599	89.9	35.0-120	
4-Chlorophenyl-phenylether	666	734	110	40.0-120	
1,2-Dichlorobenzene	666	529	79.4	32.0-120	
1,3-Dichlorobenzene	666	528	79.3	30.0-120	
1,4-Dichlorobenzene	666	571	85.7	31.0-120	
3,3-Dichlorobenzidine	1330	1430	108	28.0-120	
2,4-Dinitrotoluene	666	703	106	45.0-120	
2,6-Dinitrotoluene	666	695	104	42.0-120	
Hexachlorobenzene	666	662	99.4	39.0-120	
Hexachloro-1,3-butadiene	666	532	79.9	15.0-120	
Hexachlorocyclopentadiene	666	412	61.9	15.0-120	
Hexachloroethane	666	522	78.4	17.0-120	
Isophorone	666	466	70.0	23.0-120	
Nitrobenzene	666	439	65.9	17.0-120	
n-Nitrosodimethylamine	666	606	91.0	10.0-125	
n-Nitrosodiphenylamine	666	645	96.8	40.0-120	
n-Nitrosodi-n-propylamine	666	520	78.1	26.0-120	

Laboratory Control Sample (LCS)

(LCS) R4205959-1 04/26/25 23:59

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phenanthrene	666	620	93.1	42.0-120	
Benzylbutyl phthalate	666	707	106	40.0-120	
Bis(2-ethylhexyl)phthalate	666	639	95.9	41.0-120	
Di-n-butyl phthalate	666	650	97.6	43.0-120	
Diethyl phthalate	666	715	107	43.0-120	
Dimethyl phthalate	666	686	103	43.0-120	
Di-n-octyl phthalate	666	709	106	40.0-120	
1,2,4-Trichlorobenzene	666	504	75.7	17.0-120	
4-Chloro-3-methylphenol	666	553	83.0	28.0-120	
2-Chlorophenol	666	560	84.1	28.0-120	
2,4-Dichlorophenol	666	546	82.0	25.0-120	
2,4-Dimethylphenol	666	485	72.8	15.0-120	
4,6-Dinitro-2-methylphenol	666	756	114	16.0-120	
2,4-Dinitrophenol	666	588	88.3	10.0-120	
2-Nitrophenol	666	548	82.3	20.0-120	
4-Nitrophenol	666	626	94.0	27.0-120	
Pentachlorophenol	666	470	70.6	29.0-120	
Phenol	666	566	85.0	28.0-120	
2,4,6-Trichlorophenol	666	687	103	37.0-120	
(S) 2-Fluorophenol			*105*	*12.0-120*	
(S) Phenol-d5			*93.2*	*10.0-120*	
(S) Nitrobenzene-d5			*63.1*	*10.0-122*	
(S) 2-Fluorobiphenyl			*95.8*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*119*	*10.0-127*	
(S) p-Terphenyl-d14			*95.5*	*10.0-120*	

L1852144-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852144-02 04/27/25 07:19 • (MS) R4205959-3 04/27/25 07:40 • (MSD) R4205959-4 04/27/25 08:01

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthylene	689	ND	510	419	74.0	60.8	2	25.0-120			19.5	32
Benzidine	1380	ND	ND	ND	12.2	22.9	2	10.0-120		J3	60.8	40
Benzo(g,h,i)perylene	689	ND	464	389	67.3	56.5	2	10.0-120			17.5	33
Bis(2-chlorethoxy)methane	689	ND	ND	ND	55.1	45.8	2	10.0-120			18.4	34
Bis(2-chloroethyl)ether	689	ND	ND	ND	61.1	50.5	2	10.0-120			19.1	40
2,2-Oxybis(1-Chloropropane)	689	ND	ND	ND	59.8	47.7	2	10.0-120			22.5	40
4-Bromophenyl-phenylether	689	ND	ND	ND	84.5	70.0	2	27.0-120			18.8	30
2-Chloronaphthalene	689	ND	480	385	69.7	55.9	2	20.0-120			21.9	32

L1852144-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852144-02 04/27/25 07:19 • (MS) R4205959-3 04/27/25 07:40 • (MSD) R4205959-4 04/27/25 08:01

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	689	ND	ND	ND	87.5	70.4	2	24.0-120			21.6	29
1,2-Dichlorobenzene	689	ND	ND	ND	61.6	50.5	2	10.0-120			19.9	38
1,3-Dichlorobenzene	689	ND	ND	ND	61.8	50.6	2	10.0-120			19.8	40
1,4-Dichlorobenzene	689	ND	ND	ND	66.3	52.8	2	10.0-120			22.6	39
3,3-Dichlorobenzidine	1380	ND	842	808	61.2	58.8	2	10.0-120			4.13	34
2,4-Dinitrotoluene	689	ND	ND	ND	87.0	74.1	2	30.0-120			15.9	31
2,6-Dinitrotoluene	689	ND	ND	ND	82.2	66.7	2	25.0-120			20.8	31
Hexachlorobenzene	689	ND	ND	ND	77.2	65.6	2	27.0-120			16.3	28
Hexachloro-1,3-butadiene	689	ND	ND	ND	76.9	62.8	2	10.0-120			20.2	38
Hexachlorocyclopentadiene	689	ND	ND	ND	5.31	2.66	2	10.0-120	J6	J3 J6	66.4	40
Hexachloroethane	689	ND	ND	ND	48.6	38.5	2	10.0-120			23.1	40
Isophorone	689	ND	ND	ND	59.3	50.2	2	13.0-120			16.7	34
Nitrobenzene	689	ND	ND	ND	57.1	47.5	2	10.0-120			18.3	36
n-Nitrosodimethylamine	689	ND	ND	ND	66.9	42.3	2	10.0-127		J3	45.1	40
n-Nitrosodiphenylamine	689	ND	ND	ND	71.1	60.1	2	17.0-120			16.8	29
n-Nitrosodi-n-propylamine	689	ND	ND	ND	56.0	45.8	2	10.0-120			20.1	37
Phenanthrene	689	ND	481	401	69.8	58.2	2	17.0-120			18.1	31
Benzylbutyl phthalate	689	ND	ND	ND	90.1	76.6	2	23.0-120			16.2	30
Bis(2-ethylhexyl)phthalate	689	ND	ND	ND	81.3	70.6	2	17.0-126			14.1	30
Di-n-butyl phthalate	689	ND	ND	ND	90.2	70.7	2	30.0-120			24.2	29
Diethyl phthalate	689	ND	ND	ND	84.2	71.4	2	26.0-120			16.5	28
Dimethyl phthalate	689	ND	ND	ND	81.1	66.1	2	25.0-120			20.4	29
Di-n-octyl phthalate	689	ND	734	ND	107	94.1	2	21.0-123			12.3	29
1,2,4-Trichlorobenzene	689	ND	ND	ND	70.7	56.8	2	12.0-120			21.8	37
4-Chloro-3-methylphenol	689	ND	ND	ND	75.1	63.5	2	15.0-120			16.8	30
2-Chlorophenol	689	ND	ND	ND	66.1	52.6	2	15.0-120			22.7	37
2,4-Dichlorophenol	689	ND	ND	ND	75.7	62.4	2	20.0-120			19.3	31
2,4-Dimethylphenol	689	ND	ND	ND	65.2	54.3	2	10.0-120			18.1	33
4,6-Dinitro-2-methylphenol	689	ND	ND	ND	58.2	54.3	2	10.0-120			6.88	39
2,4-Dinitrophenol	689	ND	ND	ND	52.3	41.6	2	10.0-121			22.7	40
2-Nitrophenol	689	ND	ND	ND	74.1	63.9	2	12.0-120			14.8	39
4-Nitrophenol	689	ND	ND	ND	80.8	64.1	2	10.0-137			23.1	32
Pentachlorophenol	689	ND	ND	ND	79.9	66.6	2	10.0-160			18.2	31
Phenol	689	ND	ND	ND	61.0	50.2	2	12.0-120			19.5	38
2,4,6-Trichlorophenol	689	ND	ND	ND	86.4	70.3	2	19.0-120			20.6	32
(S) 2-Fluorophenol					*75.4*	*61.0*		*12.0-120*				
(S) Phenol-d5					*65.8*	*53.3*		*10.0-120*				
(S) Nitrobenzene-d5					*49.8*	*41.8*		*10.0-122*				
(S) 2-Fluorobiphenyl					*71.5*	*55.7*		*15.0-120*				

L1852144-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852144-02 04/27/25 07:19 • (MS) R4205959-3 04/27/25 07:40 • (MSD) R4205959-4 04/27/25 08:01

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) 2,4,6-Tribromophenol					*96.3*	*80.0*		*10.0-127*				
(S) p-Terphenyl-d14					*68.4*	*60.4*		*10.0-120*				

Sample Narrative:

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

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
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.
C7	The initial calibration verification standard (SSCV) associated with this data responded high.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

L1685144

Scan QR Code for instructions

E101

Company Name: CTEH, LLC	Contact/Report To: Lab Results, Kyle Lawrence, Tami McMullin, Andy Henault, Eric Catlin, Madelyn Klinkerman
Street Address: 5120 North Shore Drive, North Little Rock, AR 72118	Phone #:
	E-Mail: labresults@cteh.com; kylelawrence@cteh.com; tmcmullin@cteh.com; ahenault@cteh.com
	Cc E-Mail: ecatlin@cteh.com; mklinkerman@cteh.com
Customer Project #: PROJ-054017	Invoice to: CTEH
Project Name: Bishop LOC	Invoice E-mail: ctehap@montrose-env.com
Site Collection Info/Facility ID (as applicable): Galeton, CO	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [ ] PT [X] MT [ ] CT [ ] ET	County / State origin of sample(s): CO

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other ASAP

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

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

Specify Container Size **: 8 oz | 8 oz | 8 oz | 8 oz | 6

Identify Container Preservative Type***: 1 | 1 | 1 | 1 | 4

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

**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

Lab Use Only: Proj. Mgr: 546-Jared Starkey; AcctNum / Client ID: CTEHER; Table #:; Profile / Template: T271979; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units	Sample Comment
~~GACO425T05S001~~	SS	G			04/25/25	0815	3			
~~GACO425T05S002~~	SS	G			04/25/25	0845	3			
~~GACO425T05S003~~	SS	G			04/25/25	0905	3			
~~GACO425T05S004~~	SS	G			04/25/25	1015	3			
~~GACO425T05S005~~	SS	G			04/25/25	1035	3			
GACO425T05S006	SS	G			04/25/25	1105	3			01
GACO425T05S007	SS	G			04/25/25	1130	3			02
GACO425T05S008	SS	G			04/25/25	1235	3			03
GACO425T05S009	SS	G			04/25/25	1250	3			04
GACO425T05S010	SS	G			04/25/25	1250	3			05

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

Collected By: Printed Name: Shane Bragg; Signature: Shane Bragg

Customer Remarks / Special Conditions / Possible Hazards:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Shane Bragg / Montrose	4/25/25 1800	[illegible] / Pace	4-26-25 / 1145

Tracking Number: N/A

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitt... ...nd at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

ENV-FRM-CORQ-0019_v02_110123 ©

Sample Receipt Checklist

COC Seal Present/Intact:	Y N NP	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		

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

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

L1852144

E101

Scan QR Code for instructions

Company Name: CTEH, LLC	Contact/Report To: Lab Results, Kyle Lawrence, Tami McMullin, Andy Henault, Eric Catlin, Madelyn Klinkerman
Street Address: 5120 North Shore Drive, North Little Rock, AR 72118	Phone #:
	E-Mail: labresults@cteh.com; kylelawrence@cteh.com; tmcmullin@cteh.com; ahenault@cteh.com
	Cc E-Mail: ecatlin@cteh.com; mklinkerman@cteh.com
Customer Project #: PROJ-054017	Invoice to: CTEH
Project Name: Bishop LOC	Invoice E-mail: ctehap@montrose-env.com
Site Collection Info/Facility ID (as applicable): Galeton, CO	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [ ] PT [X] MT [ ] CT [ ] ET	County / State origin of sample(s): CO
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No
	Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other ASAP Date Results Requested:
	DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

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

Specify Container Size **: 8 oz | 8 oz | 8 oz | 8 oz | 6

Identify Container Preservative Type***: 1 | 1 | 1 | 1 | 4

**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

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units	VOCs 8260D	SVOCs 8270E; Metals 6010D	Total N/TKN/N+N/NH3 EPA 351.2/9056A	TOC Walkley Black	VOCs 8260D	Sample Comment
~~GACo0425T0500002~~	~~OT~~	~~-~~			~~4/25/25~~	~~0730~~	~~2~~			~~-~~	~~-~~	~~-~~	~~-~~	~~X~~	~~NF 4/26/25~~
GACo0425T0500003	OT	-			4/25/25	0730	2			-	-	-	-	X	DLO

Lab Use Only: Proj. Mgr: 546-Jared Starkey; AcctNum / Client ID: CTEHER; Table #:; Profile / Template: T271979; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

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

Collected By: Printed Name: Shane Bragg; Signature: Shane Bragg

Customer Remarks / Special Conditions / Possible Hazards:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Shane Bragg / Montrose / Shane Bragg	4/25/25 1800	[illegible] / Pace	4-26-25 / 1145	N/A
				Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: of

Sample Receipt Checklist

COC Seal Present/Intact: __Y__N__NP
COC Signed/Accurate: __Y__N
Bottles arrive intact: __Y__N
Correct bottles used: __Y__N
Sufficient volume sent: __Y__N
RA Screen <0.5 mR/hr: __Y__N

If Applicable
VOA Zero Headspace: __Y__N
Pres. Correct/Check: __Y__N
Condition: ___NCF ___OK

TLAG 0.6 + 0.4 = 1.0