

Entrada Consulting Group

Sample Delivery Group: L1623631
Samples Received: 06/07/2023
Project Number:
Description: Summit OD11 Backgrounds

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

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SAMPLE SUMMARY

OD11-BG-SS1 @ 1' L1623631-01 Solid

Collected by MS Collected date/time 06/06/23 10:30 Received date/time 06/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2073705	1	06/13/23 13:31	06/13/23 13:31	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2073787	1	06/08/23 09:03	06/08/23 13:20	EPW	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

OD11-BG-SS2 @ 1' L1623631-02 Solid

Collected by MS Collected date/time 06/06/23 10:40 Received date/time 06/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2073705	1	06/13/23 13:33	06/13/23 13:33	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2073787	1	06/08/23 09:03	06/08/23 13:20	EPW	Mt. Juliet, TN

OD11-BG-SS3 @ 1' L1623631-03 Solid

Collected by MS Collected date/time 06/06/23 10:50 Received date/time 06/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2073705	1	06/13/23 13:36	06/13/23 13:36	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2073787	1	06/08/23 09:03	06/08/23 13:20	EPW	Mt. Juliet, TN

OD11-BG-SS4 @ 1' L1623631-04 Solid

Collected by MS Collected date/time 06/06/23 11:00 Received date/time 06/07/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2073705	1	06/13/23 13:44	06/13/23 13:44	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2073787	1	06/08/23 09:06	06/08/23 13:20	EPW	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

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0269		1	06/13/2023 13:31	WG2073705

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.88	<u>T8</u>	1	06/08/2023 13:20	WG2073787

Sample Narrative:

L1623631-01 WG2073787: 7.88 at 20.4C

- 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	0.0320		1	06/13/2023 13:33	WG2073705

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.85	<u>T8</u>	1	06/08/2023 13:20	WG2073787

Sample Narrative:

L1623631-02 WG2073787: 7.85 at 19.8C

- 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	0.0210		1	06/13/2023 13:36	WG2073705

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.99	<u>T8</u>	1	06/08/2023 13:20	WG2073787

Sample Narrative:

L1623631-03 WG2073787: 7.99 at 19.9C

- 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	0.0213		1	06/13/2023 13:44	WG2073705

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.04	<u>T8</u>	1	06/08/2023 13:20	WG2073787

Sample Narrative:

L1623631-04 WG2073787: 8.04 at 19.6C

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

L1623620-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1623620-06 06/08/23 13:20 • (DUP) R3934417-2 06/08/23 13:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	7.83	7.86	1	0.382		1

Sample Narrative:

OS: 7.83 at 20.1C

DUP: 7.86 at 20C

L1623631-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1623631-04 06/08/23 13:20 • (DUP) R3934417-3 06/08/23 13:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
pH	8.04	8.07	1	0.372		1

Sample Narrative:

OS: 8.04 at 19.6C

DUP: 8.07 at 20C

Laboratory Control Sample (LCS)

(LCS) R3934417-1 06/08/23 13:20

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

Sample Narrative:

LCS: 10.02 at 19.9C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

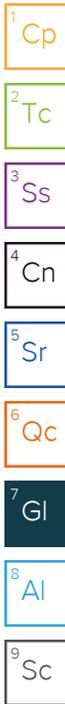
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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.
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ACCREDITATIONS & LOCATIONS

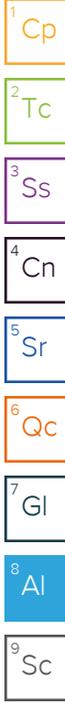
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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: Entrada Consulting Group 330 Grand Ave, Unit C Grand Junction, CO 81501		Billing Information: Entrada Consulting Group 330 Grand Ave, Unit C Grand Junction, CO 81501		Pres Chk	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: Reed Johnson/Stuart Hall	Email To: rjohnson@entradainc.com, shall@entradainc.com	
Project Description: Summit OD11 Backgrounds	City/State Collected: CO	Please Circle: PT MT CT ET

Phone: 720-253-2940	Client Project #	Lab Project #
Collected by (print): M. Schladeger	Site/Facility ID #	P.O. #
Collected by (signature): MS	Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input checked="" 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 #
Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/>	Date Results Needed	

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs												
OD11-BG-SS1 @ 1'	Grab	SS	1'	6-6-23	1030	2	X											
OD11-BG-SS2 @ 1'	Grab	SS	1'	6-6-23	1040	2	X											
OD11-BG-SS3 @ 1'	Grab	SS	1'	6-6-23	1060	2	X											
OD11-BG-SS4 @ 1'	Grab	SS	1'	6-6-23	1100	2	X											

SAR/PH

SDG # 462831
H032

Acctnum:
 Template:
 Prelogin:
 PM:
 PB:
 Shipped Via:

Remarks	Sample # (lab only)
	01
	02
	03
	04

* 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

pH _____ Temp _____
 Flow _____ Other _____

Tracking # 6126 6537 3957

Sample Receipt Checklist

COC Seal Present/Intact: NP 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 Headpace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature) MADD	Date: 6-6-23	Time: 1400	Received by: (Signature) [Signature]	Trip Blank Received: Yes/No HCL/MeOH TBR
Relinquished by: (Signature) [Signature]	Date: 6/6/23	Time: 1700	Received by: (Signature) [Signature]	Temp: <u>25.1°C</u> Bottles Received: <u>3.740 = 3.7 7</u>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [Signature]	Date: <u>6/7/23</u> Time: <u>0900</u>

Hold: Condition: NG / OK

6/7/23 - NCF L1623631 ENTCONGJCO

R5

Time estimate: oh

Time spent: oh

Members

-  **Matthew Shacklock** (responsible)
-  **Chris Ward**

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

Comments

- Matthew Shacklock* 7 June 2023 4:33 PM
1 of 2 8oz containers received broken. 2oz split from remaining 8oz.
- Chris Ward* 7 June 2023 4:37 PM
Please proceed with remaining volume
- Matthew Shacklock* 7 June 2023 4:43 PM
Done