



ANALYTICAL REPORT

September 01, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Anschutz Exploration Corporation

Sample Delivery Group: L1648717
Samples Received: 07/14/2023
Project Number: 315979
Description: AECO05-Pinyon Ridge Fed C-1W

Report To: Schuyler Hamilton
555 17th Street Suite 2400
Denver, CO 80202

Entire Report Reviewed By:

Chris Ward

Chris Ward
Project Manager

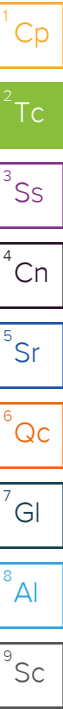
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory 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

230712-PR_C-1W_SB14@12-14 L1648717-01 Solid

Collected by
Alex Slorby

Collected date/time
07/12/23 13:45

Received date/time
07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2119912	1	08/24/23 00:20	08/25/23 11:57	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2121252	1	08/26/23 15:00	08/26/23 15:45	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2121183	1	08/26/23 07:25	08/26/23 12:18	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2124219	1	08/31/23 16:01	09/01/23 10:05	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2123590	20	08/30/23 12:17	08/30/23 23:41	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2123590	5	08/30/23 12:17	08/30/23 22:09	LD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

230712-PR_C-1W_SB14@14-18 L1648717-02 Solid

Collected by
Alex Slorby

Collected date/time
07/12/23 15:00

Received date/time
07/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2119912	1	08/24/23 00:20	08/25/23 12:06	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2121252	1	08/26/23 15:00	08/26/23 15:45	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2121183	1	08/26/23 07:25	08/26/23 12:18	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2124219	1	08/31/23 16:01	09/01/23 10:07	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2123590	5	08/30/23 12:17	08/30/23 22:49	LD	Mt. Juliet, TN

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

Anschutz Exploration Corporation

PROJECT:

315979

SDG:

L1648717

DATE/TIME:

09/01/23 15:32

PAGE:

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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



Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	08/25/2023 11:57	WG2119912

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.09	T8	1	08/26/2023 15:45	WG2121252

Sample Narrative:

L1648717-01 WG2121252: 8.09 at 23.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	<u>Qualifier</u>	RDL umhos/cm	Dilution	Analysis date / time	<u>Batch</u>
Specific Conductance	1030	T8	10.0	1	08/26/2023 12:18	WG2121183

Sample Narrative:

L1648717-01 WG2121183: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.462		0.0167	0.200	1	09/01/2023 10:05	WG2124219

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.05		0.100	1.00	5	08/30/2023 22:09	WG2123590
Barium	213		0.608	10.0	20	08/30/2023 23:41	WG2123590
Cadmium	0.452	J	0.0855	1.00	5	08/30/2023 22:09	WG2123590
Copper	17.8		0.132	5.00	5	08/30/2023 22:09	WG2123590
Lead	11.3		0.0990	2.00	5	08/30/2023 22:09	WG2123590
Nickel	15.4		0.197	2.50	5	08/30/2023 22:09	WG2123590
Selenium	0.733	J O1	0.180	2.50	5	08/30/2023 22:09	WG2123590
Silver	0.112	J	0.0865	0.500	5	08/30/2023 22:09	WG2123590
Zinc	53.5	O1	0.740	25.0	5	08/30/2023 22:09	WG2123590

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.319	J	0.255	1.00	1	08/25/2023 12:06	WG2119912

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.19	T8	1	08/26/2023 15:45	WG2121252

Sample Narrative:

L1648717-02 WG2121252: 8.19 at 23.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1220	T8	10.0	1	08/26/2023 12:18	WG2121183

Sample Narrative:

L1648717-02 WG2121183: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.418		0.0167	0.200	1	09/01/2023 10:07	WG2124219

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.4		0.100	1.00	5	08/30/2023 22:49	WG2123590
Barium	69.0		0.152	2.50	5	08/30/2023 22:49	WG2123590
Cadmium	0.461	J	0.0855	1.00	5	08/30/2023 22:49	WG2123590
Copper	31.4		0.132	5.00	5	08/30/2023 22:49	WG2123590
Lead	15.8		0.0990	2.00	5	08/30/2023 22:49	WG2123590
Nickel	19.9		0.197	2.50	5	08/30/2023 22:49	WG2123590
Selenium	0.952	J	0.180	2.50	5	08/30/2023 22:49	WG2123590
Silver	0.177	J	0.0865	0.500	5	08/30/2023 22:49	WG2123590
Zinc	73.7		0.740	25.0	5	08/30/2023 22:49	WG2123590

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3965626-1 08/25/23 11:39

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1648779-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1648779-01 08/25/23 12:23 • (DUP) R3965626-3 08/25/23 12:32

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

L1648827-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1648827-01 08/25/23 15:31 • (DUP) R3965626-8 08/25/23 15:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3965626-2 08/25/23 11:48

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	11.0	110	80.0-120	

L1648784-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1648784-01 08/25/23 13:26 • (MS) R3965626-4 08/25/23 13:35 • (MSD) R3965626-5 08/25/23 13:44

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	21.8	22.8	109	114	1	75.0-125			4.45	20

L1648784-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1648784-01 08/25/23 13:26 • (MS) R3965626-6 08/25/23 13:53

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	638	U	1110	174	50	75.0-125	J5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1648647-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1648647-02 08/26/23 15:45 • (DUP) R3965795-2 08/26/23 15:45

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.30	7.36	1	0.819		1

Sample Narrative:

OS: 7.3 at 23.8C

DUP: 7.36 at 23.9C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1648785-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1648785-01 08/26/23 15:45 • (DUP) R3965795-3 08/26/23 15:45

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	pH	su		%		%
pH	8.02	8.02	1	0.000		1

Sample Narrative:

OS: 8.02 at 22.9C

DUP: 8.02 at 23.1C

Laboratory Control Sample (LCS)

(LCS) R3965795-1 08/26/23 15:45

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

Sample Narrative:

LCS: 10 at 23.6C

Method Blank (MB)

(MB) R3965763-1 08/26/23 12:18

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

L1649401-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1649401-04 08/26/23 12:18 • (DUP) R3965763-3 08/26/23 12:18

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	511	515	1	0.780		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1649406-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1649406-04 08/26/23 12:18 • (DUP) R3965763-4 08/26/23 12:18

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	186	185	1	0.647		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3965763-2 08/26/23 12:18

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	729	99.6	85.0-115	

Sample Narrative:

LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3968354-1 09/01/23 09:57

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3968354-2 09/01/23 09:59 • (LCSD) R3968354-3 09/01/23 10:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.05	1.06	105	106	80.0-120			0.990	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3967541-1 08/30/23 22:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3967541-2 08/30/23 22:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.5	96.5	80.0-120	
Barium	100	92.3	92.3	80.0-120	
Cadmium	100	95.6	95.6	80.0-120	
Copper	100	90.6	90.6	80.0-120	
Lead	100	91.6	91.6	80.0-120	
Nickel	100	95.0	95.0	80.0-120	
Selenium	100	99.7	99.7	80.0-120	
Silver	20.0	19.6	97.8	80.0-120	
Zinc	100	92.9	92.9	80.0-120	

L1648717-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1648717-01 08/30/23 22:09 • (MS) R3967541-5 08/30/23 22:19 • (MSD) R3967541-6 08/30/23 22:22

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	7.05	110	104	103	96.8	5	75.0-125			5.47	20
Barium	100	212	290	236	78.0	24.0	5	75.0-125	E	E J3 J6	20.6	20
Cadmium	100	0.452	112	103	112	102	5	75.0-125			8.53	20
Copper	100	17.8	122	110	104	91.8	5	75.0-125			10.9	20
Lead	100	11.3	119	109	108	97.7	5	75.0-125			8.78	20
Nickel	100	15.4	115	110	100	94.6	5	75.0-125			4.79	20
Selenium	100	0.733	118	107	118	106	5	75.0-125			10.1	20
Silver	20.0	0.112	23.0	20.7	115	103	5	75.0-125			10.5	20
Zinc	100	53.5	151	151	97.3	97.3	5	75.0-125			0.00285	20

1Cp

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8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
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.
J3	The associated batch QC was outside the established quality control range for precision.
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.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
T8	Sample(s) received past/too close to holding time expiration.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

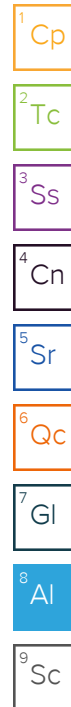
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.





CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or
MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VGA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:

Lab Sample # / Comments:

L16355 99 N
8/23/23

-01
-02
-03
-04
-05
-06
-07
-08
-09
-10 L16VB 717-01
-02

Company: Confluence Compliance Companies Billing Information: Info on file
Address: Info on file
Report To: Chris McKisson, remediation@confluence-cc.com Email To: Info on file
Copy To: same Site Collection Info/Address: NESE Sec. 21 3497W 40.212620/-108.276390
Customer Project Name/Number: AE005-Pinyon Ridge Fed C-1W(815979) State: 1 County/City: 1 Time Zone Collected: [] PT [] MT [] CT [] ET
Phone: ON File Site/Facility ID #: same as above Compliance Monitoring? [] Yes [] No
Email: ON File Purchase Order #: same as above DW PWS ID #: same as above
Collected By (print): Alex Storby Quote #: same as above DW Location Code: same as above
Collected By (signature): AS Turnaround Date Required: same as above Immediately Packed on Ice: [] Yes [] No
Sample Disposal: [] Dispose as appropriate [] Return [] Archive [] Hold Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day Field Filtered (if applicable): [] Yes [] No
(Expedite Charges Apply) Analysis: same as above

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns										
			Date	Time	Date	Time												
230712-PR-C1W-SB1104-8	SL		7/12	10:15				2	X	X	X							
230712-PR-C1W-SB1106-18	SL			10:35				2	X	X	X							
230712-PR-C1W-SB1204-8	SL			11:25				2	X	X	X							
230712-PR-C1W-SB1202-14	SL			11:40				2	X	X	X							
230712-PR-C1W-SB1304-8	SL			12:20				2	X	X	X							
230712-PR-C1W-SB1308-12	SL			12:30				2	X	X	X							
230712-PR-C1W-SB1405-8	SL			13:20				2	X	X	X							
230712-PR-C1W-SB1408-12	SL			13:30				2	X	X	X							
230712-PR-C1W-SB1402-14	SL			13:45				2	X	X	X							
230712-PR-C1W-SB1404-18	SL			15:00				2	X	X	X							

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used:

Lab Tracking #:

6426 8306 6694

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:

FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

L-094

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Acctnum:

Template:

Prelogin:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

PM:

PB:

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: oC

Cooler 1 Therm Corr. Factor: oC

Cooler 1 Corrected Temp: oC

Comments: GRAB

0.7 to 0.7

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s):

YES / NO

Page: 1

of: 2



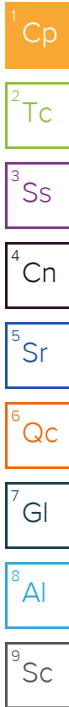
ANALYTICAL REPORT

August 09, 2023

Revised Report

Anschutz Exploration Corporation

Sample Delivery Group: L1635897
Samples Received: 07/15/2023
Project Number:
Description: Backgrounds
Site: PINYON RIDGE FEDERAL C-1W
Report To: Schuyler Hamilton
555 17th Street Suite 2400
Denver, CO 80202



Entire Report Reviewed By:

Chris Ward

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

SAMPLE SUMMARY

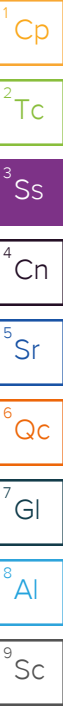
230713-PR_C-1W_SB18@4-8 L1635897-01 Solid

Collected by
Alex Slorby

Collected date/time
07/13/23 10:05

Received date/time
07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2096655	1	07/27/23 01:38	07/27/23 01:38	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2097129	1	07/18/23 23:13	07/19/23 12:26	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2097500	1	07/19/23 09:00	07/19/23 10:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2097533	1	07/19/23 12:00	07/20/23 09:30	EPW	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2096658	1	07/21/23 16:46	07/26/23 16:38	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2097070	5	07/18/23 16:19	07/21/23 20:04	JPD	Mt. Juliet, TN



230713-PR_C-1W_SB18@8-12 L1635897-02 Solid

Collected by
Alex Slorby

Collected date/time
07/13/23 10:20

Received date/time
07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2096655	1	07/27/23 01:46	07/27/23 01:46	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2097129	1	07/18/23 23:13	07/19/23 12:31	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2097500	1	07/19/23 09:00	07/19/23 10:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2097533	1	07/19/23 12:00	07/20/23 09:30	EPW	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2096658	1	07/21/23 16:46	07/26/23 16:41	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2097070	5	07/18/23 16:19	07/21/23 20:07	JPD	Mt. Juliet, TN

230713-PR_C-1W_SB18@12-15 L1635897-03 Solid

Collected by
Alex Slorby

Collected date/time
07/13/23 10:30

Received date/time
07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2096655	1	07/27/23 01:49	07/27/23 01:49	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2097129	1	07/18/23 23:13	07/19/23 12:47	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2097500	1	07/19/23 09:00	07/19/23 10:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2097533	1	07/19/23 12:00	07/20/23 09:30	EPW	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2096658	1	07/21/23 16:46	07/26/23 16:44	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2097070	5	07/18/23 16:19	07/21/23 20:10	JPD	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.



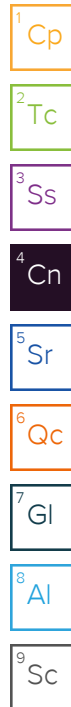
Chris Ward
Project Manager

Report Revision History

Level II Report - Version 1: 08/03/23 15:25

Project Narrative

Report reissued 8/09 for corrected sample IDs



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	12.5		1	07/27/2023 01:38	WG2096655

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.303	J	0.255	1.00	1	07/19/2023 12:26	WG2097129

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.16	T8	1	07/19/2023 10:30	WG2097500

Sample Narrative:
L1635897-01 WG2097500: 8.16 at 20.6C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	6820		10.0	1	07/20/2023 09:30	WG2097533

Sample Narrative:
L1635897-01 WG2097533: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.17		0.0167	0.200	1	07/26/2023 16:38	WG2096658

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.12		0.100	1.00	5	07/21/2023 20:04	WG2097070
Barium	122		0.152	2.50	5	07/21/2023 20:04	WG2097070
Cadmium	0.248	J	0.0855	1.00	5	07/21/2023 20:04	WG2097070
Copper	16.5		0.132	5.00	5	07/21/2023 20:04	WG2097070
Lead	9.45		0.0990	2.00	5	07/21/2023 20:04	WG2097070
Nickel	11.7		0.197	2.50	5	07/21/2023 20:04	WG2097070
Selenium	1.69	J	0.180	2.50	5	07/21/2023 20:04	WG2097070
Silver	U		0.0865	0.500	5	07/21/2023 20:04	WG2097070
Zinc	44.7		0.740	25.0	5	07/21/2023 20:04	WG2097070

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.15		1	07/27/2023 01:46	WG2096655

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.453	J	0.255	1.00	1	07/19/2023 12:31	WG2097129

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.97	T8	1	07/19/2023 10:30	WG2097500

Sample Narrative:
L1635897-02 WG2097500: 7.97 at 20.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	8510		10.0	1	07/20/2023 09:30	WG2097533

Sample Narrative:
L1635897-02 WG2097533: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.808		0.0167	0.200	1	07/26/2023 16:41	WG2096658

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	14.3		0.100	1.00	5	07/21/2023 20:07	WG2097070
Barium	142		0.152	2.50	5	07/21/2023 20:07	WG2097070
Cadmium	0.651	J	0.0855	1.00	5	07/21/2023 20:07	WG2097070
Copper	19.6		0.132	5.00	5	07/21/2023 20:07	WG2097070
Lead	12.3		0.0990	2.00	5	07/21/2023 20:07	WG2097070
Nickel	11.5		0.197	2.50	5	07/21/2023 20:07	WG2097070
Selenium	0.996	J	0.180	2.50	5	07/21/2023 20:07	WG2097070
Silver	0.109	J	0.0865	0.500	5	07/21/2023 20:07	WG2097070
Zinc	50.3		0.740	25.0	5	07/21/2023 20:07	WG2097070

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	18.8		1	07/27/2023 01:49	WG2096655

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.309	J	0.255	1.00	1	07/19/2023 12:47	WG2097129

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.79	T8	1	07/19/2023 10:30	WG2097500

Sample Narrative:

L1635897-03 WG2097500: 8.79 at 21.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2740		10.0	1	07/20/2023 09:30	WG2097533

Sample Narrative:

L1635897-03 WG2097533: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.460		0.0167	0.200	1	07/26/2023 16:44	WG2096658

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	14.2		0.100	1.00	5	07/21/2023 20:10	WG2097070
Barium	37.1		0.152	2.50	5	07/21/2023 20:10	WG2097070
Cadmium	U		0.0855	1.00	5	07/21/2023 20:10	WG2097070
Copper	13.0		0.132	5.00	5	07/21/2023 20:10	WG2097070
Lead	8.86		0.0990	2.00	5	07/21/2023 20:10	WG2097070
Nickel	3.89		0.197	2.50	5	07/21/2023 20:10	WG2097070
Selenium	1.81	J	0.180	2.50	5	07/21/2023 20:10	WG2097070
Silver	U		0.0865	0.500	5	07/21/2023 20:10	WG2097070
Zinc	52.4		0.740	25.0	5	07/21/2023 20:10	WG2097070

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3950249-1 07/19/23 10:40

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1635894-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1635894-04 07/19/23 12:11 • (DUP) R3950249-7 07/19/23 12:16

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

L1635930-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1635930-03 07/19/23 13:08 • (DUP) R3950249-8 07/19/23 13:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3950249-2 07/19/23 10:48

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	10.3	103	80.0-120	

L1635890-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635890-03 07/19/23 11:13 • (MS) R3950249-3 07/19/23 11:19 • (MSD) R3950249-4 07/19/23 11:24

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	18.6	19.1	92.8	95.6	1	75.0-125			2.98	20

L1635890-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1635890-03 07/19/23 11:13 • (MS) R3950249-5 07/19/23 11:29

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	643	U	676	105	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1635894-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635894-01 07/19/23 10:30 • (DUP) R3950157-2 07/19/23 10:30

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	pH	su		%		%
pH	8.00	8.03	1	0.374		1

Sample Narrative:

OS: 8 at 21C
DUP: 8.03 at 21.2C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1635943-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635943-01 07/19/23 10:30 • (DUP) R3950157-3 07/19/23 10:30

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	pH	su		%		%
pH	8.46	8.43	1	0.355		1

Sample Narrative:

OS: 8.46 at 20.5C
DUP: 8.43 at 20.7C

Laboratory Control Sample (LCS)

(LCS) R3950157-1 07/19/23 10:30

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

Sample Narrative:

LCS: 10.01 at 21.3C

Method Blank (MB)

(MB) R3950612-1 07/20/23 09:30

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

L1635894-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635894-01 07/20/23 09:30 • (DUP) R3950612-3 07/20/23 09:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	197	191	1	2.83		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1635943-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1635943-02 07/20/23 09:30 • (DUP) R3950612-4 07/20/23 09:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	204	200	1	1.88		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3950612-2 07/20/23 09:30

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	727	99.3	85.0-115	

Sample Narrative:

LCS: at 25C

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3953306-1 07/26/23 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3953306-2 07/26/23 16:04 • (LCSD) R3953306-3 07/26/23 16:07

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 %
Hot Water Sol. Boron	1.00	1.10	1.12	110	112	80.0-120			1.45	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3951471-1 07/21/23 18:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Copper	0.178	U	0.133	5.00
Lead	0.115	U	0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3951471-2 07/21/23 18:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	89.1	89.1	80.0-120	
Barium	100	85.1	85.1	80.0-120	
Cadmium	100	86.6	86.6	80.0-120	
Copper	100	81.3	81.3	80.0-120	
Lead	100	84.2	84.2	80.0-120	
Nickel	100	87.4	87.4	80.0-120	
Selenium	100	92.6	92.6	80.0-120	
Silver	20.0	17.9	89.3	80.0-120	
Zinc	100	86.5	86.5	80.0-120	

L1635890-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635890-01 07/21/23 18:49 • (MS) R3951471-5 07/21/23 18:59 • (MSD) R3951471-6 07/21/23 19:02

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.13	84.6	84.2	81.4	81.1	5	75.0-125			0.435	20
Barium	100	1230	1530	1230	295	0.340	5	75.0-125	E V	E J3 V	21.4	20
Cadmium	100	0.184	84.4	86.3	84.2	86.1	5	75.0-125			2.21	20
Copper	100	9.13	86.2	87.9	77.0	78.8	5	75.0-125			2.04	20
Lead	100	5.71	87.5	88.2	81.8	82.5	5	75.0-125			0.866	20
Nickel	100	13.7	87.1	91.3	73.5	77.7	5	75.0-125	J6		4.71	20
Selenium	100	0.437	90.4	90.4	90.0	90.0	5	75.0-125			0.0393	20
Silver	20.0	U	17.7	17.9	88.5	89.7	5	75.0-125			1.34	20
Zinc	100	26.8	102	104	75.1	77.1	5	75.0-125			1.94	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
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.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

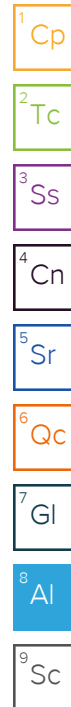
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



CHAIN-OF-CUSTODY Analytical Request Document

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>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: ~~Caelus Oil and Gas LLC~~ **Anshutz** Billing Information: Info on file

Address: Info on file

Report To: Chris McKisson Email To: chris.mckisson@confluence-cc.com

Copy To: remediation@confluence-cc.com Site Collection Info/Address:

Customer Project Name/Number: Backgrounds State: County/City: Time Zone Collected: CO / Rio Blanco [] PT [X] MT [] CT [] ET

Phone: Site/Facility ID #: Pinyon Ridge Federal C-1W Compliance Monitoring? [] Yes [X] No

Email: Quote #: DW PWS ID #: DW Location Code:

Collected By (print): Alex Slorby Turnaround Date Required: Standard Turnaround [X] Yes [] No

Collected By (signature): *Alex Slorby* Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day Field Filtered (if applicable): [] Yes [] No

Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [] Hold: Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
230713-PR_C-1W_SB18@4-8	SL	G	7/13/2023	1005				1	P
230713-PR_C-1W_SB18@8-12	SL	G	7/13/2023	1020				1	P
230713-PR_C-1W_SB18@12-15	SL	G	7/13/2023	1030				1	P

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

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

VOA Zero Headspace: ☒ Y ☐ N

Pres. Correct/Check: ☒ Y ☐ N

4.070 = 4.0

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace
MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Container Preservative Type ** Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses										Lab Profile/Line:	
EC, SAR, pH	Table 915-1 Metals	Boron - Hot Water Soluble	CR6IC							Lab Sample Receipt Checklist:	
										Custody Seals Present/Intact Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										Custody Signatures Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										Collector Signature Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										Bottles Intact Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										Correct Bottles Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										Sufficient Volume Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										Samples Received on Ice Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										VOA - Headspace Acceptable Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										USDA Regulated Soils Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										Samples in Holding Time Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										Residual Chlorine Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										Cl Strips:	
										Sample pH Acceptable Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										pH Strips:	
										Sulfide Present Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
										Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

L110355897
-01
-02
-03

Customer Remarks / Special Conditions / Possible Hazards: Please store all extra material for additional analysis.

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: °C

Cooler 1 Therm Corr. Factor: °C

Cooler 1 Corrected Temp: °C

Comments:

Relinquished by/Company: (Signature) *Alex Slorby* Date/Time: 7/14/2023 1600 Received by/Company: (Signature) Date/Time: MTJL LAB USE ONLY

Relinquished by/Company: (Signature) Date/Time: 7/14/2023 1700 Received by/Company: (Signature) Date/Time: 7.15.23

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: 0900

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): Page: YES / NO of:



ANALYTICAL REPORT

August 09, 2023

Revised Report

Anschutz Exploration Corporation

Sample Delivery Group: L1635908
Samples Received: 07/15/2023
Project Number:
Description: Backgrounds
Site: PINYON RIDGE FEDERAL C-1W
Report To: Schuyler Hamilton
555 17th Street Suite 2400
Denver, CO 80202

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Entire Report Reviewed By:

Chris Ward

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

ACCOUNT:

Anschutz Exploration Corporation

PROJECT:

SDG:

L1635908

DATE/TIME:

08/09/23 13:39

PAGE:

1 of 16

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230713-PR_C-1W_SB19@8-12 L1635908-02	6
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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

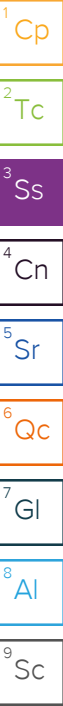
230713-PR_C-1W_SB19@4-8 L1635908-01 Solid

Collected by
Alex Slorby

Collected date/time
07/13/23 11:05

Received date/time
07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2096655	1	07/27/23 01:58	07/27/23 01:58	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2097140	1	07/18/23 23:10	07/19/23 09:44	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2097597	1	07/19/23 10:09	07/19/23 13:08	MCC	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2097561	1	07/19/23 11:40	07/19/23 15:43	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2096658	1	07/21/23 16:46	07/26/23 16:52	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2097351	5	07/19/23 09:59	07/22/23 13:13	JPD	Mt. Juliet, TN



230713-PR_C-1W_SB19@8-12 L1635908-02 Solid

Collected by
Alex Slorby

Collected date/time
07/13/23 11:10

Received date/time
07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2096655	1	07/27/23 02:00	07/27/23 02:00	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2097140	1	07/18/23 23:10	07/19/23 09:59	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2097597	1	07/19/23 10:09	07/19/23 13:08	MCC	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2097561	1	07/19/23 11:40	07/19/23 15:43	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2096658	1	07/21/23 16:46	07/26/23 16:55	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2097351	5	07/19/23 09:59	07/22/23 13:16	JPD	Mt. Juliet, TN

230713-PR_C-1W_SB19@12-15 L1635908-03 Solid

Collected by
Alex Slorby

Collected date/time
07/13/23 11:15

Received date/time
07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2096655	1	07/27/23 02:03	07/27/23 02:03	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2097140	1	07/18/23 23:10	07/19/23 10:25	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2097668	1	07/19/23 10:51	07/19/23 13:00	SJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2097561	1	07/19/23 11:40	07/19/23 15:43	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2096658	1	07/21/23 16:46	07/26/23 16:59	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2097351	5	07/19/23 09:59	07/22/23 13:27	JPD	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.



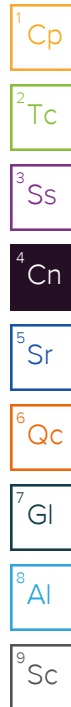
Chris Ward
Project Manager

Report Revision History

Level II Report - Version 1: 08/03/23 15:31

Project Narrative

Report reissued 8/09 for corrected sample IDs



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.46		1	07/27/2023 01:58	WG2096655

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.289	J	0.255	1.00	1	07/19/2023 09:44	WG2097140

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.03	T8	1	07/19/2023 13:08	WG2097597

Sample Narrative:

L1635908-01 WG2097597: 8.03 at 21.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1380		10.0	1	07/19/2023 15:43	WG2097561

Sample Narrative:

L1635908-01 WG2097561: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.515		0.0167	0.200	1	07/26/2023 16:52	WG2096658

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.90		0.100	1.00	5	07/22/2023 13:13	WG2097351
Barium	117		0.152	2.50	5	07/22/2023 13:13	WG2097351
Cadmium	0.284	J	0.0855	1.00	5	07/22/2023 13:13	WG2097351
Copper	20.6		0.132	5.00	5	07/22/2023 13:13	WG2097351
Lead	10.6		0.0990	2.00	5	07/22/2023 13:13	WG2097351
Nickel	14.7		0.197	2.50	5	07/22/2023 13:13	WG2097351
Selenium	0.612	J	0.180	2.50	5	07/22/2023 13:13	WG2097351
Silver	0.0987	J	0.0865	0.500	5	07/22/2023 13:13	WG2097351
Zinc	53.2		0.740	25.0	5	07/22/2023 13:13	WG2097351

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	3.07		1	07/27/2023 02:00	WG2096655

Wet Chemistry by Method 7199

	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Analyte							
Hexavalent Chromium	U	J5	0.255	1.00	1	07/19/2023 09:59	WG2097140

Wet Chemistry by Method 9045D

	Result su	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
pH	7.84	T8	1	07/19/2023 13:08	WG2097597

Sample Narrative:

L1635908-02 WG2097597: 7.84 at 21.2C

Wet Chemistry by Method 9050AMod

	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Analyte						
Specific Conductance	4560		10.0	1	07/19/2023 15:43	WG2097561

Sample Narrative:

L1635908-02 WG2097561: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Analyte							
Hot Water Sol. Boron	0.936		0.0167	0.200	1	07/26/2023 16:55	WG2096658

Metals (ICPMS) by Method 6020

	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Analyte							
Arsenic	4.75		0.100	1.00	5	07/22/2023 13:16	WG2097351
Barium	149		0.152	2.50	5	07/22/2023 13:16	WG2097351
Cadmium	0.488	J	0.0855	1.00	5	07/22/2023 13:16	WG2097351
Copper	13.5		0.132	5.00	5	07/22/2023 13:16	WG2097351
Lead	9.06		0.0990	2.00	5	07/22/2023 13:16	WG2097351
Nickel	12.1		0.197	2.50	5	07/22/2023 13:16	WG2097351
Selenium	0.669	J	0.180	2.50	5	07/22/2023 13:16	WG2097351
Silver	U		0.0865	0.500	5	07/22/2023 13:16	WG2097351
Zinc	40.1		0.740	25.0	5	07/22/2023 13:16	WG2097351

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.87		1	07/27/2023 02:03	WG2096655

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.268	J	0.255	1.00	1	07/19/2023 10:25	WG2097140

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.65	T8	1	07/19/2023 13:00	WG2097668

Sample Narrative:
L1635908-03 WG2097668: 7.65 at 21.7C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	4160		10.0	1	07/19/2023 15:43	WG2097561

Sample Narrative:
L1635908-03 WG2097561: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.802		0.0167	0.200	1	07/26/2023 16:59	WG2096658

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.15		0.100	1.00	5	07/22/2023 13:27	WG2097351
Barium	52.1		0.152	2.50	5	07/22/2023 13:27	WG2097351
Cadmium	0.273	J	0.0855	1.00	5	07/22/2023 13:27	WG2097351
Copper	16.9		0.132	5.00	5	07/22/2023 13:27	WG2097351
Lead	9.12		0.0990	2.00	5	07/22/2023 13:27	WG2097351
Nickel	15.1		0.197	2.50	5	07/22/2023 13:27	WG2097351
Selenium	0.504	J	0.180	2.50	5	07/22/2023 13:27	WG2097351
Silver	0.0912	J	0.0865	0.500	5	07/22/2023 13:27	WG2097351
Zinc	49.2		0.740	25.0	5	07/22/2023 13:27	WG2097351

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3950312-1 07/19/23 08:55

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1635893-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1635893-02 07/19/23 09:13 • (DUP) R3950312-3 07/19/23 09:18

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

L1635933-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1635933-05 07/19/23 11:17 • (DUP) R3950312-8 07/19/23 11:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3950312-2 07/19/23 09:02

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	10.8	108	80.0-120	

L1635908-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635908-02 07/19/23 09:59 • (MS) R3950312-4 07/19/23 10:04 • (MSD) R3950312-5 07/19/23 10:10

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	16.8	17.5	83.8	87.5	1	75.0-125			4.38	20

L1635908-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1635908-02 07/19/23 09:59 • (MS) R3950312-6 07/19/23 10:15

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	638	U	868	136	50	75.0-125	J5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1635907-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635907-01 07/19/23 13:08 • (DUP) R3950271-2 07/19/23 13:08

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.54	7.54	1	0.000		1

Sample Narrative:

OS: 7.54 at 21.7C

DUP: 7.54 at 21.5C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1636257-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1636257-02 07/19/23 13:08 • (DUP) R3950271-3 07/19/23 13:08

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.34	8.39	1	0.598		1

Sample Narrative:

OS: 8.34 at 21.5C

DUP: 8.39 at 21.3C

Laboratory Control Sample (LCS)

(LCS) R3950271-1 07/19/23 13:08

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

Sample Narrative:

LCS: 10.01 at 21.3C

L1635933-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635933-01 07/19/23 13:00 • (DUP) R3950290-2 07/19/23 13:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.64	7.66	1	0.261		1

Sample Narrative:

OS: 7.64 at 21.4C

DUP: 7.66 at 21.4C

Laboratory Control Sample (LCS)

(LCS) R3950290-1 07/19/23 13:00

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

Sample Narrative:

LCS: 10 at 21C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3950375-1 07/19/23 15:43

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

L1635893-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635893-01 07/19/23 15:43 • (DUP) R3950375-3 07/19/23 15:43

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1840	1810	1	1.37		20

Sample Narrative:
OS: at 25C
DUP: at 25C

L1636321-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1636321-02 07/19/23 15:43 • (DUP) R3950375-4 07/19/23 15:43

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	194	197	1	1.69		20

Sample Narrative:
OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3950375-2 07/19/23 15:43

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	727	99.3	85.0-115	

Sample Narrative:
LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3953306-1 07/26/23 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3953306-2 07/26/23 16:04 • (LCSD) R3953306-3 07/26/23 16:07

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 %
Hot Water Sol. Boron	1.00	1.10	1.12	110	112	80.0-120			1.45	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3951578-1 07/22/23 12:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Copper	U		0.133	5.00
Lead	0.526	U	0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	1.22	U	0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3951578-2 07/22/23 12:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	103	103	80.0-120	
Barium	100	100	100	80.0-120	
Cadmium	100	103	103	80.0-120	
Copper	100	94.9	94.9	80.0-120	
Lead	100	97.6	97.6	80.0-120	
Nickel	100	103	103	80.0-120	
Selenium	100	120	120	80.0-120	
Silver	20.0	21.6	108	80.0-120	
Zinc	100	99.6	99.6	80.0-120	

L1635893-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635893-05 07/22/23 12:53 • (MS) R3951578-5 07/22/23 13:03 • (MSD) R3951578-6 07/22/23 13:06

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.44	66.4	79.2	63.0	75.8	5	75.0-125	J6		17.6	20
Barium	100	29.6	111	121	81.3	91.6	5	75.0-125			8.90	20
Cadmium	100	0.621	84.3	101	83.7	101	5	75.0-125			18.3	20
Copper	100	15.8	92.6	107	76.8	91.0	5	75.0-125			14.3	20
Lead	100	19.0	102	111	82.7	92.0	5	75.0-125			8.73	20
Nickel	100	25.6	95.3	112	69.7	86.4	5	75.0-125	J6		16.2	20
Selenium	100	1.25	82.4	90.7	81.2	89.4	5	75.0-125			9.51	20
Silver	20.0	U	17.8	21.5	89.1	108	5	75.0-125			18.8	20
Zinc	100	133	196	209	63.0	76.0	5	75.0-125	J6		6.43	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

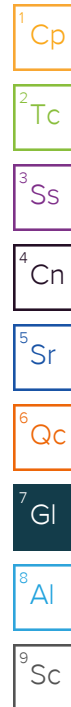
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

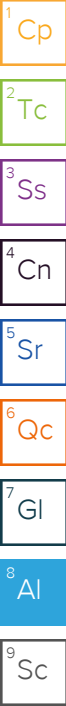
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



CHAIN-OF-CUSTODY Analytical Request Document

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>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **Cerus Oil and Gas LLC** *Anshutz* Billing Information:
Address: Info on file Info on file
Report To: Chris McKisson Email To: chris.mckisson@confluence-cc.com
Copy To: remediation@confluence-cc.com Site Collection Info/Address:
Customer Project Name/Number: Backgrounds State: County/City: Time Zone Collected:
CO / Rio Blanco [] PT [X] MT [] CT [] ET

Phone: Site/Facility ID #: Pinyon Ridge Federal C-1W Compliance Monitoring?
Email: [] Yes [X] No
Collected By (print): Alex Slorby Purchase Order #: DW PWS ID #:
Quote #: DW Location Code:
Collected By (signature): *Alex Slorby* Turnaround Date Required: Standard Immediately Packed on Ice:
Turnaround [X] Yes [] No
Sample Disposal: Rush: (Expedite Charges Apply) Field Filtered (if applicable):
[] Dispose as appropriate [] Same Day [] Next Day [] Yes [] No
[] Return [] 2 Day [] 3 Day
[] Archive: [] 4 Day [] 5 Day Analysis:
[] Hold:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res CI	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
230713-PR_C-1W_SB19@4-8	SL	G	7/13/2023	1105				1	P
230713-PR_C-1W_SB19@8-12	SL	G	7/13/2023	1110				1	P
230713-PR_C-1W_SB19@12-15	SL	G	7/13/2023	1115				1	P

Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☐ N If Applicable
COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N
4.070 = 4.0

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None
Please store all extra material for additional analysis. Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) *Alex Slorby* Date/Time: 7/14/2023 1600 Received by/Company: (Signature) *[Signature]* Date/Time:
Relinquished by/Company: (Signature) *[Signature]* Date/Time: 7/14/23 1700 Received by/Company: (Signature) *Hana Muechling* Date/Time: 7-15-23
Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: 0900

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace workorder number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Container Preservative Type ** Lab Project Manager:
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses										Lab Profile/Line:
EC, SAR, pH	Table 915-1 Metals	Boron - Hot Water Soluble	CR6IC							Lab Sample Receipt Checklist: Custody Seals Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Custody Signatures Present: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Collector Signature Present: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Bottles Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Correct Bottles: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Sufficient Volume: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Samples Received on Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA VOA - Headspace Acceptable: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA USDA Regulated Soils: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Samples in Holding Time: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Residual Chlorine Present: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Cl Strips: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Sample pH Acceptable: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA pH Strips: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Sulfide Present: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA Lead Acetate Strips: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
LAB USE ONLY: Lab Sample # / Comments: <i>L1635C108</i>										

Customer Remarks / Special Conditions / Possible Hazards: SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #:
Samples received via: FEDEX UPS Client Courier Pace Courier
Trip Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: °C
Cooler 1 Therm Corr. Factor: °C
Cooler 1 Corrected Temp: °C
Comments:
Non Conformance(s): YES / NO Page: of:



ANALYTICAL REPORT

August 01, 2023

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Anschutz Exploration Corporation

Sample Delivery Group: L1635909
Samples Received: 07/15/2023
Project Number:
Description: Backgrounds
Site: PINYON RIDGE FEDERAL C-1W
Report To: Schuyler Hamilton
555 17th Street Suite 2400
Denver, CO 80202

Entire Report Reviewed By:

Chris Ward

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

ACCOUNT:

Anschutz Exploration Corporation

PROJECT:

SDG:

L1635909

DATE/TIME:

08/01/23 11:41

PAGE:

1 of 15

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

SAMPLE SUMMARY

230713-PR_C-1W_SB20@4-8 L1635909-01 Solid

Collected by
Alex Slorby

Collected date/time
07/13/23 11:45

Received date/time
07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2096655	1	07/27/23 02:06	07/27/23 02:06	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2097353	1	07/19/23 23:57	07/20/23 06:44	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2097668	1	07/19/23 10:51	07/19/23 13:00	SJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2097561	1	07/19/23 11:40	07/19/23 15:43	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2096658	1	07/21/23 16:46	07/26/23 17:01	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2097351	5	07/19/23 09:59	07/22/23 13:30	JPD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

230713-PR_C-1W_SB20@8-10 L1635909-02 Solid

Collected by
Alex Slorby

Collected date/time
07/13/23 12:00

Received date/time
07/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2096655	1	07/27/23 02:09	07/27/23 02:09	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2097353	1	07/19/23 23:57	07/20/23 06:50	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2097597	1	07/19/23 10:09	07/19/23 13:08	MCC	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2097561	1	07/19/23 11:40	07/19/23 15:43	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2096658	1	07/21/23 16:46	07/26/23 17:10	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2097351	5	07/19/23 09:59	07/22/23 13:33	JPD	Mt. Juliet, TN

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

Anschutz Exploration Corporation

PROJECT:

SDG:

L1635909

DATE/TIME:

08/01/23 11:41

PAGE:

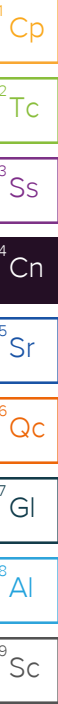
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CASE NARRATIVE

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



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	17.0		1	07/27/2023 02:06	WG2096655

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	07/20/2023 06:44	WG2097353

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.58	T8	1	07/19/2023 13:00	WG2097668

Sample Narrative:
L1635909-01 WG2097668: 8.58 at 21.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1850		10.0	1	07/19/2023 15:43	WG2097561

Sample Narrative:
L1635909-01 WG2097561: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.693		0.0167	0.200	1	07/26/2023 17:01	WG2096658

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.52		0.100	1.00	5	07/22/2023 13:30	WG2097351
Barium	62.3		0.152	2.50	5	07/22/2023 13:30	WG2097351
Cadmium	0.396	J	0.0855	1.00	5	07/22/2023 13:30	WG2097351
Copper	26.8		0.132	5.00	5	07/22/2023 13:30	WG2097351
Lead	12.5		0.0990	2.00	5	07/22/2023 13:30	WG2097351
Nickel	18.3		0.197	2.50	5	07/22/2023 13:30	WG2097351
Selenium	0.813	J	0.180	2.50	5	07/22/2023 13:30	WG2097351
Silver	0.110	J	0.0865	0.500	5	07/22/2023 13:30	WG2097351
Zinc	65.7		0.740	25.0	5	07/22/2023 13:30	WG2097351

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	9.94		1	07/27/2023 02:09	WG2096655

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	07/20/2023 06:50	WG2097353

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.09	T8	1	07/19/2023 13:08	WG2097597

Sample Narrative:
L1635909-02 WG2097597: 8.09 at 21C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2490		10.0	1	07/19/2023 15:43	WG2097561

Sample Narrative:
L1635909-02 WG2097561: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.726		0.0167	0.200	1	07/26/2023 17:10	WG2096658

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	13.9		0.100	1.00	5	07/22/2023 13:33	WG2097351
Barium	129		0.152	2.50	5	07/22/2023 13:33	WG2097351
Cadmium	0.425	J	0.0855	1.00	5	07/22/2023 13:33	WG2097351
Copper	28.0		0.132	5.00	5	07/22/2023 13:33	WG2097351
Lead	16.2		0.0990	2.00	5	07/22/2023 13:33	WG2097351
Nickel	17.3		0.197	2.50	5	07/22/2023 13:33	WG2097351
Selenium	1.14	J	0.180	2.50	5	07/22/2023 13:33	WG2097351
Silver	0.116	J	0.0865	0.500	5	07/22/2023 13:33	WG2097351
Zinc	72.7		0.740	25.0	5	07/22/2023 13:33	WG2097351

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3950596-1 07/20/23 06:05

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1635907-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635907-01 07/20/23 06:32 • (DUP) R3950596-3 07/20/23 06:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	0.335	1	200	J P1	20

L1636240-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1636240-07 07/20/23 08:08 • (DUP) R3950596-8 07/20/23 08:13

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3950596-2 07/20/23 06:13

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	10.7	107	80.0-120	

L1636240-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1636240-03 07/20/23 07:26 • (MS) R3950596-5 07/20/23 07:36 • (MSD) R3950596-6 07/20/23 07:42

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	1.12	20.8	19.6	98.5	92.3	1	75.0-125			6.19	20

L1636240-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1636240-03 07/20/23 07:26 • (MS) R3950596-7 07/20/23 07:47

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	643	1.12	599	93.2	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1635907-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635907-01 07/19/23 13:08 • (DUP) R3950271-2 07/19/23 13:08

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.54	7.54	1	0.000		1

Sample Narrative:

OS: 7.54 at 21.7C

DUP: 7.54 at 21.5C



L1636257-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1636257-02 07/19/23 13:08 • (DUP) R3950271-3 07/19/23 13:08

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.34	8.39	1	0.598		1

Sample Narrative:

OS: 8.34 at 21.5C

DUP: 8.39 at 21.3C

Laboratory Control Sample (LCS)

(LCS) R3950271-1 07/19/23 13:08

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

Sample Narrative:

LCS: 10.01 at 21.3C

L1635933-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635933-01 07/19/23 13:00 • (DUP) R3950290-2 07/19/23 13:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.64	7.66	1	0.261		1

Sample Narrative:

OS: 7.64 at 21.4C

DUP: 7.66 at 21.4C

Laboratory Control Sample (LCS)

(LCS) R3950290-1 07/19/23 13:00

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

Sample Narrative:

LCS: 10 at 21C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3950375-1 07/19/23 15:43

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

L1635893-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1635893-01 07/19/23 15:43 • (DUP) R3950375-3 07/19/23 15:43

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1840	1810	1	1.37		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1636321-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1636321-02 07/19/23 15:43 • (DUP) R3950375-4 07/19/23 15:43

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	194	197	1	1.69		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3950375-2 07/19/23 15:43

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	727	99.3	85.0-115	

Sample Narrative:

LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3953306-1 07/26/23 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3953306-2 07/26/23 16:04 • (LCSD) R3953306-3 07/26/23 16:07

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 %
Hot Water Sol. Boron	1.00	1.10	1.12	110	112	80.0-120			1.45	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3951578-1 07/22/23 12:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Copper	U		0.133	5.00
Lead	0.526	U	0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	1.22	U	0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3951578-2 07/22/23 12:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	103	103	80.0-120	
Barium	100	100	100	80.0-120	
Cadmium	100	103	103	80.0-120	
Copper	100	94.9	94.9	80.0-120	
Lead	100	97.6	97.6	80.0-120	
Nickel	100	103	103	80.0-120	
Selenium	100	120	120	80.0-120	
Silver	20.0	21.6	108	80.0-120	
Zinc	100	99.6	99.6	80.0-120	

L1635893-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1635893-05 07/22/23 12:53 • (MS) R3951578-5 07/22/23 13:03 • (MSD) R3951578-6 07/22/23 13:06

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.44	66.4	79.2	63.0	75.8	5	75.0-125	J6		17.6	20
Barium	100	29.6	111	121	81.3	91.6	5	75.0-125			8.90	20
Cadmium	100	0.621	84.3	101	83.7	101	5	75.0-125			18.3	20
Copper	100	15.8	92.6	107	76.8	91.0	5	75.0-125			14.3	20
Lead	100	19.0	102	111	82.7	92.0	5	75.0-125			8.73	20
Nickel	100	25.6	95.3	112	69.7	86.4	5	75.0-125	J6		16.2	20
Selenium	100	1.25	82.4	90.7	81.2	89.4	5	75.0-125			9.51	20
Silver	20.0	U	17.8	21.5	89.1	108	5	75.0-125			18.8	20
Zinc	100	133	196	209	63.0	76.0	5	75.0-125	J6		6.43	20

1Cp

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GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

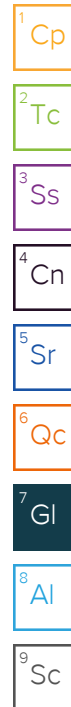
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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



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.

