ANALYTICAL REPORT

June 02, 2025

Pace Analytical Services, LLC
2025.06.02 23:42:34 -05'00'
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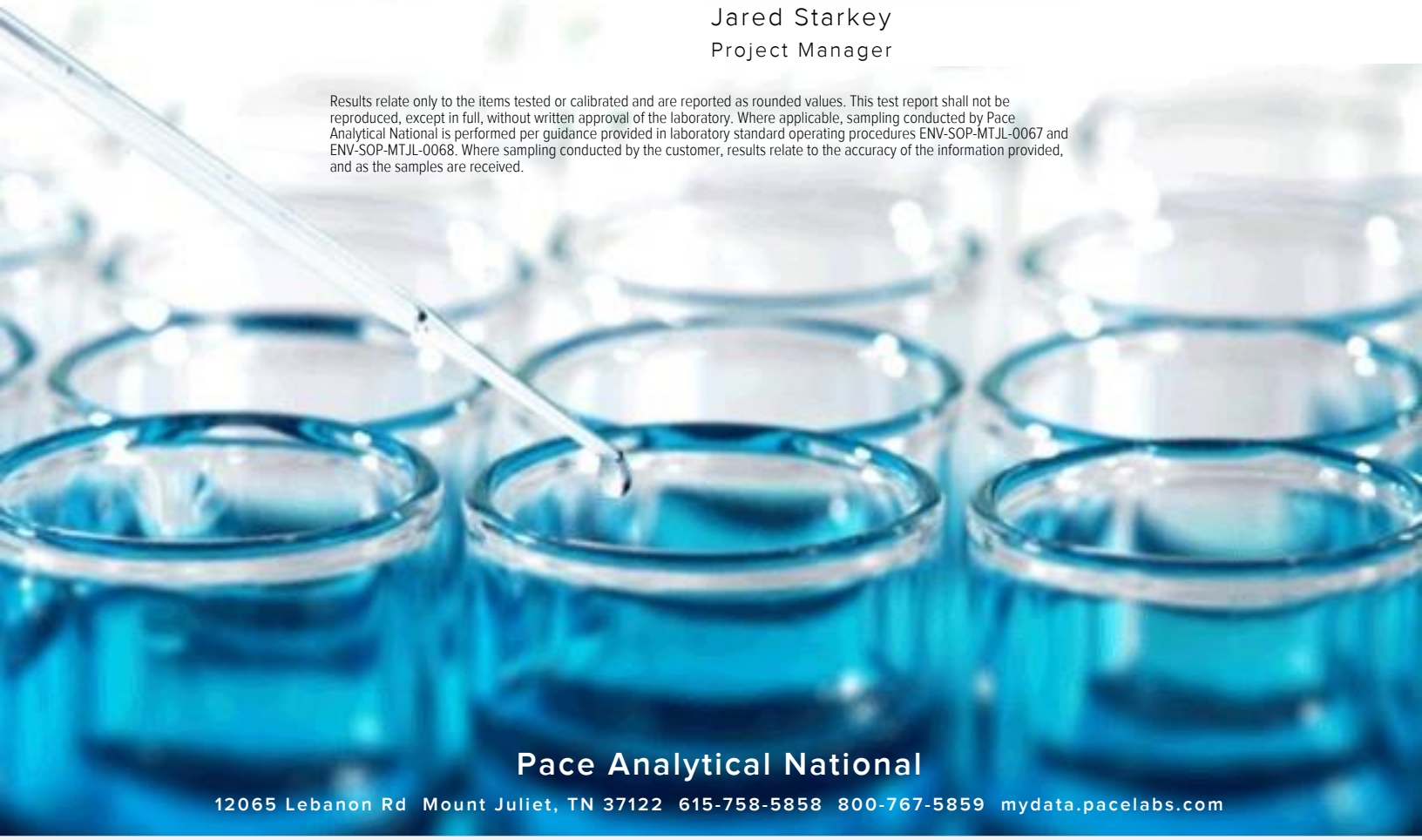
CTEH - ER

Sample Delivery Group:	L1862716
Samples Received:	05/24/2025
Project Number:	PROJ-054017
Description:	Bishop Loss of Containment Incident
Report To:	CTEH
	5120 North Shore Drive
	North Little Rock, AR 72118

Entire Report Reviewed By:

Jared Starkey
Project Manager

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



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

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SAMPLE SUMMARY

GACO0523T175-2S001 L1862716-01

Collected by: Jonathan Aiker
Collected date/time: 05/23/25 10:45
Received date/time: 05/24/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2522932	1	05/25/25 01:17	06/01/25 18:01	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2522728	1	05/24/25 10:37	05/24/25 10:59	KDW	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2523648	1	05/26/25 11:03	05/27/25 03:48	RTW	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2523640	5	05/31/25 08:30	06/01/25 18:01	JDW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2522932	1	05/25/25 01:17	05/26/25 00:52	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2522943	17	05/24/25 15:52	05/28/25 12:26	PAN	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2522951	1	05/24/25 16:11	05/24/25 19:27	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2522776	1	05/24/25 11:28	05/24/25 15:16	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2522918	2	05/24/25 15:40	05/25/25 03:37	LS	Mt. Juliet, TN

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

Jared Starkey
Project Manager

Wet Chemistry by Method 350.1

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

Batch	Lab Sample ID	Analytes
WG2523648	(MS) R4220922-4, (MSD) R4220922-5	Ammonia Nitrogen

Wet Chemistry by Method 4500NOrg D-2021

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

Batch	Lab Sample ID	Analytes
WG2523640	(MS) R4223876-13	Kjeldahl Nitrogen, TKN
WG2523640	(MS) R4223876-7	Kjeldahl Nitrogen, TKN
WG2523640	(MSD) R4223876-9	Kjeldahl Nitrogen, TKN

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

Batch	Lab Sample ID	Analytes
WG2523640	(MS) R4223876-7, (MS) R4223876-13, (MSD) R4223876-9	Kjeldahl Nitrogen, TKN

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

Batch	Lab Sample ID	Analytes
WG2523640	(MSD) R4223876-9	Kjeldahl Nitrogen, TKN

Metals (ICP) by Method 6010D

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

Batch	Lab Sample ID	Analytes
WG2522951	(MS) R4220209-5	Aluminum, Magnesium and Potassium

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

Batch	Lab Sample ID	Analytes
WG2522951	(MS) R4220209-5, (MSD) R4220209-6	Antimony and Calcium

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

Batch	Lab Sample ID	Analytes
WG2522951	(MS) R4220209-5, (MSD) R4220209-6	Iron and Manganese

Metals (ICP) by Method 6010D

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

Batch	Lab Sample ID	Analytes
WG2522951	(MSD) R4220209-6	Aluminum, Iron and Manganese

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
WG2522776	L1862716-01	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Bromoform, Bromomethane, Chloroethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene and Trichlorofluoromethane

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

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

Batch	Lab Sample ID	Analytes
WG2522918	L1862716-01	Hexachlorocyclopentadiene

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

Batch	Lab Sample ID	Analytes
WG2522918	L1862716-01	Hexachlorocyclopentadiene

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

Batch	Lab Sample ID	Analytes
WG2522918	(MS) R4220309-3, (MSD) R4220309-4	2,4-Dinitrophenol, Benzidine and Hexachlorocyclopentadiene

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

Batch	Lab Sample ID	Analytes
WG2522918	(MSD) R4220309-4	Hexachlorocyclopentadiene

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	3050000		22300	1	06/01/2025 18:01	WG2522932

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.6		1	05/24/2025 10:59	WG2522728

Wet Chemistry by Method 350.1

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		11200	1	05/27/2025 03:48	WG2523648

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	3040000		112000	5	06/01/2025 18:01	WG2523640

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		22300	1	05/26/2025 00:52	WG2522932

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	29000000		1700000	17	05/28/2025 12:26	WG2522943

Metals (ICP) by Method 6010D

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Aluminum	7290000		22300	1	05/24/2025 19:27	WG2522951
Antimony	ND		2230	1	05/24/2025 19:27	WG2522951
Beryllium	709		223	1	05/24/2025 19:27	WG2522951
Calcium	9230000		112000	1	05/24/2025 19:27	WG2522951
Chromium	8100		1120	1	05/24/2025 19:27	WG2522951
Cobalt	6000		1120	1	05/24/2025 19:27	WG2522951
Iron	10400000		11200	1	05/24/2025 19:27	WG2522951
Magnesium	3280000		112000	1	05/24/2025 19:27	WG2522951
Manganese	318000		1120	1	05/24/2025 19:27	WG2522951
Potassium	3250000		112000	1	05/24/2025 19:27	WG2522951
Sodium	333000		112000	1	05/24/2025 19:27	WG2522951
Thallium	ND		2230	1	05/24/2025 19:27	WG2522951
Vanadium	18100		2230	1	05/24/2025 19:27	WG2522951

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		61.6	1	05/24/2025 15:16	WG2522776
Acrylonitrile	ND		15.4	1	05/24/2025 15:16	WG2522776
Bromobenzene	ND		15.4	1	05/24/2025 15:16	WG2522776
Bromodichloromethane	ND		3.08	1	05/24/2025 15:16	WG2522776
Bromoform	ND	C3	30.8	1	05/24/2025 15:16	WG2522776

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromomethane	ND	C3	15.4	1	05/24/2025 15:16	WG2522776
n-Butylbenzene	ND		15.4	1	05/24/2025 15:16	WG2522776
sec-Butylbenzene	ND		15.4	1	05/24/2025 15:16	WG2522776
tert-Butylbenzene	ND		6.16	1	05/24/2025 15:16	WG2522776
Carbon tetrachloride	ND		6.16	1	05/24/2025 15:16	WG2522776
Chlorobenzene	ND		3.08	1	05/24/2025 15:16	WG2522776
Chlorodibromomethane	ND		3.08	1	05/24/2025 15:16	WG2522776
Chloroethane	ND	C3	6.16	1	05/24/2025 15:16	WG2522776
Chloroform	ND		3.08	1	05/24/2025 15:16	WG2522776
Chloromethane	ND		15.4	1	05/24/2025 15:16	WG2522776
2-Chlorotoluene	ND		3.08	1	05/24/2025 15:16	WG2522776
4-Chlorotoluene	ND		6.16	1	05/24/2025 15:16	WG2522776
1,2-Dibromo-3-Chloropropane	ND		30.8	1	05/24/2025 15:16	WG2522776
1,2-Dibromoethane	ND		3.08	1	05/24/2025 15:16	WG2522776
Dibromomethane	ND		6.16	1	05/24/2025 15:16	WG2522776
1,2-Dichlorobenzene	ND		6.16	1	05/24/2025 15:16	WG2522776
1,3-Dichlorobenzene	ND		6.16	1	05/24/2025 15:16	WG2522776
1,4-Dichlorobenzene	ND		6.16	1	05/24/2025 15:16	WG2522776
Dichlorodifluoromethane	ND	C3	6.16	1	05/24/2025 15:16	WG2522776
1,1-Dichloroethane	ND		3.08	1	05/24/2025 15:16	WG2522776
1,2-Dichloroethane	ND		3.08	1	05/24/2025 15:16	WG2522776
1,1-Dichloroethene	ND		3.08	1	05/24/2025 15:16	WG2522776
cis-1,2-Dichloroethene	ND		3.08	1	05/24/2025 15:16	WG2522776
trans-1,2-Dichloroethene	ND		6.16	1	05/24/2025 15:16	WG2522776
1,2-Dichloropropane	ND		6.16	1	05/24/2025 15:16	WG2522776
1,1-Dichloropropene	ND		3.08	1	05/24/2025 15:16	WG2522776
1,3-Dichloropropane	ND		6.16	1	05/24/2025 15:16	WG2522776
cis-1,3-Dichloropropene	ND		3.08	1	05/24/2025 15:16	WG2522776
trans-1,3-Dichloropropene	ND		6.16	1	05/24/2025 15:16	WG2522776
2,2-Dichloropropane	ND		3.08	1	05/24/2025 15:16	WG2522776
Di-isopropyl ether	ND		1.23	1	05/24/2025 15:16	WG2522776
Hexachloro-1,3-butadiene	ND	C3	30.8	1	05/24/2025 15:16	WG2522776
Isopropylbenzene	ND		3.08	1	05/24/2025 15:16	WG2522776
p-Isopropyltoluene	ND		6.16	1	05/24/2025 15:16	WG2522776
2-Butanone (MEK)	ND		123	1	05/24/2025 15:16	WG2522776
Methylene Chloride	ND		30.8	1	05/24/2025 15:16	WG2522776
4-Methyl-2-pentanone (MIBK)	ND		30.8	1	05/24/2025 15:16	WG2522776
Methyl tert-butyl ether	ND		1.23	1	05/24/2025 15:16	WG2522776
n-Propylbenzene	ND		6.16	1	05/24/2025 15:16	WG2522776
Styrene	ND		15.4	1	05/24/2025 15:16	WG2522776
1,1,1,2-Tetrachloroethane	ND		3.08	1	05/24/2025 15:16	WG2522776
1,1,2,2-Tetrachloroethane	ND		3.08	1	05/24/2025 15:16	WG2522776
1,1,2-Trichlorotrifluoroethane	ND		3.08	1	05/24/2025 15:16	WG2522776
Tetrachloroethene	ND		3.08	1	05/24/2025 15:16	WG2522776
1,2,3-Trichlorobenzene	ND	C3	15.4	1	05/24/2025 15:16	WG2522776
1,2,4-Trichlorobenzene	ND	C3	15.4	1	05/24/2025 15:16	WG2522776
1,1,1-Trichloroethane	ND		3.08	1	05/24/2025 15:16	WG2522776
1,1,2-Trichloroethane	ND		3.08	1	05/24/2025 15:16	WG2522776
Trichloroethene	ND		1.23	1	05/24/2025 15:16	WG2522776
Trichlorofluoromethane	ND	C3	3.08	1	05/24/2025 15:16	WG2522776
1,2,3-Trichloropropane	ND		15.4	1	05/24/2025 15:16	WG2522776
1,2,3-Trimethylbenzene	ND		6.16	1	05/24/2025 15:16	WG2522776
Vinyl chloride	ND		3.08	1	05/24/2025 15:16	WG2522776
(S) Toluene-d8	*95.8*		*75.0-131*		*05/24/2025 15:16*	WG2522776
(S) 4-Bromofluorobenzene	*96.1*		*67.0-138*		*05/24/2025 15:16*	WG2522776
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*05/24/2025 15:16*	WG2522776

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		74.3	2	05/25/2025 03:37	WG2522918
Benzidine	ND		3730	2	05/25/2025 03:37	WG2522918
Benzo(g,h,i)perylene	ND		74.3	2	05/25/2025 03:37	WG2522918
Bis(2-chlorethoxy)methane	ND		743	2	05/25/2025 03:37	WG2522918
Bis(2-chloroethyl)ether	ND		743	2	05/25/2025 03:37	WG2522918
2,2-Oxybis(1-Chloropropane)	ND		743	2	05/25/2025 03:37	WG2522918
4-Bromophenyl-phenylether	ND		743	2	05/25/2025 03:37	WG2522918
2-Chloronaphthalene	ND		74.3	2	05/25/2025 03:37	WG2522918
4-Chlorophenyl-phenylether	ND		743	2	05/25/2025 03:37	WG2522918
1,2-Dichlorobenzene	ND		743	2	05/25/2025 03:37	WG2522918
1,3-Dichlorobenzene	ND		743	2	05/25/2025 03:37	WG2522918
1,4-Dichlorobenzene	ND		743	2	05/25/2025 03:37	WG2522918
3,3-Dichlorobenzidine	ND		743	2	05/25/2025 03:37	WG2522918
2,4-Dinitrotoluene	ND		743	2	05/25/2025 03:37	WG2522918
2,6-Dinitrotoluene	ND		743	2	05/25/2025 03:37	WG2522918
Hexachlorobenzene	ND		743	2	05/25/2025 03:37	WG2522918
Hexachloro-1,3-butadiene	ND		743	2	05/25/2025 03:37	WG2522918
Hexachlorocyclopentadiene	ND	C3 C7	743	2	05/25/2025 03:37	WG2522918
Hexachloroethane	ND		743	2	05/25/2025 03:37	WG2522918
Isophorone	ND		743	2	05/25/2025 03:37	WG2522918
Nitrobenzene	ND		743	2	05/25/2025 03:37	WG2522918
n-Nitrosodimethylamine	ND		743	2	05/25/2025 03:37	WG2522918
n-Nitrosodiphenylamine	ND		743	2	05/25/2025 03:37	WG2522918
n-Nitrosodi-n-propylamine	ND		743	2	05/25/2025 03:37	WG2522918
Phenanthrene	ND		74.3	2	05/25/2025 03:37	WG2522918
Benzylbutyl phthalate	ND		743	2	05/25/2025 03:37	WG2522918
Bis(2-ethylhexyl)phthalate	ND		743	2	05/25/2025 03:37	WG2522918
Di-n-butyl phthalate	ND		743	2	05/25/2025 03:37	WG2522918
Diethyl phthalate	ND		743	2	05/25/2025 03:37	WG2522918
Dimethyl phthalate	ND		743	2	05/25/2025 03:37	WG2522918
Di-n-octyl phthalate	ND		743	2	05/25/2025 03:37	WG2522918
1,2,4-Trichlorobenzene	ND		743	2	05/25/2025 03:37	WG2522918
4-Chloro-3-methylphenol	ND		743	2	05/25/2025 03:37	WG2522918
2-Chlorophenol	ND		743	2	05/25/2025 03:37	WG2522918
2,4-Dichlorophenol	ND		743	2	05/25/2025 03:37	WG2522918
2,4-Dimethylphenol	ND		743	2	05/25/2025 03:37	WG2522918
4,6-Dinitro-2-methylphenol	ND		743	2	05/25/2025 03:37	WG2522918
2,4-Dinitrophenol	ND		743	2	05/25/2025 03:37	WG2522918
2-Nitrophenol	ND		743	2	05/25/2025 03:37	WG2522918
4-Nitrophenol	ND		743	2	05/25/2025 03:37	WG2522918
Pentachlorophenol	ND		743	2	05/25/2025 03:37	WG2522918
Phenol	ND		743	2	05/25/2025 03:37	WG2522918
2,4,6-Trichlorophenol	ND		743	2	05/25/2025 03:37	WG2522918
(S) 2-Fluorophenol	*78.6*		*12.0-120*		*05/25/2025 03:37*	WG2522918
(S) Phenol-d5	*71.7*		*10.0-120*		*05/25/2025 03:37*	WG2522918
(S) Nitrobenzene-d5	*80.7*		*10.0-122*		*05/25/2025 03:37*	WG2522918
(S) 2-Fluorobiphenyl	*63.9*		*15.0-120*		*05/25/2025 03:37*	WG2522918
(S) 2,4,6-Tribromophenol	*70.6*		*10.0-127*		*05/25/2025 03:37*	WG2522918
(S) p-Terphenyl-d14	*64.5*		*10.0-120*		*05/25/2025 03:37*	WG2522918

Sample Narrative:

L1862716-01 WG2522918: Dilution due to matrix impact during extract concentration procedure

Method Blank (MB)

(MB) R4220246-1 05/24/25 10:59

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

L1862710-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1862710-13 05/24/25 10:59 • (DUP) R4220246-3 05/24/25 10:59

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.8	89.9	1	0.176		10

Laboratory Control Sample (LCS)

(LCS) R4220246-2 05/24/25 10:59

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) R4220922-1 05/27/25 03:03

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

L1862702-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1862702-01 05/27/25 03:06 • (DUP) R4220922-3 05/27/25 03:07

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

L1862702-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1862702-18 05/27/25 03:36 • (DUP) R4220922-6 05/27/25 03:42

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) R4220922-2 05/27/25 03:04

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	250000	255000	102	90.0-110	

L1862702-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862702-08 05/27/25 03:16 • (MS) R4220922-4 05/27/25 03:22 • (MSD) R4220922-5 05/27/25 03:24

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	262000	ND	312000	316000	119	120	1	90.0-110	J5	J5	1.04	20

Method Blank (MB)

(MB) R4223876-1 06/01/25 17:43

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Kjeldahl Nitrogen, TKN	17000	J	15200	20000

L1862710-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1862710-06 06/01/25 17:50 • (DUP) R4223876-5 06/01/25 17:51

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	1220000	1290000	5	5.75		20

L1862724-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1862724-01 06/01/25 18:07 • (DUP) R4223876-11 06/01/25 18:09

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	916000	765000	5	18.0		20

Laboratory Control Sample (LCS)

(LCS) R4223876-3 06/01/25 17:44

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	466000	476000	102	81.7-124	

L1862710-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862710-12 06/01/25 17:54 • (MS) R4223876-7 06/01/25 17:55 • (MSD) R4223876-9 06/01/25 17:56

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	439000	1260000	1560000	1230000	67.6	0.000	1	81.7-124	E J6	E J3 J6	23.4	20

L1862734-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1862734-01 06/01/25 18:14 • (MS) R4223876-13 06/01/25 18:15

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	428000	629000	968000	79.2	1	81.7-124	E J6

Method Blank (MB)

(MB) R4220588-1 05/25/25 21:00

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) R4220588-2 05/25/25 21:14

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	40000	40300	101	80.0-120	

L1862702-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862702-08 05/25/25 21:27 • (MS) R4220588-3 05/25/25 21:41 • (MSD) R4220588-4 05/25/25 21:54

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	41900	ND	47200	47900	99.9	101	1.04	80.0-120			1.43	15

Method Blank (MB)

(MB) R4221670-1 05/28/25 12:20

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

L1862701-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1862701-01 05/28/25 12:21 • (DUP) R4221670-3 05/28/25 12:21

Analyte	Original Result ug/kg	DUP Result ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC By Walkley Black	8330000	7740000	9	7.24		20

L1862718-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1862718-01 05/28/25 12:26 • (DUP) R4221670-6 05/28/25 12:26

Analyte	Original Result ug/kg	DUP Result ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC By Walkley Black	27500000	26900000	5	2.24		20

Laboratory Control Sample (LCS)

(LCS) R4221670-2 05/28/25 12:20

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC By Walkley Black	3230000	4100000	127	75.0-144	

L1862701-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862701-14 05/28/25 12:24 • (MS) R4221670-4 05/28/25 12:24 • (MSD) R4221670-5 05/28/25 12:24

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	21100000	43500000	42600000	112	107	5	80.0-120			2.20	20

Method Blank (MB)

(MB) R4220209-1 05/24/25 18:52

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Aluminum	6500	J	6080	20000
Antimony	U		691	2000
Beryllium	U		47.7	200
Calcium	U		19000	100000
Chromium	U		214	1000
Cobalt	U		177	1000
Iron	9760	J	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) R4220209-2 05/24/25 18:54

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1000000	1030000	103	80.0-120	
Antimony	100000	102000	102	80.0-120	
Beryllium	100000	102000	102	80.0-120	
Calcium	1000000	1030000	103	80.0-120	
Chromium	100000	96000	96.0	80.0-120	
Cobalt	100000	96000	96.0	80.0-120	
Iron	1000000	1010000	101	80.0-120	
Magnesium	1000000	990000	99.0	80.0-120	
Manganese	100000	102000	102	80.0-120	
Potassium	1000000	1040000	104	80.0-120	
Sodium	1000000	1030000	103	80.0-120	
Thallium	100000	99600	99.6	80.0-120	
Vanadium	100000	101000	101	80.0-120	

L1862702-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862702-08 05/24/25 18:55 • (MS) R4220209-5 05/24/25 19:00 • (MSD) R4220209-6 05/24/25 19:02

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1050000	3600000	7090000	4800000	333	115	1	75.0-125	J5	J3	38.5	20
Antimony	105000	ND	75200	81000	71.8	77.3	1	75.0-125	J6		7.44	20
Beryllium	105000	563	94800	96600	89.9	91.6	1	75.0-125			1.87	20
Calcium	1050000	3370000	3910000	3730000	51.6	33.8	1	75.0-125	J6	J6	4.90	20
Chromium	105000	4230	103000	101000	94.5	92.4	1	75.0-125			2.12	20
Cobalt	105000	4160	99800	99400	91.2	90.9	1	75.0-125			0.360	20
Iron	1050000	13300000	16600000	8900000	308	0.000	1	75.0-125	V	J3 V	60.2	20
Magnesium	1050000	1650000	3000000	2520000	128	82.6	1	75.0-125	J5		17.4	20
Manganese	105000	530000	554000	381000	22.6	0.000	1	75.0-125	V	J3 V	37.0	20
Potassium	1050000	1860000	3360000	2790000	143	88.5	1	75.0-125	J5		18.6	20
Sodium	1050000	ND	1010000	1010000	96.0	96.6	1	75.0-125			0.628	20
Thallium	105000	ND	95200	95300	90.8	90.9	1	75.0-125			0.160	20
Vanadium	105000	14900	111000	105000	91.7	85.5	1	75.0-125			6.07	20

Method Blank (MB)

(MB) R4220295-2 05/24/25 09:48

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) R4220295-2 05/24/25 09:48

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	*96.0*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4220295-1 05/24/25 08:32

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	625	866	139	10.0-160	
Acrylonitrile	625	613	98.1	45.0-153	
Bromobenzene	125	123	98.4	73.0-121	
Bromodichloromethane	125	127	102	73.0-121	
Bromoform	125	98.2	78.6	64.0-132	
Bromomethane	125	98.7	79.0	56.0-147	
n-Butylbenzene	125	129	103	68.0-135	
sec-Butylbenzene	125	125	100	74.0-130	
tert-Butylbenzene	125	123	98.4	75.0-127	
Carbon tetrachloride	125	119	95.2	66.0-128	
Chlorobenzene	125	109	87.2	76.0-128	
Chlorodibromomethane	125	112	89.6	74.0-127	

Laboratory Control Sample (LCS)

(LCS) R4220295-1 05/24/25 08:32

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloroethane	125	97.6	78.1	61.0-134	
Chloroform	125	132	106	72.0-123	
Chloromethane	125	100	80.0	51.0-138	
2-Chlorotoluene	125	130	104	75.0-124	
4-Chlorotoluene	125	139	111	75.0-124	
1,2-Dibromo-3-Chloropropane	125	99.9	79.9	59.0-130	
1,2-Dibromoethane	125	114	91.2	74.0-128	
Dibromomethane	125	134	107	75.0-122	
1,2-Dichlorobenzene	125	121	96.8	76.0-124	
1,3-Dichlorobenzene	125	124	99.2	76.0-125	
1,4-Dichlorobenzene	125	122	97.6	77.0-121	
Dichlorodifluoromethane	125	89.4	71.5	43.0-156	
1,1-Dichloroethane	125	144	115	70.0-127	
1,2-Dichloroethane	125	138	110	65.0-131	
1,1-Dichloroethene	125	109	87.2	65.0-131	
cis-1,2-Dichloroethene	125	130	104	73.0-125	
trans-1,2-Dichloroethene	125	111	88.8	71.0-125	
1,2-Dichloropropane	125	138	110	74.0-125	
1,1-Dichloropropene	125	132	106	73.0-125	
1,3-Dichloropropane	125	130	104	80.0-125	
cis-1,3-Dichloropropene	125	123	98.4	76.0-127	
trans-1,3-Dichloropropene	125	122	97.6	73.0-127	
2,2-Dichloropropane	125	140	112	59.0-135	
Di-isopropyl ether	125	142	114	60.0-136	
Hexachloro-1,3-butadiene	125	96.9	77.5	57.0-150	
Isopropylbenzene	125	110	88.0	72.0-127	
p-Isopropyltoluene	125	121	96.8	72.0-133	
2-Butanone (MEK)	625	690	110	30.0-160	
Methylene Chloride	125	129	103	68.0-123	
4-Methyl-2-pentanone (MIBK)	625	664	106	56.0-143	
Methyl tert-butyl ether	125	154	123	66.0-132	
n-Propylbenzene	125	133	106	74.0-126	
Styrene	125	103	82.4	72.0-127	
1,1,1,2-Tetrachloroethane	125	110	88.0	74.0-129	
1,1,2,2-Tetrachloroethane	125	141	113	68.0-128	
1,1,2-Trichlorotrifluoroethane	125	101	80.8	61.0-139	
Tetrachloroethene	125	99.9	79.9	70.0-136	
1,2,3-Trichlorobenzene	125	90.6	72.5	59.0-139	
1,2,4-Trichlorobenzene	125	95.4	76.3	62.0-137	
1,1,1-Trichloroethane	125	126	101	69.0-126	

Laboratory Control Sample (LCS)

(LCS) R4220295-1 05/24/25 08:32

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,2-Trichloroethane	125	123	98.4	78.0-123	
Trichloroethene	125	121	96.8	76.0-126	
Trichlorofluoromethane	125	98.2	78.6	61.0-142	
1,2,3-Trichloropropane	125	138	110	67.0-129	
1,2,3-Trimethylbenzene	125	126	101	74.0-124	
Vinyl chloride	125	108	86.4	63.0-134	
(S) Toluene-d8			*94.3*	*75.0-131*	
(S) 4-Bromofluorobenzene			*95.6*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*117*	*70.0-130*	

L1862702-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862702-08 05/24/25 11:47 • (MS) R4220295-3 05/24/25 18:08 • (MSD) R4220295-4 05/24/25 18:27

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	680	ND	529	486	77.7	71.5	1	10.0-160			8.43	40
Acrylonitrile	680	ND	718	614	106	90.3	1	10.0-160			15.6	40
Bromobenzene	136	ND	142	113	104	83.1	1	10.0-156			22.4	38
Bromodichloromethane	136	ND	144	116	106	85.5	1	10.0-143			21.1	37
Bromoform	136	ND	105	87.8	77.2	64.5	1	10.0-146			17.9	36
Bromomethane	136	ND	82.2	63.7	60.4	46.9	1	10.0-149			25.3	38
n-Butylbenzene	136	ND	158	129	116	95.2	1	10.0-160			19.8	40
sec-Butylbenzene	136	ND	156	126	115	92.7	1	10.0-159			21.0	39
tert-Butylbenzene	136	ND	155	125	114	91.9	1	10.0-156			21.2	39
Carbon tetrachloride	136	ND	146	116	107	85.5	1	10.0-145			22.6	37
Chlorobenzene	136	ND	132	105	96.8	76.9	1	10.0-152			22.8	39
Chlorodibromomethane	136	ND	124	101	91.1	74.6	1	10.0-146			20.0	37
Chloroethane	136	ND	69.5	55.0	51.1	40.4	1	10.0-146			23.4	40
Chloroform	136	ND	150	126	110	92.7	1	10.0-146			17.5	37
Chloromethane	136	ND	143	120	105	87.9	1	10.0-159			17.6	37
2-Chlorotoluene	136	ND	151	120	111	87.9	1	10.0-159			23.5	38
4-Chlorotoluene	136	ND	156	128	115	94.4	1	10.0-155			19.3	39
1,2-Dibromo-3-Chloropropane	136	ND	107	87.6	79.0	64.4	1	10.0-151			20.2	39
1,2-Dibromoethane	136	ND	128	103	94.4	75.4	1	10.0-148			22.3	34
Dibromomethane	136	ND	143	118	105	87.1	1	10.0-147			18.5	35
1,2-Dichlorobenzene	136	ND	146	116	107	85.5	1	10.0-155			22.6	37
1,3-Dichlorobenzene	136	ND	146	120	107	87.9	1	10.0-153			19.8	38
1,4-Dichlorobenzene	136	ND	148	120	109	87.9	1	10.0-151			21.3	38
Dichlorodifluoromethane	136	ND	142	112	104	82.3	1	10.0-160			23.4	35

L1862702-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862702-08 05/24/25 11:47 • (MS) R4220295-3 05/24/25 18:08 • (MSD) R4220295-4 05/24/25 18:27

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1-Dichloroethane	136	ND	174	140	128	103	1	10.0-147			21.6	37
1,2-Dichloroethane	136	ND	118	115	87.1	84.7	1	10.0-148			2.82	35
1,1-Dichloroethene	136	ND	143	116	105	85.5	1	10.0-155			20.3	37
cis-1,2-Dichloroethene	136	ND	160	128	118	94.4	1	10.0-149			22.1	37
trans-1,2-Dichloroethene	136	ND	144	116	106	85.5	1	10.0-150			21.1	37
1,2-Dichloropropane	136	ND	161	129	119	95.2	1	10.0-148			21.9	37
1,1-Dichloropropene	136	ND	168	134	123	98.4	1	10.0-153			22.5	35
1,3-Dichloropropane	136	ND	147	118	108	87.1	1	10.0-154			21.5	35
cis-1,3-Dichloropropene	136	ND	140	112	103	82.3	1	10.0-151			22.6	37
trans-1,3-Dichloropropene	136	ND	143	112	105	82.3	1	10.0-148			24.1	37
2,2-Dichloropropane	136	ND	135	106	99.2	77.6	1	10.0-138			24.5	36
Di-isopropyl ether	136	ND	155	128	114	94.4	1	10.0-147			18.6	36
Hexachloro-1,3-butadiene	136	ND	120	104	87.9	76.6	1	10.0-160			13.7	40
Isopropylbenzene	136	ND	136	110	100	80.6	1	10.0-155			21.5	38
p-Isopropyltoluene	136	ND	150	122	110	89.5	1	10.0-160			21.0	40
2-Butanone (MEK)	680	ND	384	545	56.5	80.2	1	10.0-160			34.7	40
Methylene Chloride	136	ND	148	123	109	90.3	1	10.0-141			18.6	37
4-Methyl-2-pentanone (MIBK)	680	ND	629	527	92.4	77.4	1	10.0-160			17.7	35
Methyl tert-butyl ether	136	ND	144	126	106	92.7	1	11.0-147			13.0	35
n-Propylbenzene	136	ND	161	129	119	95.2	1	10.0-158			21.9	38
Styrene	136	ND	123	98.1	90.3	72.1	1	10.0-160			22.4	40
1,1,1,2-Tetrachloroethane	136	ND	128	101	94.4	74.3	1	10.0-149			23.8	39
1,1,2,2-Tetrachloroethane	136	ND	143	116	105	85.5	1	10.0-160			20.3	35
1,1,2-Trichlorotrifluoroethane	136	ND	131	108	96.0	79.8	1	10.0-160			18.4	36
Tetrachloroethene	136	ND	132	109	96.8	80.3	1	10.0-156			18.6	39
1,2,3-Trichlorobenzene	136	ND	126	109	92.7	80.2	1	10.0-160			14.6	40
1,2,4-Trichlorobenzene	136	ND	128	109	94.4	80.5	1	10.0-160			15.9	40
1,1,1-Trichloroethane	136	ND	156	126	115	92.7	1	10.0-144			21.0	35
1,1,2-Trichloroethane	136	ND	136	113	100	83.1	1	10.0-160			18.5	35
Trichloroethene	136	ND	154	124	113	91.1	1	10.0-156			21.3	38
Trichlorofluoromethane	136	ND	72.4	60.9	53.2	44.8	1	10.0-160			17.3	40
1,2,3-Trichloropropane	136	ND	144	118	106	87.1	1	10.0-156			19.2	35
1,2,3-Trimethylbenzene	136	ND	147	120	108	87.9	1	10.0-160			20.6	36
Vinyl chloride	136	ND	122	93.8	89.5	69.0	1	10.0-160			26.0	37
(S) Toluene-d8					*94.8*	*94.9*		*75.0-131*				
(S) 4-Bromofluorobenzene					*97.6*	*96.5*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*107*	*106*		*70.0-130*				

Method Blank (MB)

(MB) R4220309-2 05/24/25 20:28

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) R4220309-2 05/24/25 20:28

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	*86.6*			*12.0-120*
(S) Phenol-d5	*83.9*			*10.0-120*
(S) Nitrobenzene-d5	*86.8*			*10.0-122*
(S) 2-Fluorobiphenyl	*76.3*			*15.0-120*
(S) 2,4,6-Tribromophenol	*77.0*			*10.0-127*
(S) p-Terphenyl-d14	*82.9*			*10.0-120*

Laboratory Control Sample (LCS)

(LCS) R4220309-1 05/24/25 20:07

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthylene	666	542	81.4	40.0-120	
Benzidine	1330	356	26.8	10.0-120	
Benzo(g,h,i)perylene	666	482	72.4	43.0-120	
Bis(2-chlorethoxy)methane	666	374	56.2	20.0-120	
Bis(2-chloroethyl)ether	666	455	68.3	16.0-120	
2,2-Oxybis(1-Chloropropane)	666	430	64.6	23.0-120	
4-Bromophenyl-phenylether	666	540	81.1	40.0-120	
2-Chloronaphthalene	666	439	65.9	35.0-120	
4-Chlorophenyl-phenylether	666	504	75.7	40.0-120	
1,2-Dichlorobenzene	666	434	65.2	32.0-120	
1,3-Dichlorobenzene	666	416	62.5	30.0-120	
1,4-Dichlorobenzene	666	452	67.9	31.0-120	
3,3-Dichlorobenzidine	1330	1210	91.0	28.0-120	
2,4-Dinitrotoluene	666	547	82.1	45.0-120	
2,6-Dinitrotoluene	666	537	80.6	42.0-120	
Hexachlorobenzene	666	492	73.9	39.0-120	
Hexachloro-1,3-butadiene	666	348	52.3	15.0-120	
Hexachlorocyclopentadiene	666	220	33.0	15.0-120	
Hexachloroethane	666	428	64.3	17.0-120	
Isophorone	666	407	61.1	23.0-120	
Nitrobenzene	666	384	57.7	17.0-120	
n-Nitrosodimethylamine	666	417	62.6	10.0-125	
n-Nitrosodiphenylamine	666	542	81.4	40.0-120	
n-Nitrosodi-n-propylamine	666	499	74.9	26.0-120	

Laboratory Control Sample (LCS)

(LCS) R4220309-1 05/24/25 20:07

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phenanthrene	666	488	73.3	42.0-120	
Benzylbutyl phthalate	666	650	97.6	40.0-120	
Bis(2-ethylhexyl)phthalate	666	619	92.9	41.0-120	
Di-n-butyl phthalate	666	584	87.7	43.0-120	
Diethyl phthalate	666	543	81.5	43.0-120	
Dimethyl phthalate	666	524	78.7	43.0-120	
Di-n-octyl phthalate	666	656	98.5	40.0-120	
1,2,4-Trichlorobenzene	666	372	55.9	17.0-120	
4-Chloro-3-methylphenol	666	435	65.3	28.0-120	
2-Chlorophenol	666	445	66.8	28.0-120	
2,4-Dichlorophenol	666	430	64.6	25.0-120	
2,4-Dimethylphenol	666	388	58.3	15.0-120	
4,6-Dinitro-2-methylphenol	666	537	80.6	16.0-120	
2,4-Dinitrophenol	666	419	62.9	10.0-120	
2-Nitrophenol	666	450	67.6	20.0-120	
4-Nitrophenol	666	542	81.4	27.0-120	
Pentachlorophenol	666	390	58.6	29.0-120	
Phenol	666	477	71.6	28.0-120	
2,4,6-Trichlorophenol	666	468	70.3	37.0-120	
(S) 2-Fluorophenol			*83.9*	*12.0-120*	
(S) Phenol-d5			*81.1*	*10.0-120*	
(S) Nitrobenzene-d5			*67.6*	*10.0-122*	
(S) 2-Fluorobiphenyl			*71.8*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*86.6*	*10.0-127*	
(S) p-Terphenyl-d14			*81.4*	*10.0-120*	

L1862701-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862701-14 05/25/25 02:36 • (MS) R4220309-3 05/25/25 02:56 • (MSD) R4220309-4 05/25/25 03:17

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	698	ND	576	522	82.6	74.5	2	25.0-120			9.91	32
Benzidine	1400	ND	ND	ND	0.000	0.000	2	10.0-120	J6	J6	0.000	40
Benzo(g,h,i)perylene	698	ND	409	363	58.6	51.8	2	10.0-120			11.9	33
Bis(2-chlorethoxy)methane	698	ND	ND	ND	62.1	59.3	2	10.0-120			4.28	34
Bis(2-chloroethyl)ether	698	ND	818	801	117	114	2	10.0-120			2.11	40
2,2-Oxybis(1-Chloropropane)	698	ND	ND	ND	68.3	65.5	2	10.0-120			3.88	40
4-Bromophenyl-phenylether	698	ND	ND	ND	79.5	74.1	2	27.0-120			6.76	30
2-Chloronaphthalene	698	ND	483	432	69.1	61.7	2	20.0-120			11.0	32

L1862701-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862701-14 05/25/25 02:36 • (MS) R4220309-3 05/25/25 02:56 • (MSD) R4220309-4 05/25/25 03:17

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	698	ND	ND	ND	73.2	68.0	2	24.0-120			7.14	29
1,2-Dichlorobenzene	698	ND	ND	ND	64.7	62.2	2	10.0-120			3.61	38
1,3-Dichlorobenzene	698	ND	ND	ND	62.8	59.1	2	10.0-120			5.76	40
1,4-Dichlorobenzene	698	ND	ND	ND	67.6	63.7	2	10.0-120			5.58	39
3,3-Dichlorobenzidine	1400	ND	ND	ND	48.2	45.2	2	10.0-120			6.54	34
2,4-Dinitrotoluene	698	ND	ND	ND	64.1	62.2	2	30.0-120			2.66	31
2,6-Dinitrotoluene	698	ND	ND	ND	70.3	65.2	2	25.0-120			7.21	31
Hexachlorobenzene	698	ND	ND	ND	70.2	65.5	2	27.0-120			6.52	28
Hexachloro-1,3-butadiene	698	ND	ND	ND	58.4	55.9	2	10.0-120			4.01	38
Hexachlorocyclopentadiene	698	ND	ND	ND	0.716	0.233	2	10.0-120	J6	J3 J6	101	40
Hexachloroethane	698	ND	ND	ND	22.8	21.3	2	10.0-120			6.23	40
Isophorone	698	ND	ND	ND	67.3	64.2	2	13.0-120			4.41	34
Nitrobenzene	698	ND	ND	ND	63.5	60.1	2	10.0-120			5.19	36
n-Nitrosodimethylamine	698	ND	ND	ND	59.2	57.2	2	10.0-127			3.15	40
n-Nitrosodiphenylamine	698	ND	ND	ND	79.8	74.8	2	17.0-120			6.12	29
n-Nitrosodi-n-propylamine	698	ND	ND	ND	78.9	71.6	2	10.0-120			9.33	37
Phenanthrene	698	ND	491	461	70.3	65.9	2	17.0-120			6.28	31
Benzylbutyl phthalate	698	ND	ND	ND	92.5	86.6	2	23.0-120			6.31	30
Bis(2-ethylhexyl)phthalate	698	ND	ND	ND	86.9	82.5	2	17.0-126			4.87	30
Di-n-butyl phthalate	698	ND	ND	ND	82.1	77.6	2	30.0-120			5.35	29
Diethyl phthalate	698	ND	ND	ND	78.6	73.8	2	26.0-120			6.01	28
Dimethyl phthalate	698	ND	ND	ND	77.2	72.6	2	25.0-120			5.91	29
Di-n-octyl phthalate	698	ND	711	ND	102	98.3	2	21.0-123			3.20	29
1,2,4-Trichlorobenzene	698	ND	ND	ND	63.0	61.0	2	12.0-120			2.96	37
4-Chloro-3-methylphenol	698	ND	ND	ND	72.3	70.0	2	15.0-120			3.00	30
2-Chlorophenol	698	ND	ND	ND	68.5	63.6	2	15.0-120			7.17	37
2,4-Dichlorophenol	698	ND	ND	ND	70.5	67.8	2	20.0-120			3.53	31
2,4-Dimethylphenol	698	ND	ND	ND	64.4	63.4	2	10.0-120			1.19	33
4,6-Dinitro-2-methylphenol	698	ND	ND	ND	28.1	26.7	2	10.0-120			5.01	39
2,4-Dinitrophenol	698	ND	ND	ND	0.000	0.000	2	10.0-121	J6	J6	0.000	40
2-Nitrophenol	698	ND	ND	ND	64.2	61.0	2	12.0-120			4.88	39
4-Nitrophenol	698	ND	ND	ND	74.8	66.8	2	10.0-137			11.0	32
Pentachlorophenol	698	ND	ND	ND	68.0	65.1	2	10.0-160			4.13	31
Phenol	698	ND	ND	ND	72.5	69.7	2	12.0-120			3.65	38
2,4,6-Trichlorophenol	698	ND	ND	ND	70.3	65.1	2	19.0-120			7.44	32
(S) 2-Fluorophenol					*83.8*	*78.1*		*12.0-120*				
(S) Phenol-d5					*80.0*	*73.4*		*10.0-120*				
(S) Nitrobenzene-d5					*71.9*	*67.4*		*10.0-122*				
(S) 2-Fluorobiphenyl					*71.3*	*65.9*		*15.0-120*				

L1862701-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862701-14 05/25/25 02:36 • (MS) R4220309-3 05/25/25 02:56 • (MSD) R4220309-4 05/25/25 03:17

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
(S) 2,4,6-Tribromophenol					*83.3*	*72.3*		*10.0-127*				
(S) p-Terphenyl-d14					*74.3*	*68.3*		*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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
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

E151

Scan QR Code for instructions

U862716

Company Name: CTEH, LLC	Contact/Report To: Chevron-Bishop, Kyle Lawrence, Tami McMullin, Andy Henault, Eric Catlin, Madelyn Klinkerman
Street Address: 5120 North Shore Drive, North Little Rock, AR 72118	Phone #:
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	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 **: 8oz | 8oz | 8oz | 8oz | 6

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

Analysis Requested

**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:

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 350.1, 351.2, 9056A, SM 4500 Norg	TOC Walkley Black	VOCs 8260D	MS/MSD	Sample Comment
GAC00523T175-2S001	SS	G	-	-	5/23/2025	1045	3	-	-	X	X	X	X	-	-	

MB

MB

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	TLA9 1.4+0.4=1.8	

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: Matthew Beck Signature

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:
Matt Beck /CTEH	05/23/25 1800	PACE	05/23/25 1800
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
		E. Dawn / Pace	5-24-25
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number: N/A

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

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