

Caerus Oil and Gas

Sample Delivery Group: L1605401

Samples Received: 04/14/2023

Project Number:

Description: 909J

Report To: Brett M. , Jake J. , Blair R.
143 Diamond Avenue
Parachute, CO 81635

Entire Report Reviewed By:

Chris Ward
Project Manager

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Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

20230413-OUSOURCE (2HOU-T)) L1605401-01 GW

Collected by: Will Harmon
 Collected date/time: 04/13/23 10:20
 Received date/time: 04/14/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2043684	1	04/18/23 12:15	04/18/23 12:15	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2041939	1	04/18/23 17:54	04/18/23 17:54	AEC	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2043252	1	04/15/23 16:28	04/17/23 11:52	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2042447	1	04/18/23 14:32	04/18/23 14:32	DB	Mt. Juliet, TN
Wet Chemistry by Method 9050A	WG2041510	1	04/19/23 17:33	04/19/23 17:33	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2042418	10	04/15/23 03:19	04/15/23 03:19	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2042418	100	04/15/23 08:53	04/15/23 08:53	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2042512	1	04/15/23 15:13	04/19/23 17:33	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2042512	20	04/15/23 15:13	04/20/23 15:05	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2042512	5	04/15/23 15:13	04/20/23 15:03	SPL	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2045471	50	04/21/23 02:14	04/21/23 02:14	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2042778	50	04/16/23 02:57	04/16/23 02:57	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2044151	500	04/19/23 04:01	04/19/23 04:01	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2042491	1	04/15/23 21:09	04/19/23 07:06	MWS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2042491	5	04/15/23 21:09	04/19/23 23:56	NH	Mt. Juliet, TN

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

TRIP BLANK L1605401-02 GW

Collected by: Will Harmon
 Collected date/time: 04/13/23 00:00
 Received date/time: 04/14/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2042778	1	04/15/23 22:11	04/15/23 22:11	ACG	Mt. Juliet, TN

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

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Alkalinity	541		8.45	20.0	1	04/18/2023 12:15	WG2043684
Alkalinity,Bicarbonate	541		8.45	20.0	1	04/18/2023 12:15	WG2043684
Alkalinity,Carbonate	U		8.45	20.0	1	04/18/2023 12:15	WG2043684

Sample Narrative:

L1605401-01 WG2043684: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	04/18/2023 17:54	WG2041939

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Phosphorus,Total	0.701		0.0350	0.100	1	04/17/2023 11:52	WG2043252

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	pH			date / time	
pH	6.57	T8	1	04/18/2023 14:32	WG2042447

Sample Narrative:

L1605401-01 WG2042447: 6.57 at 19.9C

Wet Chemistry by Method 9050A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	umhos/cm		umhos/cm		date / time	
Specific Conductance	37100		10.0	1	04/19/2023 17:33	WG2041510

Sample Narrative:

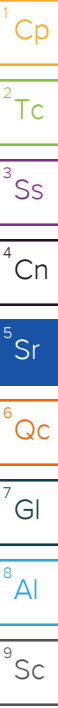
L1605401-01 WG2041510: at 25C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Bromide	101		3.53	10.0	10	04/15/2023 03:19	WG2042418
Chloride	14000		37.9	100	100	04/15/2023 08:53	WG2042418
Fluoride	U		0.640	1.50	10	04/15/2023 03:19	WG2042418
Nitrate as (N)	U		0.480	1.00	10	04/15/2023 03:19	WG2042418
Nitrite as (N)	U		0.420	1.00	10	04/15/2023 03:19	WG2042418
Sulfate	U		5.94	50.0	10	04/15/2023 03:19	WG2042418

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Barium	163		0.00368	0.0250	5	04/20/2023 15:03	WG2042512
Boron	1.44		0.0200	0.200	1	04/19/2023 17:33	WG2042512
Calcium	242		0.0793	1.00	1	04/19/2023 17:33	WG2042512
Iron	78.6		0.0180	0.100	1	04/19/2023 17:33	WG2042512
Magnesium	33.5		0.0853	1.00	1	04/19/2023 17:33	WG2042512
Manganese	0.965		0.000934	0.0100	1	04/19/2023 17:33	WG2042512
Potassium	95.0		0.261	2.00	1	04/19/2023 17:33	WG2042512



Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Selenium	U		0.00735	0.0100	1	04/19/2023 17:33	WG2042512
Sodium	7500		10.1	60.0	20	04/20/2023 15:05	WG2042512
Strontium	29.3		0.00320	0.0500	5	04/20/2023 15:03	WG2042512

1 Cp

2 Tc

3 Ss

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	98.5		1.57	5.00	50	04/21/2023 02:14	WG2045471
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	113			78.0-120		04/21/2023 02:14	WG2045471

4 Cn

5 Sr

6 Qc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	4.01		0.00471	0.0500	50	04/16/2023 02:57	WG2042778
Toluene	14.5		0.139	0.500	500	04/19/2023 04:01	WG2044151
Ethylbenzene	0.664		0.00685	0.0500	50	04/16/2023 02:57	WG2042778
Xylenes, Total	11.7		0.00870	0.150	50	04/16/2023 02:57	WG2042778
Naphthalene	0.180	J	0.0500	0.250	50	04/16/2023 02:57	WG2042778
(S) Toluene-d8	102			80.0-120		04/16/2023 02:57	WG2042778
(S) Toluene-d8	109			80.0-120		04/19/2023 04:01	WG2044151
(S) 4-Bromofluorobenzene	105			77.0-126		04/16/2023 02:57	WG2042778
(S) 4-Bromofluorobenzene	109			77.0-126		04/19/2023 04:01	WG2044151
(S) 1,2-Dichloroethane-d4	102			70.0-130		04/16/2023 02:57	WG2042778
(S) 1,2-Dichloroethane-d4	111			70.0-130		04/19/2023 04:01	WG2044151

7 Gl

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
C10-C28 Diesel Range	11.0		0.111	0.500	5	04/19/2023 23:56	WG2042491
C28-C36 Motor Oil Range	0.876		0.0118	0.100	1	04/19/2023 07:06	WG2042491
(S) <i>o</i> -Terphenyl	605	J1		52.0-156		04/19/2023 07:06	WG2042491
(S) <i>o</i> -Terphenyl	211	J1		52.0-156		04/19/2023 23:56	WG2042491

Sample Narrative:

L1605401-01 WG2042491: Surrogate failure due to matrix interference

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	04/15/2023 22:11	WG2042778
Toluene	U		0.000278	0.00100	1	04/15/2023 22:11	WG2042778
Ethylbenzene	U		0.000137	0.00100	1	04/15/2023 22:11	WG2042778
Xylenes, Total	U		0.000174	0.00300	1	04/15/2023 22:11	WG2042778
Naphthalene	U		0.00100	0.00500	1	04/15/2023 22:11	WG2042778
(S) Toluene-d8	103			80.0-120		04/15/2023 22:11	WG2042778
(S) 4-Bromofluorobenzene	104			77.0-126		04/15/2023 22:11	WG2042778
(S) 1,2-Dichloroethane-d4	105			70.0-130		04/15/2023 22:11	WG2042778

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

Method Blank (MB)

(MB) R3914400-2 04/18/23 09:54

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

L1604826-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1604826-01 04/18/23 10:14 • (DUP) R3914400-3 04/18/23 10:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	550	542	1	1.51		20
Alkalinity,Bicarbonate	550	542	1	1.51		20
Alkalinity,Carbonate	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L1605730-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605730-01 04/18/23 12:19 • (DUP) R3914400-4 04/18/23 12:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	139	141	1	1.57		20
Alkalinity,Bicarbonate	139	141	1	1.57		20
Alkalinity,Carbonate	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5



Laboratory Control Sample (LCS)

(LCS) R3914400-1 04/18/23 09:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100	104	104	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3914579-1 04/18/23 17:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Nitrate-Nitrite	U		0.0500	0.100

¹Cp

²Tc

³Ss

L1604765-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1604765-01 04/18/23 17:26 • (DUP) R3914579-5 04/18/23 17:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	0.474	0.481	1	1.47		20

⁴Cn

⁵Sr

L1605056-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605056-01 04/18/23 18:02 • (DUP) R3914579-8 04/18/23 18:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	2.84	2.84	1	0.000		20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3914579-2 04/18/23 17:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	2.50	2.51	100	90.0-110	

L1604543-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1604543-01 04/18/23 17:22 • (MS) R3914579-3 04/18/23 17:23 • (MSD) R3914579-4 04/18/23 17:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Nitrate-Nitrite	2.50	0.650	3.06	3.00	96.4	94.0	1	90.0-110			1.98	20

L1604778-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1604778-01 04/18/23 17:34 • (MS) R3914579-6 04/18/23 17:36

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Nitrate-Nitrite	2.50	3.83	5.99	86.4	1	90.0-110	<u>EJ6</u>

Method Blank (MB)

(MB) R3913925-1 04/17/23 11:25

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1604922-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1604922-01 04/17/23 11:27 • (DUP) R3913925-3 04/17/23 11:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Phosphorus,Total	0.522	0.511	1	2.13		20

L1605331-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605331-01 04/17/23 12:24 • (DUP) R3913925-8 04/17/23 12:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Phosphorus,Total	4.02	3.95	1	1.76		20

Laboratory Control Sample (LCS)

(LCS) R3913925-2 04/17/23 11:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Phosphorus,Total	2.47	2.50	101	83.2-116	

L1604922-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1604922-01 04/17/23 11:27 • (MS) R3913925-4 04/17/23 11:30 • (MSD) R3913925-5 04/17/23 11:31

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Phosphorus,Total	2.50	0.522	2.97	2.96	97.9	97.5	1	90.0-110			0.337	20

L1605248-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1605248-08 04/18/23 14:32 • (DUP) R3914468-2 04/18/23 14:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su			%		%
pH	7.52	7.50	1	0.266		1

Sample Narrative:

OS: 7.52 at 20.2C

DUP: 7.5 at 20.2C

L1605248-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1605248-10 04/18/23 14:32 • (DUP) R3914468-3 04/18/23 14:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su			%		%
pH	7.80	7.82	1	0.256		1

Sample Narrative:

OS: 7.8 at 20.7C

DUP: 7.82 at 20.1C

Laboratory Control Sample (LCS)

(LCS) R3914468-1 04/18/23 14:32

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

Sample Narrative:

LCS: 10 at 19.3C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3915106-1 04/19/23 17:33

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

L1604826-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1604826-01 04/19/23 17:33 • (DUP) R3915106-3 04/19/23 17:33

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	7470	7480	1	0.134		20

Sample Narrative:

OS: at 25C
DUP: at 25C

L1605126-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1605126-05 04/19/23 17:33 • (DUP) R3915106-4 04/19/23 17:33

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	341	340	1	0.294		20

Sample Narrative:

OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3915106-2 04/19/23 17:33

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1120	1170	104	85.0-115	

Sample Narrative:

LCS: at 25C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3914303-1 04/14/23 22:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Bromide	U		0.353	1.00
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1605360-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605360-01 04/15/23 01:28 • (DUP) R3914303-5 04/15/23 07:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Bromide	2.96	3.47	1	15.8	P1	15
Chloride	106	107	1	0.938		15
Fluoride	U	U	1	0.000		15
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1605431-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605431-01 04/15/23 03:35 • (DUP) R3914303-6 04/15/23 09:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	115	116	1	1.07		15
Nitrate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3914303-2 04/14/23 23:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Bromide	40.0	39.6	98.9	80.0-120	
Chloride	40.0	39.5	98.8	80.0-120	
Fluoride	8.00	7.64	95.6	80.0-120	
Nitrate	8.00	7.78	97.2	80.0-120	
Nitrite	8.00	8.20	102	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3914303-2 04/14/23 23:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Sulfate	40.0	39.4	98.6	80.0-120	

L1605291-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605291-01 04/15/23 01:12 • (MS) R3914303-3 04/15/23 06:30 • (MSD) R3914303-4 04/15/23 06:46

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 %
Bromide	50.0	U	39.7	38.8	79.4	77.6	1	80.0-120	<u>J6</u>	<u>J6</u>	2.29	15
Chloride	50.0	60.6	107	108	93.3	94.6	1	80.0-120			0.593	15
Fluoride	5.00	0.433	4.85	4.90	88.4	89.4	1	80.0-120			0.963	15
Nitrate	5.00	1.39	7.66	7.54	125	123	1	80.0-120	<u>J5</u>	<u>J5</u>	1.65	15
Nitrite	5.00	0.122	5.19	5.28	101	103	1	80.0-120			1.66	15
Sulfate	50.0	416	462	463	90.3	92.2	1	80.0-120	<u>E</u>	<u>E</u>	0.203	15

L1605431-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1605431-01 04/15/23 03:35 • (MS) R3914303-7 04/15/23 09:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	115	160	88.9	1	80.0-120	
Nitrate	5.00	U	5.10	102	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3915126-1 04/19/23 17:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Barium	U		0.000736	0.00500
Boron	U		0.0200	0.200
Calcium	U		0.0793	1.00
Iron	0.232		0.0180	0.100
Magnesium	U		0.0853	1.00
Manganese	0.00109	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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3915126-2 04/19/23 17:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Barium	1.00	1.04	104	80.0-120	
Boron	1.00	0.949	94.9	80.0-120	
Calcium	10.0	9.79	97.9	80.0-120	
Iron	10.0	9.58	95.8	80.0-120	
Magnesium	10.0	9.30	93.0	80.0-120	
Manganese	1.00	0.942	94.2	80.0-120	
Potassium	10.0	10.3	103	80.0-120	
Selenium	1.00	1.01	101	80.0-120	
Sodium	10.0	10.3	103	80.0-120	
Strontium	1.00	0.993	99.3	80.0-120	

7 Gl

8 Al

9 Sc

L1605395-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605395-01 04/19/23 17:18 • (MS) R3915126-4 04/19/23 17:24 • (MSD) R3915126-5 04/19/23 17:27

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Barium	1.00	49.4	48.8	48.9	0.000	0.000	1	75.0-125	U	U	0.265	20
Boron	1.00	1.94	2.76	2.77	82.2	83.6	1	75.0-125			0.490	20
Calcium	10.0	101	108	108	69.8	79.1	1	75.0-125	U		0.860	20
Iron	10.0	30.1	38.5	38.9	83.7	87.4	1	75.0-125			0.964	20
Magnesium	10.0	20.5	28.4	28.7	79.0	82.0	1	75.0-125			1.06	20
Manganese	1.00	0.378	1.28	1.28	89.8	90.0	1	75.0-125			0.197	20
Potassium	10.0	39.8	49.6	50.3	98.0	105	1	75.0-125			1.45	20

L1605395-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605395-01 04/19/23 17:18 • (MS) R3915126-4 04/19/23 17:24 • (MSD) R3915126-5 04/19/23 17:27

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 %
Selenium	1.00	U	1.17	1.17	117	117	1	75.0-125			0.149	20
Strontium	1.00	14.8	15.1	15.4	30.2	52.6	1	75.0-125	√	√	1.47	20

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

Method Blank (MB)

(MB) R3915753-2 04/20/23 23:53

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)	121	J1		78.0-120

Laboratory Control Sample (LCS)

(LCS) R3915753-1 04/20/23 22:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.81	106	72.0-127	
^(S) a,a,a-Trifluorotoluene(FID)			115	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) R3914486-3 04/15/23 21:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
Naphthalene	U		0.00100	0.00500
<i>(S) Toluene-d8</i>	103			80.0-120
<i>(S) 4-Bromofluorobenzene</i>	107			77.0-126
<i>(S) 1,2-Dichloroethane-d4</i>	106			70.0-130

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

(LCS) R3914486-1 04/15/23 20:07 • (LCSD) R3914486-2 04/15/23 20:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.00500	0.00520	0.00482	104	96.4	70.0-123			7.58	20
Toluene	0.00500	0.00497	0.00463	99.4	92.6	79.0-120			7.08	20
Ethylbenzene	0.00500	0.00539	0.00506	108	101	79.0-123			6.32	20
Xylenes, Total	0.0150	0.0159	0.0154	106	103	79.0-123			3.19	20
Naphthalene	0.00500	0.00597	0.00627	119	125	54.0-135			4.90	20
<i>(S) Toluene-d8</i>				101	103	80.0-120				
<i>(S) 4-Bromofluorobenzene</i>				107	107	77.0-126				
<i>(S) 1,2-Dichloroethane-d4</i>				104	104	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3914787-3 04/18/23 19:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Toluene	U		0.000278	0.00100
(S) Toluene-d8	110			80.0-120
(S) 4-Bromofluorobenzene	106			77.0-126
(S) 1,2-Dichloroethane-d4	111			70.0-130

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

(LCS) R3914787-1 04/18/23 18:40 • (LCSD) R3914787-2 04/18/23 18:59

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 %
Toluene	0.00500	0.00559	0.00555	112	111	79.0-120			0.718	20
(S) Toluene-d8				108	106	80.0-120				
(S) 4-Bromofluorobenzene				106	113	77.0-126				
(S) 1,2-Dichloroethane-d4				104	109	70.0-130				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3914464-1 04/16/23 03:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	0.0361	↓	0.0222	0.100
C28-C36 Motor Oil Range	U		0.0118	0.100
(S) o-Terphenyl	108			52.0-156

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

(LCS) R3914464-2 04/16/23 03:29 • (LCSD) R3914464-3 04/16/23 03:51

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	1.65	104	110	50.0-150			5.61	20
(S) o-Terphenyl				97.0	103	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

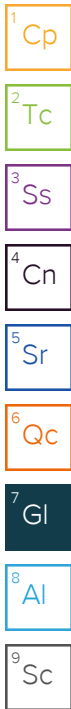
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

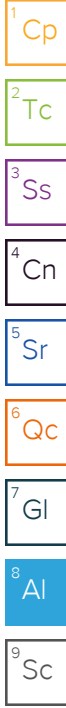
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Company Name / Address: **Caerus Oil and Gas**
 143 Diamond Avenue
 Parachute, CO 81635

Billing Information:
 Accounts Payable
 1001 17th St., Ste. 1600
 Denver, CO 80202

Report to: **Brett Middleton**
 Email To: **JJanicek@caerusoilandgas.com; brollins@caerus**

Project Description: **909J** City/State Collected: **Parachute, CO** Please Circle: **PT (M) CT ET**

Chain of Custody Page ___ of ___

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Phone: **970-285-2653** Client Project # _____ Lab Project # _____

Collected by (print): **Will Harmon** Site/Facility ID # _____ P.O. # _____

Collected by (signature): *[Signature]* **Rush?** (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Quote # _____ Date Results Needed **ASAP**

Immediately Packed on Ice N ___ Y **X**

Sample ID Comp/Grab Matrix * Depth Date Time Cntrs

Analysis / Container / Preservative	Pres Chk
ALK,ALKBI,ALKCA 250mlHDPE-NoPres	
Br,Cl,F,SO4 250mlHDPE-NoPres	
DRONMLVI 40mlAmb-HCl-BT	
GRO 40mlAmb HCl	
PT 250mlHDPE-H2SO4	
RA-226/228 1L-HDPE-Add-HNO3	
SPCON 250mlHDPE-NoPres	
TDS 1L-HDPE NoPres	
TSS 1L-HDPE NoPres	
Total Metals 250mlHDPE-HNO3	

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	ALK,ALKBI,ALKCA 250mlHDPE-NoPres	Br,Cl,F,SO4 250mlHDPE-NoPres	DRONMLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	PT 250mlHDPE-H2SO4	RA-226/228 1L-HDPE-Add-HNO3	SPCON 250mlHDPE-NoPres	TDS 1L-HDPE NoPres	TSS 1L-HDPE NoPres	Total Metals 250mlHDPE-HNO3
20230413-0USOURCE (ZHOVT) Grab	GW	Surface		4/13/2023	1020	17	X	X	X	X	X	X	X	X	X	X
	GW					17	X	X	X	X	X	X	X	X	X	X
	GW					17	X	X	X	X	X	X	X	X	X	X
	GW					17	X	X	X	X	X	X	X	X	X	X
	GW					17	X	X	X	X	X	X	X	X	X	X
	GW					17	X	X	X	X	X	X	X	X	X	X
	GW					17	X	X	X	X	X	X	X	X	X	X
	GW					17	X	X	X	X	X	X	X	X	X	X
	GW					17	X	X	X	X	X	X	X	X	X	X
	GW					17	X	X	X	X	X	X	X	X	X	X

SDG # **160540**

Table # **1012 2011**

Acctnum: **CAERUSPCO**
 Template: **T215555**
 Prelogin: **P963757**
 PM: **824 - Chris Ward**
 PB: _____

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

* Matrix: SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **Metals - Ba,B,Ca,Fe,K,Mg,Mn,Na,Se,Sr**

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist
 COC Seal Present/Intact: NP N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Samples returned via: ___ UPS ___ FedEx ___ Courier _____ Tracking # _____

Relinquished by: (Signature) *[Signature]* Date: **4/13/23** Time: **1500** Received by: (Signature) *[Signature]* Trip Blank Received: Yes / No (HCL / MeOH TBR)

Relinquished by: (Signature) *[Signature]* Date: **4/13/23** Time: **1700** Received by: (Signature) *[Signature]* Temp: **45.2 to 45** °C Bottles Received: **17** If preservation required by Login: Date/Time

Relinquished by: (Signature) _____ Date: _____ Time: _____ Received for lab by: (Signature) *[Signature]* Date: **4/14/23** Time: **0915** Hold: _____ Condition: **NCF / OK**

Company Address: **Caerus Oil and Gas**
 143 Diamond Avenue
 Parachute, CO 81635

Billing Information:
 Accounts Payable
 1001 17th St., Ste. 1600
 Denver, CO 80202

Report to: **Brett Middleton**

Project Description: **9095**

City/State: **Parachute, CO**

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Email To: **Jjanicek@caerusoilandgas.com; brollins@caerus**

Please Circle: **PT** **MD** **CT** **ET**

Client Project #

Lab Project #

Site/Facility ID #

P.O. #

Quote #

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Date Results Needed: **ASAP**

No. of Cntrs

Phone: **970-285-2653**

Collected by (print): **Will Harwin**

Collected by (signature): *[Signature]*

Immediately Packed on Ice **N** **Y**

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Remarks

Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXN 40mlAmb-HCl	V8260BTEXN 40mlAmb-HCl-Blk	pH 125mlHDPE-NoPres									
20230413-DUSOURCE(2HOUR) Grab		GW	Surface	4/13/2023	1020	17	X	X	X									
		GW				17	X	X										
		GW				17	X	X										
		GW				17	X	X										
		GW				17	X	X										
		GW				17	X	X										
		GW				17	X	X										
		GW				17	X	X										
		GW				17	X	X										

* Matrix: **SS** - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: **Metals - Ba,B,Ca,Fe,K,Mg,Mn,Na,Se,Sr**

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: **Y** **N**

COC Signed/Accurate: **Y** **N**

Bottles arrive intact: **Y** **N**

Correct bottles used: **Y** **N**

Sufficient volume sent: **Y** **N**

If Applicable

VOA Zero Headspace: **Y** **N**

Preservation Correct/Checked: **Y** **N**

RAD Screen <0.5 mR/hr: **Y** **N**

Samples returned via: UPS FedEx Courier

Tracking #

Relinquished by: (Signature) *[Signature]* Date: **4/13/23** Time: **500**

Received by: (Signature) *[Signature]* Trip Blank Received: **Yes** **No**

Relinquished by: (Signature) *[Signature]* Date: **4/13/23** Time: **1530**

Received by: (Signature) *[Signature]* Temp: **4.5 to 4.5 °C** Bottles Received: **17**

Relinquished by: (Signature) *[Signature]* Date: **4/14/23** Time: **0915**

Received for lab by: (Signature) *[Signature]* Date: **4/14/23** Time: **0915**

If preservation required by Login: Date/Time

Hold:

Condition: **NCF / OK**

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **L1605401**

Table #

Acctnum: **CAERUSPCO**

Template: **T215555**

Prelogin: **P963757**

PM: **824 - Chris Ward**

PB:

Shipped Via: **FedEX Ground**

01/02