

# TABLES

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Summit BBE Gathering Line  
Soil Data Summary  
Table 1

LABORATORY DATA SUMMARY																				
Sample ID	Sample #1 North Wall	Sample #2 South Wall	Sample #3 East Wall	Sample #4 West Wall	Sample #5 Floor	Sample #5 Floor (AS Re-run 1)	Sample #5 Floor (AS Re-run 2)	SB01@10	SB01@15	SB01@20	B8E-BG-SS1@1	B8E-BG-SS2@1	B8E-BG-SS3@1	Sample #6 Background	Sample #7 Background	COGCC TABLE 915-1 CONCENTRATION LEVELS				
Sample Depth	16'	14'	16'	16'	17.5'	17.5'	17.5'	10'	15'	20'	1'	1'	1'	6'	17.5'					
Latitude	39.4647816	39.4647464	39.4647568	39.4647705	39.4647581	39.4647581	39.4647581	39.4647397	39.4647397	39.4647397	39.465409	39.465541	39.465218	39.4647273	39.4647273					
Longitude	-107.6870512	-107.6871132	-107.6870773	-107.687089	-107.6870921	-107.6870921	-107.6870921	107.687131	107.687131	107.687131	-107.68701	-107.687227	-107.686293	-107.6872215	-107.6872215					
Report Number	4604 / 2108D59	4604 / 2108D59	4604 / 2108D59	4604 / 2108D59	4604 / 2108D59	2108D59-A	2108D59-B	L1658718	L1658718	L1658718	L1630961	L1630961	L1630961	4604 / 2108D59	4604 / 2108D59					
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab					
Sample Description	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation					
Sample Date	2021-08-16	2021-08-16	2021-08-16	2021-08-16	2021-08-16	2021-08-16	2021-08-16	2023-09-20	2023-09-20	2023-09-20	2023-06-28	2023-06-28	2023-06-28	2021-08-16	2021-08-16					
Analytical Parameters															Residential Soil Screening Level	Protection of Groundwater Screening Level	UNITS			
<b>TPH</b>																				
TPH Gasoline Range Organics	<50.0	<50.0	<50.0	<50.0	<50.0	NT	NT	NT	NT	NT	NT	NT	NT	<50.0	<50.0	500	mg/kg			
TPH Diesel Range Organics [C10-C28]	<50.0	<50.0	<50.0	<50.0	<50.0	NT	NT	NT	NT	NT	NT	NT	NT	<50.0	<50.0					
TPH Oil Range Organics [C28-C36]	<50.0	<50.0	<50.0	<50.0	<50.0	NT	NT	NT	NT	NT	NT	NT	NT	<50.0	<50.0					
TOTAL TPH	<150.0	<150.0	<150.0	<150.0	<150.0	NT	NT	NT	NT	NT	NT	NT	NT	<150.0	<150.0					
<b>BTEX</b>																				
Benzene	<0.050	<0.050	<0.050	<0.050	<0.050	NT	NT	NT	NT	NT	NT	NT	NT	<0.050	<0.050	1.2	0.0026	mg/kg		
Toluene	<0.050	<0.050	<0.050	<0.050	<0.050	NT	NT	NT	NT	NT	NT	NT	NT	<0.050	<0.050	490	0.69	mg/kg		
Ethylbenzene	<0.050	<0.050	<0.050	<0.050	<0.050	NT	NT	NT	NT	NT	NT	NT	NT	<0.050	<0.050	5.8	0.78	mg/kg		
Total Xylenes	<0.050	<0.050	<0.050	0.094	0.096	NT	NT	NT	NT	NT	NT	NT	NT	<0.050	<0.050	58	9.9	mg/kg		
<b>TMB</b>																				
1,2,4-Trimethylbenzene	<0.050	<0.050	<0.050	0.062	<0.050	NT	NT	NT	NT	NT	NT	NT	NT	<0.050	<0.050	30	0.0081	mg/kg		
1,3,5-Trimethylbenzene	<0.050	<0.050	<0.050	0.061	<0.050	NT	NT	NT	NT	NT	NT	NT	NT	<0.050	<0.050	27	0.0087	mg/kg		
<b>Metals</b>																				
Arsenic	8.0	6.8	12	6.0	37	7.7	5.9	NT	NT	NT	NT	NT	NT	6.7	6.9	0.88	0.29	mg/kg		
Barium	19.5	21.1	21.6	28.5	17.2	NT	NT	NT	NT	NT	NT	NT	NT	33.2	32.0	15000	82	mg/kg		
Cadmium	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	<1.0	<1.0	71	0.38	mg/kg		
Chromium (Hexavalent)	<0.30	<0.30	<0.30	<0.30	<0.30	NT	NT	NT	NT	NT	NT	NT	NT	<0.30	<0.30	0.3	0.00067	mg/kg		
Copper	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	3.11	1.47	3100	46	mg/kg		
Lead	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	3.84	1.93	400	14	mg/kg		
Nickel	<1.0	<1.0	<1.0	1.19	3.33	NT	NT	NT	NT	NT	NT	NT	NT	3.56	2.91	1500	26	mg/kg		
Selenium	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	<5.0	<5.0	390	0.26	mg/kg		
Silver	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	<5.0	<5.0	390	0.8	mg/kg		
Zinc	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	8.17	4.63	23000	370	mg/kg		
<b>SAR Metals Analysis</b>																				
Sodium Adsorption Ratio	4.82	6.51	4.08	3.16	5.84	NT	NT	3.93	2.22	2.68	0.0999	0.0656	0.205	3.05	4.85	< 6	ratio			
<b>Polynuclear Aromatic Hydrocarbons</b>																				
Acenaphthene	<1.5	<1.5	<1.5	<1.5	<1.5	NT	NT	NT	NT	NT	NT	NT	NT	<1.5	<1.5	360	0.55	mg/kg		
Anthracene	<1.5	<1.5	<1.5	<1.5	<1.5	NT	NT	NT	NT	NT	NT	NT	NT	<1.5	<1.5	1800	5.8	mg/kg		
Benzo(a)anthracene	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	<1.0	<1.0	1.1	0.011	mg/kg		
Benzo(a)pyrene	<0.11	<0.11	<0.11	<0.11	<0.11	NT	NT	NT	NT	NT	NT	NT	NT	<0.11	<0.11	0.11	0.24	mg/kg		
Benzo(b)fluoranthene	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	<1.0	<1.0	1.1	0.3	mg/kg		
Benzo(k)fluoranthene	<1.5	<1.5	<1.5	<1.5	<1.5	NT	NT	NT	NT	NT	NT	NT	NT	<1.5	<1.5	11	2.9	mg/kg		
Chrysene	<1.5	<1.5	<1.5	<1.5	<1.5	NT	NT	NT	NT	NT	NT	NT	NT	<1.5	<1.5	110	9	mg/kg		
Dibenz(a,h)anthracene	<0.10	<0.10	<0.10	<0.10	<0.10	NT	NT	NT	NT	NT	NT	NT	NT	<0.10	<0.10	0.11	0.096	mg/kg		
Fluoranthene	<1.5	<1.5	<1.5	<1.5	<1.5	NT	NT	NT	NT	NT	NT	NT	NT	<1.5	<1.5	240	8.9	mg/kg		
Fluorene	<1.5	<1.5	<1.5	<1.5	<1.5	NT	NT	NT	NT	NT	NT	NT	NT	<1.5	<1.5	240	0.54	mg/kg		
Indeno(1,2,3-cd)pyrene	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	<1.0	<1.0	1.1	0.98	mg/kg		
1-Methylnaphthalene	<1.5	<1.5	<1.5	<1.5	<1.5	NT	NT	NT	NT	NT	NT	NT	NT	<1.5	<1.5	18	0.006	mg/kg		
2-Methylnaphthalene	<1.5	<1.5	<1.5	<1.5	<1.5	NT	NT	NT	NT	NT	NT	NT	NT	<1.5	<1.5	24	0.019	mg/kg		
Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	<1.0	<1.0	2	0.0038	mg/kg		
Pyrene	<1.5	<1.5	<1.5	<1.5	<1.5	NT	NT	NT	NT	NT	NT	NT	NT	<1.5	<1.5	180	1.3	mg/kg		
<b>General Chemistry</b>																				
Boron (Hot water Soluble)	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	NT	NT	NT	NT	NT	NT	<2.0	<2.0	< 2	mg/L			
Specific Conductivity	0.860	2.21	0.804	0.688	1.68	NT	NT	3.550	0.222	0.730	NT	NT	NT	1.78	1.47	< 4	mmhos/cm			
pH (TB Qualifier)	8.1	8.0	8.3	8.5	7.7	NT	NT	NT	NT	NT	8.36	8.15	8.19	7.5	7.5	6-8.3	su			

J - indicates an estimated value  
 Ts - Samples received past/ too close to holding time expiration  
 NA - not applicable  
 NT - parameter was not tested  
 mg/kg - milligrams per kilogram  
 mg/L - milligrams per liter  
 mmhos/cm - millimhos per centimeter  
 mv - millivolts  
 su - standard units

Over COGCC Table 915-1 concentration levels but under BACKGROUND level  
 Over COGCC Table 915-1 concentration levels and not within BACKGROUND level  
 Over COGCC Table 915-1 concentration levels

# FIGURES

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**LEGEND**

- Well Locat on
- Background Sample
- Boring Locat on
- Facility
- Spill Origin
- Soil Sample Locat on
- Excavat on

0 40 80  
ft  
1 inch = 40 ft

2

Project No: 022-066
Map By: NDB
Date: 12/7/2023

**B8E Site Diagram**  
 Spill ID 470378  
 Summit Midstream  
 NWNE, Section 8, T7S R92W, 6th PM  
 Garfield County, Colorado

330 Grand Avenue, Unit C  
 Grand Junction, CO 81501  
 970-549-1015

Figure 1
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# BORING LOGS

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# OPERATOR KNOWLEDGE STATEMENT

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**B8E Pipeline Leak (Spill #480378)**  
**Operator Knowledge - Produced Water Analysis**

Grand River Gathering LLC (“GRG”) operates gathering lines that receive natural gas from Caerus’ Piceance operations. The B8E spill occurred on one of GRG’s gathering lines, transporting natural gas with entrained produced water that enters the pipeline from the Caerus B8E well pad upstream of the pipeline. GRG has collected a produced water sample from the B8E storage tank to determine the pH and Arsenic of produced water being produced from the area. The produced water sample results are outlined below:

Sample Name	Sample Date	Sample Type	pH	Arsenic
20230713-B8E-PW	07/13/2023	Tank	7.49	<0.0100

The Operator recognizes that the presumable source for impacts at this location would be associated with produced water that may be entrained in the natural gas transported in the pipeline. Based on the laboratory analytical results of a produced water sample collected from the B8E tank storage, Summit believes that pH and Arsenic exceedances found in the remediation excavation are not due to natural gas pipeline transportation but are rather naturally occurring background concentrations within the area.

**Entrada Consulting Group**

Sample Delivery Group: L1635667  
Samples Received: 07/14/2023  
Project Number: 022-066  
Description: B8E Produced Water

Report To: Stuart Hall  
330 Grand Avenue  
Suite C  
Grand Junction, CO 81501

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](http://www.pacenational.com)

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# SAMPLE SUMMARY

20230713-B8E-PW L1635667-01 WW

Collected by: C. Cox  
 Collected date/time: 07/13/23 08:45  
 Received date/time: 07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500H+ B-2011	WG2095577	1	07/17/23 10:46	07/17/23 10:46	SJA	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2096568	1	07/19/23 15:30	07/24/23 20:19	ZSA	Mt. Juliet, TN

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

# 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

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.49	<u>T8</u>	1	07/17/2023 10:46	<a href="#">WG2095577</a>

Sample Narrative:

L1635667-01 WG2095577: 7.49 at 22.1C

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	ND		0.0100	1	07/24/2023 20:19	<a href="#">WG2096568</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1635486-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1635486-04 07/17/23 10:46 • (DUP) R3949268-2 07/17/23 10:46

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	1.29	1.29	1	0.000		1

Sample Narrative:

OS: 1.29 at 21.4C  
 DUP: 1.29 at 21.4C

L1635669-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635669-01 07/17/23 10:46 • (DUP) R3949268-3 07/17/23 10:46

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.55	6.56	1	0.153		1

Sample Narrative:

OS: 6.55 at 21.6C  
 DUP: 6.56 at 21.6C

Laboratory Control Sample (LCS)

(LCS) R3949268-1 07/17/23 10:46

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 21.6C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3952265-1 07/24/23 19:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Arsenic	U		0.00645	0.0100

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3952265-2 07/24/23 19:34

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Arsenic	1.00	1.08	108	85.0-115	

<sup>4</sup>Cn

<sup>5</sup>Sr

L1635676-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635676-01 07/24/23 19:37 • (MS) R3952265-4 07/24/23 19:44 • (MSD) R3952265-5 07/24/23 19:47

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Arsenic	1.00	ND	1.29	1.34	129	134	1	70.0-130		J5	3.82	20

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

L1635691-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635691-01 07/24/23 19:50 • (MS) R3952265-6 07/24/23 19:52 • (MSD) R3952265-7 07/24/23 19:55

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Arsenic	1.00	ND	1.12	1.13	112	113	1	70.0-130			0.665	20

<sup>9</sup>Sc

# GLOSSARY OF TERMS

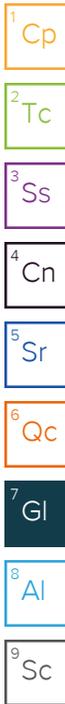
## Guide to Reading and Understanding Your Laboratory Report

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.
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
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



# SOIL ANALYTICAL REPORTS

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**Entrada Consulting Group**

Sample Delivery Group: L1630961  
Samples Received: 06/29/2023  
Project Number:  
Description: Summit B8E Backgrounds

Report To: Tim Dobranksy  
330 Grand Avenue  
Suite C  
Grand Junction, CO 81501

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](http://www.pacenational.com)

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<b>Sr: Sample Results</b>	5	<sup>3</sup> Ss
B8E-BG-SS1 @1' L1630961-01	5	
B8E-BG-SS2 @1' L1630961-02	6	<sup>4</sup> Cn
B8E-BG-SS3 @1' L1630961-03	7	<sup>5</sup> Sr
<b>Qc: Quality Control Summary</b>	8	
Wet Chemistry by Method 9045D	8	<sup>6</sup> Qc
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<b>Sc: Sample Chain of Custody</b>	11	<sup>9</sup> Sc

# SAMPLE SUMMARY

## B8E-BG-SS1 @1' L1630961-01 Solid

Collected by MS      Collected date/time 06/28/23 10:50      Received date/time 06/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2087305	1	07/07/23 02:16	07/07/23 02:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2088815	1	07/03/23 12:00	07/03/23 15:00	BJM	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

## B8E-BG-SS2 @1' L1630961-02 Solid

Collected by MS      Collected date/time 06/28/23 11:00      Received date/time 06/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2087305	1	07/07/23 02:19	07/07/23 02:19	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2088815	1	07/03/23 12:00	07/03/23 15:00	BJM	Mt. Juliet, TN

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

## B8E-BG-SS3 @1' L1630961-03 Solid

Collected by MS      Collected date/time 06/28/23 11:10      Received date/time 06/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2087305	1	07/07/23 02:27	07/07/23 02:27	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2088815	1	07/03/23 12:00	07/03/23 15:00	BJM	Mt. Juliet, TN

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# 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

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0999		1	07/07/2023 02:16	WG2087305

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.36	<u>T8</u>	1	07/03/2023 15:00	<a href="#">WG2088815</a>

Sample Narrative:

L1630961-01 WG2088815: 8.36 at 23.5C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0656		1	07/07/2023 02:19	WG2087305

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.15	<u>T8</u>	1	07/03/2023 15:00	<a href="#">WG2088815</a>

Sample Narrative:

L1630961-02 WG2088815: 8.15 at 23.6C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.205		1	07/07/2023 02:27	WG2087305

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.19	<u>T8</u>	1	07/03/2023 15:00	<a href="#">WG2088815</a>

Sample Narrative:

L1630961-03 WG2088815: 8.19 at 23.9C

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

L1630954-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1630954-05 07/03/23 15:00 • (DUP) R3944277-2 07/03/23 15:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	8.54	8.55	1	0.117		1

Sample Narrative:

OS: 8.54 at 24C

DUP: 8.55 at 24C

L1631415-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1631415-03 07/03/23 15:00 • (DUP) R3944277-3 07/03/23 15:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	8.51	8.53	1	0.235		1

Sample Narrative:

OS: 8.51 at 23.4C

DUP: 8.53 at 23.2C

Laboratory Control Sample (LCS)

(LCS) R3944277-1 07/03/23 15:00

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

Sample Narrative:

LCS: 10 at 22.9C

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.

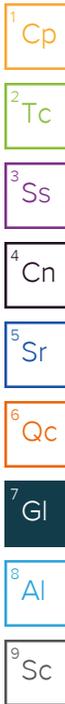
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

### Abbreviations and Definitions

Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
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

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





## Entrada Consulting Group

Sample Delivery Group: L1658718  
Samples Received: 09/22/2023  
Project Number:  
Description: B8E Gathering Line Borings

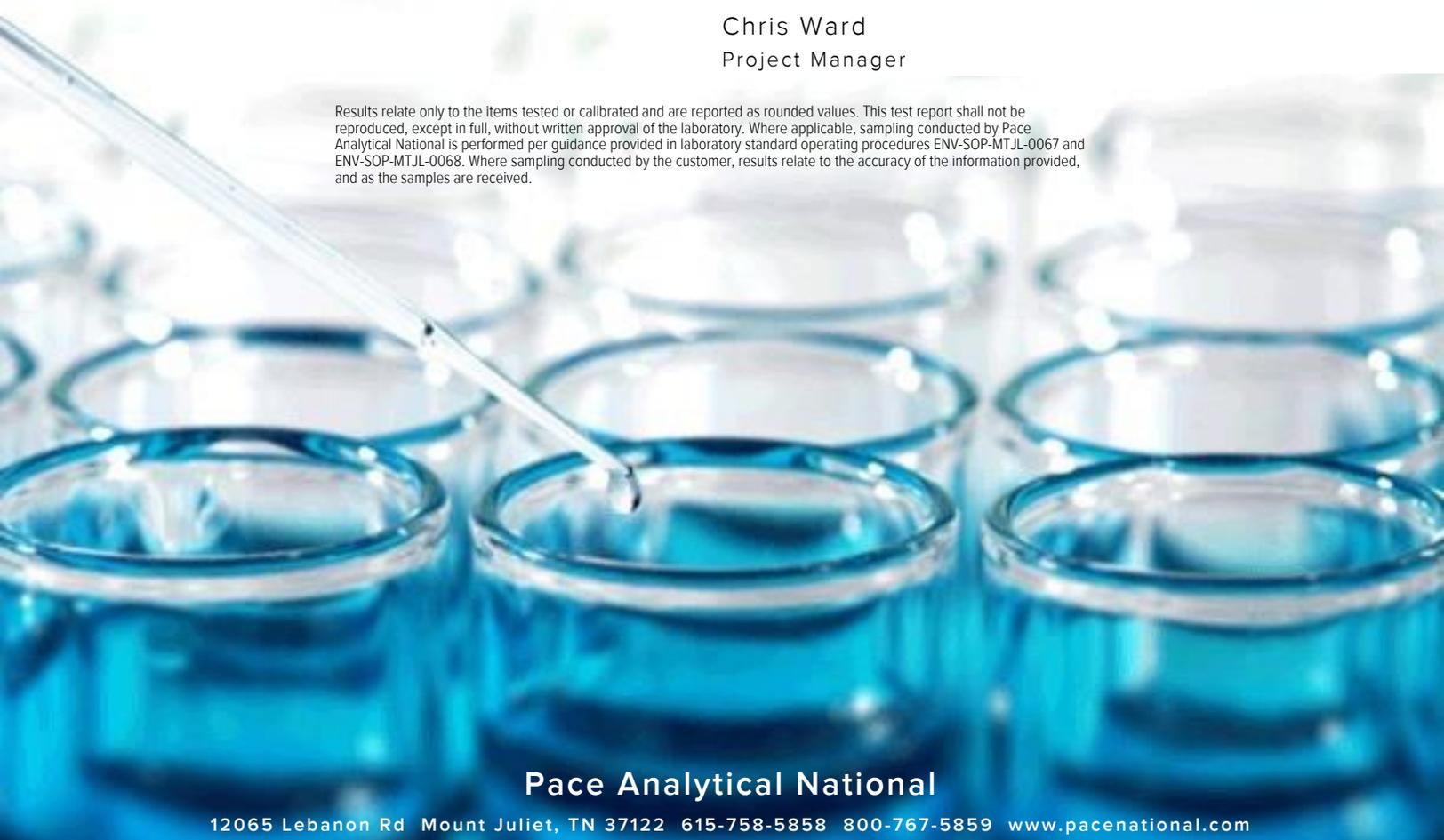
Report To: Stuart Hall  
330 Grand Avenue  
Suite C  
Grand Junction, CO 81501

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](http://www.pacenational.com)

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SB01@10 L1658718-01	5	
SB01@15 L1658718-02	6	<sup>4</sup> Cn
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<b>Sc: Sample Chain of Custody</b>	12	<sup>8</sup> Al
		<sup>9</sup> Sc

# SAMPLE SUMMARY

## SB01@10 L1658718-01 Solid

Collected by: C. Mace  
 Collected date/time: 09/20/23 09:30  
 Received date/time: 09/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2141397	1	10/02/23 10:23	10/02/23 10:23	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2140526	1	09/27/23 16:00	09/28/23 08:00	NTG	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

## SB01@15 L1658718-02 Solid

Collected by: C. Mace  
 Collected date/time: 09/20/23 09:45  
 Received date/time: 09/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2141397	1	10/02/23 10:26	10/02/23 10:26	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2140533	1	09/28/23 09:30	09/28/23 13:50	NTG	Mt. Juliet, TN

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

## SB01@20 L1658718-03 Solid

Collected by: C. Mace  
 Collected date/time: 09/20/23 10:00  
 Received date/time: 09/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2141397	1	10/02/23 10:35	10/02/23 10:35	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2140533	1	09/28/23 09:30	09/28/23 13:50	NTG	Mt. Juliet, TN

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# 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

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.93		1	10/02/2023 10:23	WG2141397

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	3550		10.0	1	09/28/2023 08:00	<a href="#">WG2140526</a>

Sample Narrative:

L1658718-01 WG2140526: at 25C

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.22		1	10/02/2023 10:26	WG2141397

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	222		10.0	1	09/28/2023 13:50	<a href="#">WG2140533</a>

Sample Narrative:

L1658718-02 WG2140533: at 25C

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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.68		1	10/02/2023 10:35	WG2141397

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	730		10.0	1	09/28/2023 13:50	<a href="#">WG2140533</a>

Sample Narrative:

L1658718-03 WG2140533: at 25C

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

Method Blank (MB)

(MB) R3978710-1 09/28/23 08:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1658718-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1658718-01 09/28/23 08:00 • (DUP) R3978710-3 09/28/23 08:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	3550	3530	1	0.565		20

Sample Narrative:

OS: at 25C  
DUP: at 25C

L1658786-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1658786-02 09/28/23 08:00 • (DUP) R3978710-4 09/28/23 08:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	160	161	1	1.06		20

Sample Narrative:

OS: at 25C  
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3978710-2 09/28/23 08:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Specific Conductance	732	715	97.7	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R3978982-1 09/28/23 13:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1658677-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1658677-13 09/28/23 13:50 • (DUP) R3978982-3 09/28/23 13:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	83.5	84.2	1	0.835		20

Sample Narrative:

OS: at 25C  
DUP: at 25C

L1658883-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1658883-02 09/28/23 13:50 • (DUP) R3978982-4 09/28/23 13:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	3870	3860	1	0.259		20

Sample Narrative:

OS: at 25C  
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3978982-2 09/28/23 13:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Specific Conductance	732	711	97.1	85.0-115	

Sample Narrative:

LCS: at 25C



# GLOSSARY OF TERMS

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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.

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### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

# 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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Company Name/Address: Entrada Consulting Group  330 Grand Avenue, Unit C Grand Junction, CO 81503		Billing Information: Same as left.		Analysis / Container / Preservative		Chain of Custody Page ___ of ___	
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12065 Lebanon Rd Mount Juliet, TN 37122  
 Phone: 615-758-5858 Alt: 800-767-5859  
 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>

Report to: Stuart Hall	Email To: shall@entradainc.com
Project Description: B8E Gathering Line Borings	City/State Collected: CO
	Please Circle: PT MT CT ET

Phone: 1 (970) 712-7329	Client Project #	Lab Project #
Collected by (print): C. Mace	Site/Facility ID #	P.O. #
Collected by (signature): <i>cm</i>	<b>Rush?</b> (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day	Quote #  Date Results Needed
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		No. of Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TABLE 915 GRO/DRO/ORO	TABLE 915 Metals	TABLE 915 VOCs	TABLE 915 pH, SPCON, SAR	TABLE 915 PAHs	TABLE 915 SPCON, SAR
SB01@10	Grab	SS	15-17'	2023-09-20	0930	2						X
SB01@15	Grab	SS	20-22'	2023-09-20	0945	2						X
SB01@20	Grab	SS	25-27'	2023-09-20	1000	2						X

SDG # **L1658718**  
**G063**

Acctnum:  
 Template:  
 Prelogin:  
 PM:  
 PB:

Shipped Via:  
 Remarks Sample # (lab only)

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

Remarks:

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **6529 5542 2122**

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

Relinquished by: (Signature) <i>cm</i>	Date: 20230920	Time: 1815	Received by: (Signature) <i>[Signature]</i>	9/21	Trip Blank Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	HCL/MeOH TBR
Relinquished by: (Signature) <i>[Signature]</i>	Date: 9/21/23	Time: 1700	Received by: (Signature)		Temp: °C ORA8	Bottles Received: 2.6+0.26
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>		Date: 9-22-23	Time: 9:26
					Hold:	Condition: NCF <input checked="" type="checkbox"/> OK