

February 28, 2022

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Quandary Consultants

Sample Delivery Group: L1463410

Samples Received: 02/19/2022

Project Number:

Description: Verdad Baseline

Report To:

Asher Weinberg

55 E. 4th Avenue

Denver, CO 80203

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 National

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

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
AMEN 282568 L1463410-01	5
Qc: Quality Control Summary	7
Gravimetric Analysis by Method 2540 C-2011	7
Wet Chemistry by Method 2320 B-2011	8
Wet Chemistry by Method 9056A	10
Metals (ICP) by Method 6010B	11
Volatile Organic Compounds (GC) by Method 8015D/GRO	13
Volatile Organic Compounds (GC) by Method RSK175	14
Volatile Organic Compounds (GC/MS) by Method 8260B	15
Semi-Volatile Organic Compounds (GC) by Method 8015M	16
Gl: Glossary of Terms	17
Al: Accreditations & Locations	18
Sc: Sample Chain of Custody	19



SAMPLE SUMMARY

AMEN 282568 L1463410-01 GW

Collected by
Erin Bailey

Collected date/time
02/18/22 10:49

Received date/time
02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1823199	1	02/24/22 13:05	02/24/22 16:09	BRG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1820909	1	02/23/22 11:13	02/23/22 11:13	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1821012	1	02/21/22 03:21	02/21/22 03:21	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1821012	5	02/21/22 03:38	02/21/22 03:38	KEG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1820692	1	02/20/22 23:06	02/26/22 01:43	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1820692	1	02/20/22 23:06	02/26/22 17:10	KMG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1823116	1	02/24/22 15:58	02/24/22 15:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1820664	1	02/22/22 13:29	02/22/22 13:29	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1821264	1	02/21/22 16:28	02/21/22 16:28	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1821882	1	02/24/22 00:08	02/25/22 17:09	WCR	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

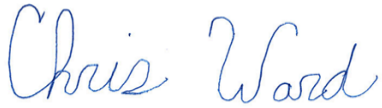
⁷Gl

⁸Al

⁹Sc

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	825000		13300	1	02/24/2022 16:09	WG1823199

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	210000		20000	1	02/23/2022 11:13	WG1820909
Alkalinity,Bicarbonate	210000		20000	1	02/23/2022 11:13	WG1820909
Alkalinity,Carbonate	ND		20000	1	02/23/2022 11:13	WG1820909

Sample Narrative:

L1463410-01 WG1820909: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Bromide	1170		1000	1	02/21/2022 03:21	WG1821012
Chloride	154000		5000	5	02/21/2022 03:38	WG1821012
Fluoride	380		150	1	02/21/2022 03:21	WG1821012
Sulfate	221000		25000	5	02/21/2022 03:38	WG1821012

Metals (ICP) by Method 6010B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Calcium	147000		1000	1	02/26/2022 17:10	WG1820692
Magnesium	22800		1000	1	02/26/2022 01:43	WG1820692
Potassium	4980		2000	1	02/26/2022 01:43	WG1820692
Sodium	108000		3000	1	02/26/2022 01:43	WG1820692

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

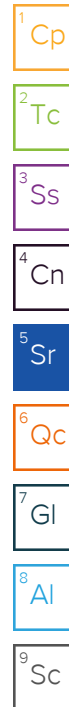
Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		100	1	02/24/2022 15:58	WG1823116
(S) a,a,a-Trifluorotoluene(FID)	116		78.0-120		02/24/2022 15:58	WG1823116

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	02/22/2022 13:29	WG1820664
Ethane	ND		13.0	1	02/22/2022 13:29	WG1820664
Propane	ND		19.0	1	02/22/2022 13:29	WG1820664

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	02/21/2022 16:28	WG1821264
Toluene	ND		1.00	1	02/21/2022 16:28	WG1821264
Ethylbenzene	ND		1.00	1	02/21/2022 16:28	WG1821264
Total Xylenes	ND		3.00	1	02/21/2022 16:28	WG1821264
(S) Toluene-d8	104		80.0-120		02/21/2022 16:28	WG1821264
(S) 4-Bromofluorobenzene	87.3		77.0-126		02/21/2022 16:28	WG1821264
(S) 1,2-Dichloroethane-d4	105		70.0-130		02/21/2022 16:28	WG1821264



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		100	1	02/25/2022 17:09	WG1821882
C28-C36 Motor Oil Range	ND		100	1	02/25/2022 17:09	WG1821882
(S) o-Terphenyl	68.0		52.0-156		02/25/2022 17:09	WG1821882

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) R3764150-1 02/24/22 16:09

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1463410-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1463410-01 02/24/22 16:09 • (DUP) R3764150-3 02/24/22 16:09

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	825000	831000	1	0.645		5

L1463857-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1463857-03 02/24/22 16:09 • (DUP) R3764150-4 02/24/22 16:09

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	768000	776000	1	1.04		5

Laboratory Control Sample (LCS)

(LCS) R3764150-2 02/24/22 16:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8550000	97.2	77.4-123	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3762938-2 02/23/22 10:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000
Alkalinity,Bicarbonate	U		8450	20000
Alkalinity,Carbonate	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1463260-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1463260-02 02/23/22 10:30 • (DUP) R3762938-3 02/23/22 10:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	376000	376000	1	0.0120		20
Alkalinity,Bicarbonate	376000	376000	1	0.0120		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L1463413-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1463413-01 02/23/22 11:17 • (DUP) R3762938-4 02/23/22 11:19

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	22500	22600	1	0.418		20
Alkalinity,Bicarbonate	22500	22600	1	0.418		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5



Laboratory Control Sample (LCS)

(LCS) R3762938-1 02/23/22 10:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100000	99100	99.1	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3762170-1 02/20/22 21:06

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Bromide	U		353	1000
Chloride	U		379	1000
Fluoride	U		64.0	150
Sulfate	U		594	5000

L1463227-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1463227-04 02/20/22 23:58 • (DUP) R3762170-3 02/21/22 00:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Bromide	ND	ND	1	0.000		15
Chloride	ND	ND	1	1.75		15
Fluoride	158	154	1	2.25		15
Sulfate	9650	9600	1	0.512		15

Laboratory Control Sample (LCS)

(LCS) R3762170-2 02/20/22 21:23

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Bromide	40000	40500	101	80.0-120	
Chloride	40000	40800	102	80.0-120	
Fluoride	8000	8300	104	80.0-120	
Sulfate	40000	40900	102	80.0-120	

L1463227-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463227-04 02/20/22 23:58 • (MS) R3762170-4 02/21/22 01:06 • (MSD) R3762170-5 02/21/22 01:23

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Bromide	50000	ND	44900	45300	89.9	90.5	1	80.0-120			0.745	15
Chloride	50000	ND	46000	45900	91.2	91.1	1	80.0-120			0.111	15
Fluoride	5000	158	4710	4690	91.1	90.7	1	80.0-120			0.489	15
Sulfate	50000	9650	55900	55800	92.5	92.2	1	80.0-120			0.222	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3764107-1 02/26/22 00:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Magnesium	U		85.3	1000
Potassium	U		261	2000
Sodium	650	⬇	504	3000

Method Blank (MB)

(MB) R3764185-1 02/26/22 16:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Calcium	U		79.3	1000

Laboratory Control Sample (LCS)

(LCS) R3764107-2 02/26/22 00:19

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Magnesium	10000	10700	107	80.0-120	
Potassium	10000	10300	103	80.0-120	
Sodium	10000	11000	110	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3764185-2 02/26/22 16:51

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Calcium	10000	9530	95.3	80.0-120	

L1463366-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463366-07 02/26/22 00:22 • (MS) R3764107-4 02/26/22 00:27 • (MSD) R3764107-5 02/26/22 00:30

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Magnesium	10000	5970	16300	16200	103	102	1	75.0-125			0.511	20
Potassium	10000	2510	12400	12500	99.4	99.8	1	75.0-125			0.345	20
Sodium	10000	6670	18600	17800	119	112	1	75.0-125			4.19	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1463366-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463366-07 02/26/22 16:53 • (MS) R3764185-4 02/26/22 16:59 • (MSD) R3764185-5 02/26/22 17:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Calcium	10000	4680	14000	14200	93.7	95.3	1	75.0-125			1.15	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3763642-2 02/24/22 11:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPH (GC/FID) Low Fraction	U		31.4	100
(S) a,a,a-Trifluorotoluene(FID)	114			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3763642-1 02/24/22 11:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5500	5540	101	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			102	78.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3762537-2 02/22/22 11:51

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Methane	U		2.91	10.0
Ethane	U		4.07	13.0
Propane	U		5.48	19.0

L1463260-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1463260-05 02/22/22 13:08 • (DUP) R3762537-3 02/22/22 13:10

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	ND	ND	1	0.000		20
Ethane	ND	ND	1	0.000		20
Propane	ND	ND	1	0.000		20

L1463413-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1463413-04 02/22/22 13:45 • (DUP) R3762537-4 02/22/22 13:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	ND	ND	1	0.000		20
Ethane	ND	ND	1	0.000		20
Propane	ND	ND	1	0.000		20

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

(LCS) R3762537-1 02/22/22 11:47 • (LCSD) R3762537-5 02/22/22 13:54

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	71.6	62.4	106	92.0	85.0-115			13.7	20
Ethane	129	129	117	100	90.7	85.0-115			9.76	20
Propane	186	191	172	103	92.5	85.0-115			10.5	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3762080-3 02/21/22 11:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) 1,2-Dichloroethane-d4	104			70.0-130
(S) 4-Bromofluorobenzene	86.6			77.0-126
(S) Toluene-d8	103			80.0-120

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

(LCS) R3762080-1 02/21/22 10:33 • (LCSD) R3762080-2 02/21/22 10:55

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 %
Benzene	5.00	4.19	4.08	83.8	81.6	70.0-123			2.66	20
Ethylbenzene	5.00	4.45	4.13	89.0	82.6	79.0-123			7.46	20
Toluene	5.00	4.60	4.35	92.0	87.0	79.0-120			5.59	20
Xylenes, Total	15.0	13.3	12.7	88.7	84.7	79.0-123			4.62	20
(S) 1,2-Dichloroethane-d4				105	101	70.0-130				
(S) 4-Bromofluorobenzene				86.4	90.9	77.0-126				
(S) Toluene-d8				103	101	80.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3763272-1 02/24/22 02:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
C10-C28 Diesel Range	38.9	J	22.2	100
C28-C36 Motor Oil Range	U		11.8	100
(S) o-Terphenyl	88.5			52.0-156

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

(LCS) R3763272-2 02/24/22 02:45 • (LCSD) R3763272-3 02/24/22 03:07

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 %
C10-C28 Diesel Range	1500	1550	1580	103	105	50.0-150			1.92	20
(S) o-Terphenyl				63.0	67.5	52.0-156				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

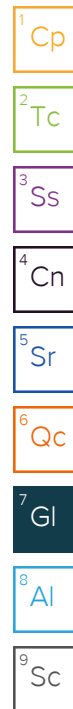
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---



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.



ALK, ALKBI, ALKCA 250ml HDPE-NoPres
Br, Cl, F, SO4 250ml HDPE-NoPres
Ca, K, Mg, Na 250ml HDPE-HNO3
DRONMLVI 40ml Amb-HCl-BT
GRO 40ml Amb HCl
RSK175 40ml Amb HCl
TDS 1L-HDPE NoPres
V8260BTEx 40ml Amb-HCl

[illegible]

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y	N
COC Signed/Accurate:		<i>[initials]</i>	N
Bottles arrive intact:		<i>[initials]</i>	N
Correct bottles used:		<i>[initials]</i>	N
Sufficient volume sent:		Y	N
<u>If Applicable</u>			
VOA Zero Headspace:		<i>[initials]</i>	N
Preservation Correct/Checked:		<i>[initials]</i>	N
RAD Screen <0.5 mR/hr:		Y	N

If preservation required by Login: Date/Time