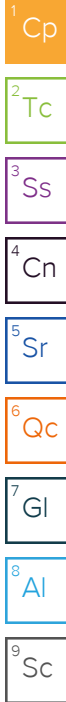


Confluence Compliance Companies - CO

Sample Delivery Group: L1780977
Samples Received: 09/21/2024
Project Number:
Description: Buck Peak 1-16
Site: BUCK PEAK 1-16
Report To: Andy Smith
403 ½ Rockwood Lane
Grand Junction, CO 81507



Entire Report Reviewed By:



Chris Ward
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

240919-BUCK_PEAK_1-16(INJECTATE) L1780977-01 GW

Collected by
Alex Slorby

Collected date/time
09/19/24 10:20

Received date/time
09/21/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2371162	1	09/28/24 10:32	09/28/24 10:32	KA	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2369347	1	09/24/24 19:48	09/25/24 13:03	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2369521	1	09/25/24 18:40	09/25/24 18:40	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050A	WG2369919	1	09/25/24 21:50	09/25/24 21:50	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2368045	50	09/25/24 02:09	09/25/24 02:09	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2368045	500	09/25/24 02:47	09/25/24 02:47	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2371275	1	09/29/24 10:53	09/29/24 15:02	DJS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2371275	5	09/29/24 10:53	09/30/24 11:05	DJS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2371275	50	09/29/24 10:53	09/29/24 21:57	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2371620	1000	09/28/24 10:38	09/28/24 10:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2374122	400	10/02/24 21:31	10/07/24 15:26	MAA	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

Confluence Compliance Companies - CO

PROJECT:

SDG:

L1780977

DATE/TIME:

12/03/24 13:26

PAGE:

3 of 22

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. 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.



Chris Ward
Project Manager



Report Revision History

Level II Report - Version 1: 10/08/24 14:44

Project Narrative

TDS/TSS unable to be analyzed due to sample matrix - Chris Ward

Sample Delivery Group (SDG) Narrative

The Laboratory is not accredited for specific analytes on the associated Sample/Method. These analytes are flagged in the Sample Results section of the report with an asterisk (*).

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1780977-01	240919-BUCK_PEAK_1-16(INJECTION)	9056A

pH outside of method requirement.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1780977-01	240919-BUCK_PEAK_1-16(INJECTION)	8015M

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Alkalinity	249		8.45	20.0	1	09/28/2024 10:32	WG2371162
Alkalinity,Bicarbonate	249		8.45	20.0	1	09/28/2024 10:32	WG2371162
Alkalinity,Carbonate	U		8.45	20.0	1	09/28/2024 10:32	WG2371162

Sample Narrative:

L1780977-01 WG2371162: Endpoint pH 4.5 headspace

Wet Chemistry by Method 365.4

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Phosphorus,Total	0.108		0.0350	0.100	1	09/25/2024 13:03	WG2369347

Wet Chemistry by Method 9040C

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	su			date / time	
pH	7.07	T8	1	09/25/2024 18:40	WG2369521

Sample Narrative:

L1780977-01 WG2369521: 7.07 at 19.6C

Wet Chemistry by Method 9050A

	Result	Units	Qualifier	RDL	Dilution	Analysis	Batch
Analyte						date / time	
Specific Conductance	67500	umhos/cm		10.0	1	09/25/2024 21:50	WG2369919

Sample Narrative:

L1780977-01 WG2369919: at 25C

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
*Bromide	290		34.0	50.0	50	09/25/2024 02:09	WG2368045
Chloride	27300		274	500	500	09/25/2024 02:47	WG2368045
Fluoride	U		3.80	7.50	50	09/25/2024 02:09	WG2368045
Nitrate as (N)	U	T8	4.42	5.00	50	09/25/2024 02:09	WG2368045
Nitrite as (N)	U	T8	3.97	5.00	50	09/25/2024 02:09	WG2368045
Sulfate	U		31.8	250	50	09/25/2024 02:09	WG2368045

Metals (ICP) by Method 6010B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Barium	151		0.00368	0.0250	5	09/30/2024 11:05	WG2371275
Boron	25.7		0.0200	0.200	1	09/29/2024 15:02	WG2371275
Calcium	1320		0.396	5.00	5	09/30/2024 11:05	WG2371275
Iron	4.01		0.0180	0.100	1	09/29/2024 15:02	WG2371275
Magnesium	147		0.0853	1.00	1	09/29/2024 15:02	WG2371275
Manganese	0.113		0.000934	0.0100	1	09/29/2024 15:02	WG2371275
Potassium	69.2		0.261	2.00	1	09/29/2024 15:02	WG2371275
Selenium	U		0.00735	0.0100	1	09/29/2024 15:02	WG2371275
Sodium	13900		25.2	150	50	09/29/2024 21:57	WG2371275
Strontium	175		0.0320	0.500	50	09/29/2024 21:57	WG2371275

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	530		31.4	100	1000	09/28/2024 10:38	WG2371620
(S) a,a,a-Trifluorotoluene(FID)	102			78.0-120		09/28/2024 10:38	WG2371620

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1000		8.88	40.0	400	10/07/2024 15:26	WG2374122
C28-C36 Motor Oil Range	406		4.72	40.0	400	10/07/2024 15:26	WG2374122
(S) o-Terphenyl	0.000	J7		52.0-156		10/07/2024 15:26	WG2374122

1
Cp

2
Tc

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Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4125770-2 09/28/24 10:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		8.45	20.0
Alkalinity,Bicarbonate	U		8.45	20.0
Alkalinity,Carbonate	U		8.45	20.0

Sample Narrative:
BLANK: Endpoint pH 4.5

L1781174-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1781174-12 09/28/24 10:39 • (DUP) R4125770-3 09/28/24 10:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	4780	4980	1	4.08		20
Alkalinity,Bicarbonate	4780	4980	1	4.08		20
Alkalinity,Carbonate	U	U	1	0.000		20

Sample Narrative:
OS: Endpoint pH 4.5 headspace
DUP: Endpoint pH 4.5

L1782086-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1782086-06 09/28/24 12:35 • (DUP) R4125770-4 09/28/24 12:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	180	184	1	2.60		20
Alkalinity,Bicarbonate	180	184	1	2.60		20
Alkalinity,Carbonate	U	U	1	0.000		20

Sample Narrative:
OS: Endpoint pH 4.5 headspace
DUP: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4125770-1 09/28/24 10:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100	106	106	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4124151-1 09/25/24 12:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus,Total	U		0.0350	0.100

L1780851-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1780851-01 09/25/24 12:39 • (DUP) R4124151-5 09/25/24 12:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	U	U	1	0.000		20

L1780859-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1780859-01 09/25/24 12:42 • (DUP) R4124151-6 09/25/24 12:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	0.205	0.191	1	7.07		20

Laboratory Control Sample (LCS)

(LCS) R4124151-2 09/25/24 12:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	1.81	1.85	102	85.0-115	

L1780824-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1780824-01 09/25/24 12:35 • (MS) R4124151-3 09/25/24 12:37 • (MSD) R4124151-4 09/25/24 12:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	2.50	3.11	5.67	5.75	102	106	1	90.0-110	E	E	1.40	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1780898-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1780898-01 09/25/24 18:40 • (DUP) R4124438-2 09/25/24 18:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.75	7.76	1	0.129		1

Sample Narrative:
OS: 7.75 at 19.3C
DUP: 7.76 at 19.4C

1
Cp

2
Tc

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Ss

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Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1781228-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1781228-08 09/25/24 18:40 • (DUP) R4124438-3 09/25/24 18:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.99	8.01	1	0.250		1

Sample Narrative:
OS: 7.99 at 19.1C
DUP: 8.01 at 19C

Laboratory Control Sample (LCS)

(LCS) R4124438-1 09/25/24 18:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:
LCS: 10.02 at 20.1C

Method Blank (MB)

(MB) R4124462-1 09/25/24 21:50

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1779405-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1779405-03 09/25/24 21:50 • (DUP) R4124462-3 09/25/24 21:50

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1220	1220	1	0.0817		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1781299-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1781299-20 09/25/24 21:50 • (DUP) R4124462-5 09/25/24 21:50

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	658	654	1	0.610		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4124462-2 09/25/24 21:50

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	733	680	92.8	85.0-115	

Sample Narrative:

LCS: at 25C

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4124082-1 09/24/24 20:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bromide	U		0.680	1.00
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Nitrate as (N)	U		0.0884	0.100
Nitrite as (N)	U		0.0794	0.100
Sulfate	U		0.637	5.00

L1778309-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1778309-13 09/24/24 21:04 • (DUP) R4124082-3 09/24/24 21:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
		mg/l		%		%
Bromide		U	1	0.000		15
Chloride	9.79	9.74	1	0.488		15
Fluoride		U	1	0.000		15
Nitrate as (N)	3.59	3.54	1	1.47		15
Nitrite as (N)		U	1	0.000		15
Sulfate		52.7	1	0.348		15

L1778309-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1778309-14 09/24/24 21:55 • (DUP) R4124082-6 09/24/24 22:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
		mg/l		%		%
Bromide		U	1	0.000		15
Chloride	17.6	17.7	1	0.554		15
Fluoride		U	1	0.000		15
Nitrate as (N)	1.18	1.18	1	0.533		15
Nitrite as (N)		U	1	0.000		15
Sulfate		74.3	1	0.141		15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4124082-2 09/24/24 20:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromide	40.0	36.2	90.5	80.0-120	
Chloride	40.0	33.9	84.6	80.0-120	
Fluoride	8.00	6.99	87.4	80.0-120	
Nitrate as (N)	8.00	7.39	92.3	80.0-120	
Nitrite as (N)	8.00	7.32	91.4	80.0-120	
Sulfate	40.0	37.2	92.9	80.0-120	

L1778309-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1778309-13 09/24/24 21:04 • (MS) R4124082-4 09/24/24 21:30 • (MSD) R4124082-5 09/24/24 21:42

Analyte	Spike Amount mg/l	Original Result	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Bromide	40.0		40.6	40.3	101	101	1	80.0-120			0.539	15
Chloride	40.0	9.79	47.8	47.5	95.0	94.2	1	80.0-120			0.638	15
Fluoride	8.00		8.14	8.13	102	102	1	80.0-120			0.122	15
Nitrate as (N)	8.00	3.59	11.6	11.6	100	99.9	1	80.0-120			0.340	15
Nitrite as (N)	8.00		8.35	8.33	104	104	1	80.0-120			0.240	15
Sulfate	40.0		86.1	85.6	83.1	81.8	1	80.0-120			0.609	15

L1778309-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L1778309-14 09/24/24 21:55 • (MS) R4124082-7 09/24/24 22:20

Analyte	Spike Amount mg/l	Original Result	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Bromide	40.0		40.9	102	1	80.0-120	
Chloride	40.0	17.6	54.7	93.0	1	80.0-120	
Fluoride	8.00		8.34	104	1	80.0-120	
Nitrate as (N)	8.00	1.18	9.75	107	1	80.0-120	
Nitrite as (N)	8.00		8.48	106	1	80.0-120	
Sulfate	40.0		103	72.2	1	80.0-120	J6

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R4125969-1 09/29/24 15:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Barium	U		0.000736	0.00500
Boron	U		0.0200	0.200
Calcium	U		0.0793	1.00
Iron	U		0.0180	0.100
Magnesium	U		0.0853	1.00
Manganese	U		0.000934	0.0100
Potassium	U		0.261	2.00
Selenium	U		0.00735	0.0100
Sodium	U		0.504	3.00
Strontium	U		0.000640	0.0100

Laboratory Control Sample (LCS)

(LCS) R4125969-2 09/29/24 15:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1.00	0.989	98.9	80.0-120	
Boron	1.00	0.955	95.5	80.0-120	
Calcium	10.0	10.0	100	80.0-120	
Iron	10.0	9.61	96.1	80.0-120	
Magnesium	10.0	9.76	97.6	80.0-120	
Manganese	1.00	0.976	97.6	80.0-120	
Potassium	10.0	9.96	99.6	80.0-120	
Selenium	1.00	0.991	99.1	80.0-120	
Sodium	10.0	9.91	99.1	80.0-120	
Strontium	1.00	0.996	99.6	80.0-120	

L1780743-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1780743-08 09/29/24 15:11 • (MS) R4125969-4 09/29/24 15:14 • (MSD) R4125969-5 09/29/24 15:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1.00	0.0159	1.01	0.989	99.3	97.3	1	75.0-125			1.94	20
Boron	1.00	0.0602	1.02	1.00	95.5	94.4	1	75.0-125			1.13	20
Calcium	10.0	91.1	98.6	99.5	75.7	84.2	1	75.0-125			0.859	20
Iron	10.0	0.648	10.2	10.2	96.0	95.1	1	75.0-125			0.876	20
Magnesium	10.0	2.68	12.4	12.2	96.8	95.6	1	75.0-125			0.935	20
Manganese	1.00	0.0244	1.00	0.987	97.7	96.3	1	75.0-125			1.46	20
Potassium	10.0	5.82	15.6	15.5	97.8	97.0	1	75.0-125			0.506	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1780743-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1780743-08 09/29/24 15:11 • (MS) R4125969-4 09/29/24 15:14 • (MSD) R4125969-5 09/29/24 15:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Selenium	1.00	U	1.00	0.983	100	98.3	1	75.0-125			2.05	20
Sodium	10.0	27.3	36.6	36.4	93.0	91.7	1	75.0-125			0.357	20
Strontium	1.00	0.478	1.46	1.46	98.1	98.5	1	75.0-125			0.282	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4127200-3 09/28/24 02:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120

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

(LCS) R4127200-1 09/27/24 23:39 • (LCSD) R4127200-2 09/28/24 00:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.00	5.39	4.41	108	88.2	72.0-127			20.0	20
(S) a,a,a-Trifluorotoluene(FID)				107	108	78.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4128766-1 10/04/24 14:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	0.0224	⬇	0.0222	0.100
C28-C36 Motor Oil Range	U		0.0118	0.100
(S) o-Terphenyl	79.0			52.0-156

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

(LCS) R4128766-2 10/04/24 14:44 • (LCSD) R4128766-3 10/04/24 15:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	1.50	1.56	1.64	104	109	50.0-150			5.00	20
(S) o-Terphenyl				102	109	52.0-156				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

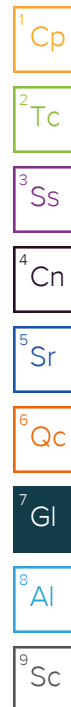
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	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
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

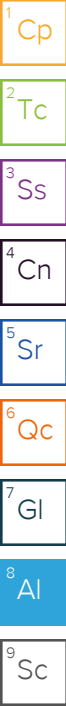
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



9/21-NCF-CONCOMGJCO L1780977/L1780978

R5

Time estimate: 0h

Time spent: 0h

Members

 Hailey Robertson (responsible)  CW Chris Ward

Due on 25 September 2024 8:00 AM for target Done

- ☐ Parameter(s) past holding time
- ☐ Temperature not in range
- ☐ Improper container type
- ☐ pH not in range
- ☐ Insufficient sample volume
- ☒ Sample is biphasic
- ☐ Vials received with headspace
- ☐ Broken container
- ☐ Sufficient sample remains
- ☐ If broken container: Insufficient packing material around container
- ☐ If broken container: Insufficient packing material inside cooler
- ☐ If broken container: Improper handling by carrier: _____
- ☐ If broken container: Sample was frozen
- ☐ If broken container: Container lid not intact
- ☐ Client informed by Call
- ☐ Client informed by Email
- ☐ Client informed by Voicemail
- ☐ Date/Time: _____
- ☐ PM initials: _____
- ☐ Client Contact: _____ Andy Smith _____

Comments

Hailey Robertson	21 September 2024 5:42 PM
Samples are biphasic. Which layer needs to be run?	
Chris Ward	23 September 2024 12:10 PM
Please log both layers to run for all analyses on separate dashes	
Hailey Robertson	24 September 2024 12:02 PM
After looking at the samples I do not think there is enough volume of the top layer to run.	
Chris Ward	24 September 2024 12:04 PM
Go ahead and proceed with just the bottom	

Hailey Robertson

24 September 2024 12:06 PM

Perfect. What Metals is needed? Also at this point the nitrate and nitrite are out of hold as well.

Chris Ward

24 September 2024 12:13 PM

Please log

CAICP

FEICP

MGICP

MNICP

KICP

NAICP

BAICP

BICP

SEICP

SRICP

And proceed

Hailey Robertson

24 September 2024 12:14 PM

Done