



2021 Annual CCR Groundwater Monitoring Report Bottom Ash Ponds

Former Monticello Steam Electric Station
FM 127, Mt. Pleasant, Titus County, Texas

Prepared for:

GOLDEN EAGLE DEVELOPMENT LLC

Prepared by:

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February 4, 2022



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ACRONYMS AND ABBREVIATIONS

mg/L Milligrams per Liter

NA Not Applicable



1.0 INTRODUCTION

On behalf of Golden Eagle Development, LLC (Golden Eagle), Gemini Engineering LLC (Gemini) has prepared this report to satisfy annual groundwater monitoring and corrective action reporting requirements of the Coal Combustion Residuals (CCR) Rule for the Northeast Ash Water Retention Pond, West Ash Settling Pond, and Southwest Ash Settling Pond (Bottom Ash Ponds) at the Monticello Steam Electric Station (MOSES) in Mount Pleasant, Texas. The CCR units and CCR monitoring well network are shown on Figure 1. Golden Eagle acquired MOSES in December 2020 from Luminant Generation Company, LLC (Luminant).

The CCR Rule (40 Code of Federal Regulations (CFR) 257 Subpart D - *Standards for the Receipt of Coal Combustion Residuals in Landfills and Surface Impoundments*) has been promulgated by the United States Environmental Protection Agency (USEPA) to regulate the management and disposal of CCRs as solid waste under Resource Conservation and Recovery Act (RCRA) Subtitle D. This report is in accordance with 30 Texas Administrative Code (30 TAC) Chapter 352, Coal Combustion Residuals Waste Management which establishes a CCR registration and management program to regulate CCR waste and requires the Owner/Operator to obtain a CCR registration and implement a groundwater detection/monitoring program.

For existing CCR landfills and surface impoundments, the CCR Rule requires that the owner or operator prepare an annual groundwater monitoring and corrective action report to document the status of the groundwater monitoring and corrective action program for the CCR unit for the previous calendar year. Per 40 CFR 257.90(e) and 30 TAC Chapter 352, Subchapter H of the CCR Rule, the report should contain the following information, to the extent available:

- (1) A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;
- (2) Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- (3) In addition to all the monitoring data obtained under §257.90 through §257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;
- (4) A narrative discussion of any transition between monitoring programs (*e.g.*, the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- (5) Other information required to be included in the annual report as specified in §257.90 through §257.98.



2.0 MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

The MOSES CCR Bottom Ash Ponds are currently in the Detection Monitoring Program. Luminant collected the initial Detection Monitoring Program groundwater samples from the Bottom Ash Ponds CCR monitoring well network in September 2017. Detection groundwater samples have been collected from the CCR groundwater monitoring network on a semi-annual basis in 2018 through 2021, as required by the CCR Rule. All CCR groundwater monitoring wells were sampled for Appendix III constituents during the detection monitoring sampling events, except W-29. The demolition of the steam generating units has caused unsafe conditions near W-29; therefore, groundwater sample collection from that well has been postponed. The following table provides a summary of the Detection Monitoring Program:

Detection Monitoring Program Summary

Sampling Dates	Parameters	SSIs	Assessment Monitoring Program Established
September 2017	Appendix III	No	No
June 2018	Appendix III	No	No
September 2018	Appendix III	No	No
May 2019	Appendix III	No	No
October 2019	Appendix III	No	No
April 2020	Appendix III	Yes	No
October/November 2020	Appendix III	Yes	No
March 2021	Appendix III	No	No
August 2021	Appendix III	No	No

The statistical background values and Appendix III analytical data are presented in Tables 1 and 2, respectively, and the 2021 laboratory analytical reports are provided in Appendix A. There were no SSIs of Appendix III parameters in 2017 through 2019; therefore, the CCR units remained in Detection Monitoring in 2021. The analytical data from the 2021 detection monitoring sampling events were evaluated using procedures described in the Statistical Analysis Plan (PBW 2017) to identify Statistically Significant Increases (SSIs) of Appendix III parameters over background concentrations. In 2020, there was an SSI for one parameter; however, the issue was identified as an equipment malfunction and is being resolved as described below. Following the repair of the pH meter, pH levels are within the Statistical Background Values for downgradient monitoring wells.



3.0 KEY ACTIONS COMPLETED IN 2021

Detection Monitoring Program groundwater monitoring events were completed in March and August 2021. The number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and the analytical results for the groundwater samples are summarized in Table 2. A map showing the CCR units and monitoring wells is provided as Figure 1.

No CCR wells were installed or decommissioned in 2021.



4.0 PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

The demolition of the steam generating units has caused unsafe conditions near W-29; therefore, groundwater sample collection from that well has been postponed until conditions are safe. New water quality components were ordered and will be utilized in 2021 and the pH levels are within the Statistical Background Values for downgradient monitoring wells.



5.0 KEY ACTIVITIES PLANNED FOR 2022

The following key activities are planned for 2022:

- Continue the Detection Monitoring Program in accordance with 40 CFR § 257.94.
- Complete evaluation of Appendix III analytical data from the downgradient wells and compare results to statistical background values to determine whether an SSI has occurred.
- If an SSI is identified, potential alternate sources (i.e., a source other than the CCR unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated. If an alternate source is identified to be the cause of the SSI, a written demonstration will be completed within 90 days of SSI determination and included in the Annual Groundwater Monitoring Report.
- If an alternate source is not identified to be the cause of the SSI, an Assessment Monitoring Program will be established in accordance with 40 CFR § 257.94(e)(2).



6.0 REFERENCES

Pastor, Behling & Wheeler, LLC, 2017. Coal Combustion Residual Rule Statistical Analysis Plan, Monticello Steam Electric Station, Ash Ponds, Mount Pleasant, Texas.

Signature Page



Adam J. Kaiser, P.E.
Texas PE No 126387, Expires 3/31/2022
Texas Engineering Firm No: 23183



2/3/2022

TABLES

Table 1
Statistical Background Values
MOSES Bottom Ash Ponds

Parameter	Statistical Background Value
Boron (B) (mg/L)	8.52
Calcium (Ca) (mg/L)	311
Chloride (Cl) (mg/L)	184
Fluoride (F) (mg/L)	2.93
field pH (s.u.)	4.99 - 7.14
Sulfate (SO ₄) (mg/L)	1,190
Total Dissolved Solids (TDS) (mg/L)	2,150

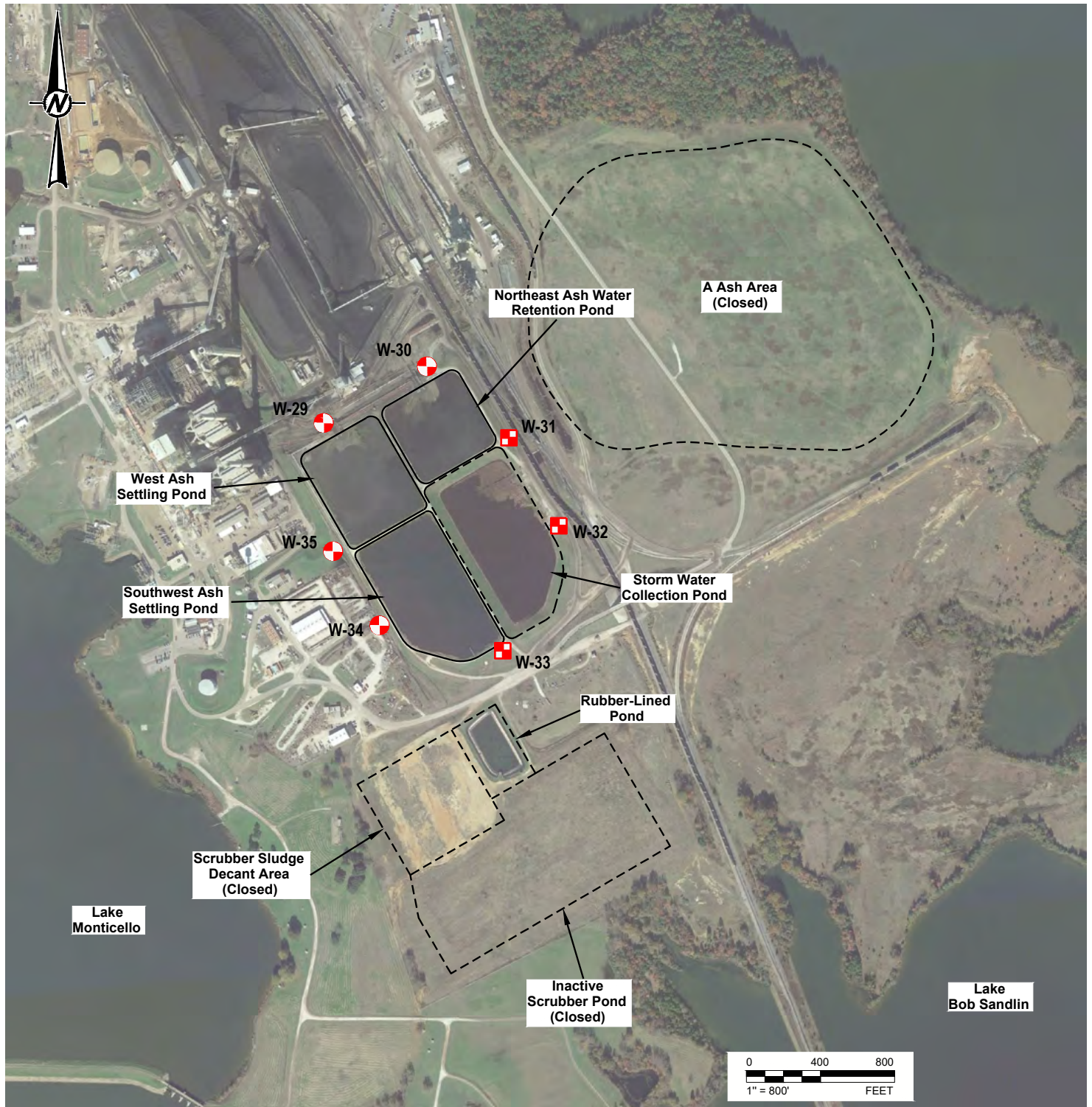
Table 2
Analytical Results
MOSES CCR BAP Monitoring 2021

Sample Location	Date Sampled	B (mg/L)	Ca (mg/L)	Cl (mg/L)	F (mg/L)	pH (s.u.)	SO ₄ (mg/L)	TDS (mg/L)
W-30	10/15/15	6.06	133	106	0.58	5.78	919	1490
	12/07/15	7.04	135	98.3	0.81	5.95	875	1530
	02/22/16	6.83	138	96.3	0.72	5.94	873	1790
	04/04/16	6.28	141	95.2	0.96	5.93	925	1460
	06/06/16	6.89	132	94.9	0.36 J	5.96	884	1460
	08/08/16	5.94	136	85.7	0.45	6.23	848	1550
	10/12/16	6.51	130	79.9	0.79	6.02	817	1300
	12/29/16	8.54	192	85.3	0.50	5.34	863	1510
	09/20/17	5.76	127	76.5	0.394 J	6.85	734	1570
	06/08/18	5.06	127	87.8	0.92	6.78	724	1280
	09/10/18	4.53	115	81.1	0.91	5.25	713	1230
	05/09/19	5.13	115	97.5	0.85	6.72	734	1300
	10/30/19	5.06	161	59.4	0.57	6.43	755	1330
	04/26/20	4.18	135	51.4	0.69	7.49	763	1150
	10/31/20	4.26	141	44.0	0.68	7.11	735	1140
03/24/21	4.33	133	40.5	0.58	5.67	686	1070	
08/15/21	4.01	100	33.4	0.82	5.83	606	979	
W-34	10/15/15	2.38	124	87.1	0.38 J	6.55	453	878
	12/07/15	4.10	153	82.2	0.49	6.58	671	1500
	02/22/16	3.44	117	85.9	0.42	6.59	641	1570
	04/04/16	2.09	86.9	80.7	0.287 J	6.63	378	817
	06/06/16	2.12	66.2	73.0	<0.1	6.64	343	795
	08/08/16	3.56	121	98.4	<0.1	6.52	634	1030
	10/12/16	3.13	110	84.9	0.29	6.57	556	935
	12/29/16	6.10	158	122	0.336 J	6.03	937	1620
	09/20/17	5.36	181	117	0.244 J	6.75	873	1720
	06/08/18	4.95	180	116	0.90	6.85	835	1540
	09/10/18	4.53	161	114	0.66	6.64	819	1530
	05/09/19	1.51	64.7	45.1	0.348 J	6.78	164	568
	10/30/19	4.11	154	103	0.322 J	6.62	677	1260
	04/26/20	4.26	182	108	0.44	7.67	817	1370
	11/01/20	5.47	217	114	0.35	7.50	930	1560
03/24/21	5.80	229	132	0.48	6.20	1130	1640	
08/15/21	4.83	210	125	0.35	6.16	933	1620	
W-35	10/15/15	5.58	175	98.2	<0.1	6.05	893	1720
	12/07/15	6.13	177	90.2	0.128 J	6.16	861	1580
	02/22/16	6.29	160	85.4	<0.1	6.12	824	1650
	04/04/16	6.16	169	91.3	<0.1	6.09	835	1310
	06/06/16	6.17	158	98.5	<0.1	6.36	858	1460
	08/08/16	6.07	159	97.8	<0.1	6.41	810	1470
	10/12/16	6.25	150	97.8	0.1	6.12	793	1320
	12/29/16	6.89	151	110	<0.1	5.06	839	1370
	09/20/17	6.27	186	120	<0.100	6.74	854	1650
	06/08/18	5.81	200	128	0.163 J	6.55	925	1660
	09/10/18	5.70	204	132	<0.1	5.42	940	1580
	05/10/19	5.46	182	75.5	<0.1	6.94	501	865
	10/30/19	3.63	111	95.5	<0.100	6.92	682	1280
	10/30/2019 DUP	4.57	142	99.1	<0.100	6.92	699	1280
	04/26/20	5.30	209	129	<0.150	6.50	984	1600
	11/01/20	5.95	207	118	<0.064	6.73	945	1550
	03/25/21	6.16	213	129	0.0725 J	5.29	1010	1510
08/15/21	6.04	216	137	<0.0640	5.70	992	1650	

Notes:

1. Shaded cells exceeded Statistical Background Values
2. Abbreviations: mg/L - milligrams per liter; TDS - total dissolved solids; s.u. - standard units.
3. J - concentration is below method quantitation limit; result is an estimate.
4. Samples from the Current Period are bold.
5. NA = not analyzed

FIGURES



LEGEND

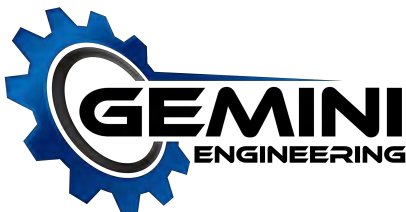


DOWNGRADIENT CCR MONITORING WELL



UPGRADIENT CCR MONITORING WELL

C:\Users\worcc\OneDrive\Documents\DWG\Gemini\Projects\Monticello\dwg\Site_Plan.dwg



Detailed Site Plan
Site: Golden Eagle Development

Chkd:	AK
Drawn:	EFC
Page:	1 of 1
Date:	1/25/2022
Scale:	As Shown

APPENDIX A - 2021 LABORATORY ANALYTICAL REPORTS

Commercial Liability Partners, LLC

Sample Delivery Group: L1391597
Samples Received: 08/17/2021
Project Number:
Description: Golden Eagle Groundwater

Report To: Adam Kaiser
2275 Cassens Drive
Suite 118
Fenton, MO 63026

Entire Report Reviewed By:



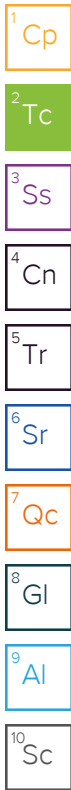
Jeff Carr
Project Manager

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

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SAMPLE SUMMARY

W-30 L1391597-01 GW

Collected by Jeff Norfleet Collected date/time 08/15/21 11:00 Received date/time 08/17/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1726897	1	08/20/21 17:27	08/20/21 19:13	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725739	1	08/23/21 06:05	08/23/21 06:05	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725739	10	08/23/21 06:16	08/23/21 06:16	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1725253	1	08/19/21 13:39	08/19/21 18:18	JPD	Mt. Juliet, TN

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

W-31 L1391597-02 GW

Collected by Jeff Norfleet Collected date/time 08/15/21 10:00 Received date/time 08/17/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1726383	1	08/19/21 19:09	08/19/21 20:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725739	1	08/23/21 06:51	08/23/21 06:51	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725739	5	08/23/21 07:03	08/23/21 07:03	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1725253	1	08/19/21 13:39	08/19/21 18:31	JPD	Mt. Juliet, TN

W-32 L1391597-03 GW

Collected by Jeff Norfleet Collected date/time 08/15/21 09:00 Received date/time 08/17/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1726383	1	08/19/21 19:09	08/19/21 20:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725739	1	08/23/21 07:14	08/23/21 07:14	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1725253	1	08/19/21 13:39	08/19/21 18:34	JPD	Mt. Juliet, TN

W-33 L1391597-04 GW

Collected by Jeff Norfleet Collected date/time 08/14/21 09:00 Received date/time 08/17/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1726897	1	08/20/21 17:27	08/20/21 19:13	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725739	1	08/23/21 07:48	08/23/21 07:48	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1725253	1	08/19/21 13:39	08/19/21 18:38	JPD	Mt. Juliet, TN

W-34 L1391597-05 GW

Collected by Jeff Norfleet Collected date/time 08/14/21 10:00 Received date/time 08/17/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1726383	1	08/19/21 19:09	08/19/21 20:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725739	1	08/23/21 08:00	08/23/21 08:00	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725739	20	08/23/21 08:11	08/23/21 08:11	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1725253	1	08/19/21 13:39	08/19/21 19:58	JPD	Mt. Juliet, TN

W-35 L1391597-06 GW

Collected by Jeff Norfleet Collected date/time 08/14/21 11:00 Received date/time 08/17/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1726897	1	08/20/21 17:27	08/20/21 19:13	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725739	1	08/23/21 08:23	08/23/21 08:23	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725739	20	08/23/21 08:34	08/23/21 08:34	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1725253	1	08/19/21 13:39	08/19/21 20:02	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.



Jeff Carr
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Jeff Carr
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 08/24/2021 16:44					
Project Name: Golden Eagle Groundwater		Laboratory Job Number: L1391597-01, 02, 03, 04, 05 and 06					
Reviewer Name: Jeff Carr		Prep Batch Number(s): WG1725253, WG1726383, WG1726897 and WG1725739					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?		X			1
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
 3. NA = Not applicable;
 4. NR = Not reviewed;
 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 08/24/2021 16:44					
Project Name: Golden Eagle Groundwater		Laboratory Job Number: L1391597-01, 02, 03, 04, 05 and 06					
Reviewer Name: Jeff Carr		Prep Batch Number(s): WG1725253, WG1726383, WG1726897 and WG1725739					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
<p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National		LRC Date: 08/24/2021 16:44	
Project Name: Golden Eagle Groundwater		Laboratory Job Number: L1391597-01, 02, 03, 04, 05 and 06	
Reviewer Name: Jeff Carr		Prep Batch Number(s): WG1725253, WG1726383, WG1726897 and WG1725739	
ER # ¹	Description		
1	9056A WG1725739 R3695746-4, 5 and 7: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).		
<p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>			

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	979		13.3	13.3	1	08/20/2021 19:13	WG1726897

¹Cp

²Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	33.4		0.379	1.00	1.00	1	08/23/2021 06:05	WG1725739
Fluoride	0.824		0.0640	0.150	0.150	1	08/23/2021 06:05	WG1725739
Sulfate	606		5.94	5.00	50.0	10	08/23/2021 06:16	WG1725739

³Ss

⁴Cn

⁵Tr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	4.01		0.00963	0.0300	0.0300	1	08/19/2021 18:18	WG1725253
Calcium	100		0.0936	1.00	1.00	1	08/19/2021 18:18	WG1725253

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	400		10.0	10.0	1	08/19/2021 20:09	WG1726383

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Chloride	49.9		0.379	1.00	1.00	1	08/23/2021 06:51	WG1725739
Fluoride	0.0732	J	0.0640	0.150	0.150	1	08/23/2021 06:51	WG1725739
Sulfate	242		2.97	5.00	25.0	5	08/23/2021 07:03	WG1725739

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Boron	1.84		0.00963	0.0300	0.0300	1	08/19/2021 18:31	WG1725253
Calcium	51.6		0.0936	1.00	1.00	1	08/19/2021 18:31	WG1725253

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	270		10.0	10.0	1	08/19/2021 20:09	WG1726383

¹Cp

²Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	9.64		0.379	1.00	1.00	1	08/23/2021 07:14	WG1725739
Fluoride	1.75		0.0640	0.150	0.150	1	08/23/2021 07:14	WG1725739
Sulfate	76.3		0.594	5.00	5.00	1	08/23/2021 07:14	WG1725739

³Ss

⁴Cn

⁵Tr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	2.07		0.00963	0.0300	0.0300	1	08/19/2021 18:34	WG1725253
Calcium	52.3		0.0936	1.00	1.00	1	08/19/2021 18:34	WG1725253

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	295		10.0	10.0	1	08/20/2021 19:13	WG1726897

¹Cp

²Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	8.05		0.379	1.00	1.00	1	08/23/2021 07:48	WG1725739
Fluoride	4.22		0.0640	0.150	0.150	1	08/23/2021 07:48	WG1725739
Sulfate	51.4		0.594	5.00	5.00	1	08/23/2021 07:48	WG1725739

³Ss

⁴Cn

⁵Tr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	1.81		0.00963	0.0300	0.0300	1	08/19/2021 18:38	WG1725253
Calcium	61.7		0.0936	1.00	1.00	1	08/19/2021 18:38	WG1725253

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	1620		20.0	20.0	1	08/19/2021 20:09	WG1726383

¹Cp

²Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	125		7.58	1.00	20.0	20	08/23/2021 08:11	WG1725739
Fluoride	0.348		0.0640	0.150	0.150	1	08/23/2021 08:00	WG1725739
Sulfate	933		11.9	5.00	100	20	08/23/2021 08:11	WG1725739

³Ss

⁴Cn

⁵Tr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	4.83		0.00963	0.0300	0.0300	1	08/19/2021 19:58	WG1725253
Calcium	210		0.0936	1.00	1.00	1	08/19/2021 19:58	WG1725253

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	1650		25.0	25.0	1	08/20/2021 19:13	WG1726897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	137		7.58	1.00	20.0	20	08/23/2021 08:34	WG1725739
Fluoride	U		0.0640	0.150	0.150	1	08/23/2021 08:23	WG1725739
Sulfate	992		11.9	5.00	100	20	08/23/2021 08:34	WG1725739

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	6.04		0.00963	0.0300	0.0300	1	08/19/2021 20:02	WG1725253
Calcium	216		0.0936	1.00	1.00	1	08/19/2021 20:02	WG1725253

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

Method Blank (MB)

(MB) R3694887-1 08/19/21 20:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1391526-35 Original Sample (OS) • Duplicate (DUP)

(OS) L1391526-35 08/19/21 20:09 • (DUP) R3694887-3 08/19/21 20:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	711	725	1	2.04		5

4 Cn

5 Tr

L1391550-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1391550-07 08/19/21 20:09 • (DUP) R3694887-4 08/19/21 20:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	606	611	1	0.822		5

6 Sr

7 Qc

Laboratory Control Sample (LCS)

(LCS) R3694887-2 08/19/21 20:09

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8420	95.7	77.4-123	

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3695210-1 08/20/21 19:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1389457-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1389457-01 08/20/21 19:13 • (DUP) R3695210-3 08/20/21 19:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1310	1320	1	1.01		5

⁴Cn

⁵Tr

L1389472-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1389472-01 08/20/21 19:13 • (DUP) R3695210-4 08/20/21 19:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	4690	4660	1	0.642		5

⁶Sr

⁷Qc

Laboratory Control Sample (LCS)

(LCS) R3695210-2 08/20/21 19:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8580	97.5	77.4-123	

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3695746-1 08/22/21 20:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1391312-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1391312-01 08/23/21 02:25 • (DUP) R3695746-3 08/23/21 02:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	54.7	54.7	1	0.180		15
Fluoride	0.663	0.660	1	0.408		15
Sulfate	28.0	27.9	1	0.429		15

L1391597-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1391597-03 08/23/21 07:14 • (DUP) R3695746-6 08/23/21 07:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	9.64	9.64	1	0.0197		15
Fluoride	1.75	1.76	1	1.02		15
Sulfate	76.3	76.3	1	0.0477		15

Laboratory Control Sample (LCS)

(LCS) R3695746-2 08/22/21 20:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	40.6	102	80.0-120	
Fluoride	8.00	8.43	105	80.0-120	
Sulfate	40.0	41.4	103	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

L1391511-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1391511-03 08/23/21 02:59 • (MS) R3695746-4 08/23/21 03:11 • (MSD) R3695746-5 08/23/21 03:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits
Chloride	50.0	109	154	154	91.8	91.4	1	80.0-120	E	E	0.130	15
Fluoride	5.00	0.524	5.90	5.88	108	107	1	80.0-120			0.309	15

L1391597-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1391597-03 08/23/21 07:14 • (MS) R3695746-7 08/23/21 07:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	9.64	60.5	102	1	80.0-120	
Fluoride	5.00	1.75	7.01	105	1	80.0-120	
Sulfate	50.0	76.3	124	94.9	1	80.0-120	E

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3694199-1 08/19/21 18:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron	U		0.00963	0.0300
Calcium	U		0.0936	1.00

Laboratory Control Sample (LCS)

(LCS) R3694199-2 08/19/21 18:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Boron	0.500	0.503	101	80.0-120	
Calcium	5.00	5.02	100	80.0-120	

L1391597-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1391597-01 08/19/21 18:18 • (MS) R3694199-4 08/19/21 18:25 • (MSD) R3694199-5 08/19/21 18:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	0.500	4.01	4.47	4.54	93.7	107	1	75.0-125			1.48	20
Calcium	5.00	100	105	104	98.6	80.4	1	75.0-125			0.872	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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.

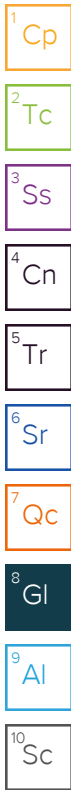
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDL	Method Detection Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
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.



ACCREDITATIONS & LOCATIONS

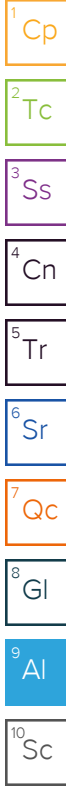
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Company Name/Address:
Commercial Liability Partners, LLC
 2275 Cassens Drive
 Suite 118
 Fenton, MO 63026

Billing Information:
 Adam Kaiser
 2275 Cassens Drive
 Suite 118
 Fenton, MO 63026

Pres
 Chk

Analysis / Container / Preservative									
22									
Anions - Cl ⁻ , F ⁻ , SO ₄	125mlHDPE-NoPres								
B, Ca	6020 250mlHDPE-HNO ₃								
TDS	250mlHDPE-NoPres								

Chain of Custody Page ___ of ___



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

SDG # **1391597**
A105

Acctnum: **COMLIAFMO**
 Template: **T175182**
 Prelogin: **P866429**
 PM: **206 - Jeff Carr**
 PB: **BF 8/11/21**
 Shipped Via: **FedEX Ground**

Remarks	Sample # (lab only)
	-01
	-02
	-03
	-04
	-05
	-06

Report to:
Adam Kaiser

Email To:
 adam.kaiser@atonenv.com; jeffnorfleet@hotmail.com

Project Description:
Golden Eagle Groundwater

City/State Collected: **MT, Pleasant, TX**

Please Circle:
 PT MT CT ET

Phone: **314-624-1604**

Client Project #

Lab Project #
COMLIAFMO-GOLDEAGLE

Collected by (print):
Jeff Norfleet

Site/Facility ID #

P.O. #

Collected by (signature):
Jeff Norfleet

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

Quote #

Immediately Packed on Ice N ___ Y

Date Results Needed

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs												
W-30	Grab	GW	16.6	8/15/21	1100	3	X	X	X									
W-31		GW	11.9	8/15/21	1000	3	X	X	X									
W-32		GW	12.7	8/15/21	0900	3	X	X	X									
W-33		GW	22.3	8/14/21	0900	3	X	X	X									
W-34		GW	19.9	8/14/21	1000	3	X	X	X									
W-35	↓	GW	20.9	8/14/21	1100	3	X	X	X									
		GW				3	X	X	X									
		GW				3	X	X	X									
		GW				3	X	X	X									

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

Remarks:

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 ___ UPS ___ FedEx ___ Courier

Tracking # **5163 7708 7931**

Sample Receipt Checklist

COC Seal Present/Intact: ___ NP N
 COC Signed/Accurate: ___ N
 Bottles arrive intact: ___ N
 Correct bottles used: ___ N
 Sufficient volume sent: ___ N

If Applicable

VOA Zero Headspace: ___ N
 Preservation Correct/Checked: ___ N
 RAD Screen <0.5 mR/hr: ___ N

Relinquished by: (Signature)
Jeff Norfleet

Date: **8-16-21** Time: **1430**

Received by: (Signature)

Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: **17.60°C** Bottles Received: **18**
0.8-1.0.7

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)
M. White

Date: **8/16/21** Time: **900**

Hold: Condition: **NCF / OK**

April 05, 2021

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Commercial Liability Partners, LLC

Sample Delivery Group: L1332306
Samples Received: 03/30/2021
Project Number:
Description: Golden Eagle Groundwater
Site: GOLDEN EAGLE
Report To: Adam Kaiser
2275 Cassens Drive
Suite 118
Fenton, MO 63026

Entire Report Reviewed By:



Jeff Carr
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

W-29 L1332306-01 GW

Collected by Jeff Norfleet Collected date/time 03/29/21 14:00 Received date/time 03/30/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1644707	1	04/02/21 12:42	04/02/21 16:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	1	04/04/21 23:49	04/04/21 23:49	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	5	04/05/21 00:05	04/05/21 00:05	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	1	04/02/21 19:12	04/03/21 12:06	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	1	04/02/21 19:12	04/05/21 08:38	TM	Mt. Juliet, TN



W-30 L1332306-02 GW

Collected by Jeff Norfleet Collected date/time 03/24/21 19:15 Received date/time 03/30/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1643255	1	03/31/21 10:40	03/31/21 13:56	MML	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	1	04/05/21 00:21	04/05/21 00:21	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	10	04/05/21 00:38	04/05/21 00:38	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	1	04/02/21 19:12	04/03/21 12:09	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	10	04/02/21 19:12	04/05/21 12:04	LAT	Mt. Juliet, TN



W-31 L1332306-03 GW

Collected by Jeff Norfleet Collected date/time 03/24/21 18:30 Received date/time 03/30/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1643308	1	03/31/21 17:02	03/31/21 18:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	1	04/05/21 00:54	04/05/21 00:54	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	5	04/05/21 02:00	04/05/21 02:00	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	1	04/02/21 19:12	04/03/21 12:12	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	1	04/02/21 19:12	04/05/21 08:45	TM	Mt. Juliet, TN



W-32 L1332306-04 GW

Collected by Jeff Norfleet Collected date/time 03/24/21 17:45 Received date/time 03/30/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1643308	1	03/31/21 17:02	03/31/21 18:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	1	04/05/21 02:33	04/05/21 02:33	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	1	04/02/21 19:12	04/03/21 12:15	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	1	04/02/21 19:12	04/05/21 08:48	TM	Mt. Juliet, TN

W-33 L1332306-05 GW

Collected by Jeff Norfleet Collected date/time 03/24/21 17:00 Received date/time 03/30/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1643308	1	03/31/21 17:02	03/31/21 18:27	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	1	04/05/21 03:38	04/05/21 03:38	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	1	04/02/21 19:12	04/03/21 13:03	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	10	04/02/21 19:12	04/05/21 12:07	LAT	Mt. Juliet, TN

W-34 L1332306-06 GW

Collected by Jeff Norfleet Collected date/time 03/29/21 13:00 Received date/time 03/30/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1643882	1	04/01/21 06:24	04/01/21 10:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	1	04/05/21 04:11	04/05/21 04:11	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	20	04/05/21 04:28	04/05/21 04:28	MCG	Mt. Juliet, TN

SAMPLE SUMMARY

W-34 L1332306-06 GW

Collected by: Jeff Norfleet
 Collected date/time: 03/29/21 13:00
 Received date/time: 03/30/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1644694	1	04/02/21 19:12	04/03/21 13:06	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	10	04/02/21 19:12	04/05/21 12:11	LAT	Mt. Juliet, TN

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

W-35 L1332306-07 GW

Collected by: Jeff Norfleet
 Collected date/time: 03/25/21 17:00
 Received date/time: 03/30/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1643882	1	04/01/21 06:24	04/01/21 10:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	1	04/05/21 05:17	04/05/21 05:17	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1645238	20	04/05/21 05:33	04/05/21 05:33	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	1	04/02/21 19:12	04/03/21 13:09	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1644694	10	04/02/21 19:12	04/05/21 12:14	LAT	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.



Jeff Carr
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Jeff Carr
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National		LRC Date: 04/05/2021 16:19					
Project Name: Golden Eagle Groundwater		Laboratory Job Number: L1332306-01, 02, 03, 04, 05, 06 and 07					
Reviewer Name: Jeff Carr		Prep Batch Number(s): WG1643882, WG1643308, WG1644694, WG1643255, WG1645238 and WG1644707					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			1
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
 3. NA = Not applicable;
 4. NR = Not reviewed;
 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National		LRC Date: 04/05/2021 16:19					
Project Name: Golden Eagle Groundwater		Laboratory Job Number: L1332306-01, 02, 03, 04, 05, 06 and 07					
Reviewer Name: Jeff Carr		Prep Batch Number(s): WG1643882, WG1643308, WG1644694, WG1643255, WG1645238 and WG1644707					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				
<p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>							

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 04/05/2021 16:19
Project Name: Golden Eagle Groundwater	Laboratory Job Number: L1332306-01, 02, 03, 04, 05, 06 and 07
Reviewer Name: Jeff Carr	Prep Batch Number(s): WG1643882, WG1643308, WG1644694, WG1643255, WG1645238 and WG1644707
ER #¹	Description
1	9056A WG1645238 Fluoride: Relative Percent Difference is outside of established control limits. 2540 C-2011 WG1643255 Dissolved Solids: Relative Percent Difference is outside of established control limits. 2540 C-2011 WG1643882 Dissolved Solids: Relative Percent Difference is outside of established control limits.
1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 3. NA = Not applicable; 4. NR = Not reviewed; 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).	

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	495		10.0	10.0	1	04/02/2021 16:00	WG1644707

¹Cp

²Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	83.3		0.379	1.00	1.00	1	04/04/2021 23:49	WG1645238
Fluoride	0.146	J	0.0640	0.150	0.150	1	04/04/2021 23:49	WG1645238
Sulfate	224		2.97	5.00	25.0	5	04/05/2021 00:05	WG1645238

³Ss

⁴Cn

⁵Tr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	1.25		0.00963	0.0300	0.0300	1	04/05/2021 08:38	WG1644694
Calcium	89.9		0.0936	1.00	1.00	1	04/03/2021 12:06	WG1644694

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	1070		20.0	20.0	1	03/31/2021 13:56	WG1643255

¹ Cp

² Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	40.5		0.379	1.00	1.00	1	04/05/2021 00:21	WG1645238
Fluoride	0.575		0.0640	0.150	0.150	1	04/05/2021 00:21	WG1645238
Sulfate	686		5.94	5.00	50.0	10	04/05/2021 00:38	WG1645238

³ Ss

⁴ Cn

⁵ Tr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	4.33		0.0963	0.0300	0.300	10	04/05/2021 12:04	WG1644694
Calcium	133		0.0936	1.00	1.00	1	04/03/2021 12:09	WG1644694

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	373		10.0	10.0	1	03/31/2021 18:27	WG1643308

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Chloride	47.7		0.379	1.00	1.00	1	04/05/2021 00:54	WG1645238
Fluoride	0.117	J	0.0640	0.150	0.150	1	04/05/2021 00:54	WG1645238
Sulfate	173		2.97	5.00	25.0	5	04/05/2021 02:00	WG1645238

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Boron	1.38		0.00963	0.0300	0.0300	1	04/05/2021 08:45	WG1644694
Calcium	41.4		0.0936	1.00	1.00	1	04/03/2021 12:12	WG1644694

1 Cp

2 Tc

3 Ss

4 Cn

5 Tr

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	204		10.0	10.0	1	03/31/2021 18:27	WG1643308

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	5.32		0.379	1.00	1.00	1	04/05/2021 02:33	WG1645238
Fluoride	2.18		0.0640	0.150	0.150	1	04/05/2021 02:33	WG1645238
Sulfate	42.9		0.594	5.00	5.00	1	04/05/2021 02:33	WG1645238

3 Ss

4 Cn

5 Tr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	1.62		0.00963	0.0300	0.0300	1	04/05/2021 08:48	WG1644694
Calcium	40.0		0.0936	1.00	1.00	1	04/03/2021 12:15	WG1644694

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	342		10.0	10.0	1	03/31/2021 18:27	WG1643308

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	8.55		0.379	1.00	1.00	1	04/05/2021 03:38	WG1645238
Fluoride	3.48		0.0640	0.150	0.150	1	04/05/2021 03:38	WG1645238
Sulfate	54.8		0.594	5.00	5.00	1	04/05/2021 03:38	WG1645238

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	2.32		0.0963	0.0300	0.300	10	04/05/2021 12:07	WG1644694
Calcium	77.0		0.0936	1.00	1.00	1	04/03/2021 13:03	WG1644694

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	1640		25.0	25.0	1	04/01/2021 10:03	WG1643882

¹ Cp

² Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	132		7.58	1.00	20.0	20	04/05/2021 04:28	WG1645238
Fluoride	0.480		0.0640	0.150	0.150	1	04/05/2021 04:11	WG1645238
Sulfate	1130		11.9	5.00	100	20	04/05/2021 04:28	WG1645238

³ Ss

⁴ Cn

⁵ Tr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	5.80		0.0963	0.0300	0.300	10	04/05/2021 12:11	WG1644694
Calcium	229		0.0936	1.00	1.00	1	04/03/2021 13:06	WG1644694

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch
Dissolved Solids	1510		20.0	20.0	1	04/01/2021 10:03	WG1643882

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Chloride	129		7.58	1.00	20.0	20	04/05/2021 05:33	WG1645238
Fluoride	0.0725	J	0.0640	0.150	0.150	1	04/05/2021 05:17	WG1645238
Sulfate	1010		11.9	5.00	100	20	04/05/2021 05:33	WG1645238

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Boron	6.16		0.0963	0.0300	0.300	10	04/05/2021 12:14	WG1644694
Calcium	213		0.0936	1.00	1.00	1	04/03/2021 13:09	WG1644694

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

Method Blank (MB)

(MB) R3637813-1 03/31/21 13:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	10.0		10.0	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

L1331231-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1331231-03 03/31/21 13:56 • (DUP) R3637813-3 03/31/21 13:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	284	288	1	1.40		5

L1331231-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1331231-04 03/31/21 13:56 • (DUP) R3637813-4 03/31/21 13:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	175	248	1	34.5	J3	5

Laboratory Control Sample (LCS)

(LCS) R3637813-2 03/31/21 13:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8730	99.2	77.4-123	

Method Blank (MB)

(MB) R3637795-1 03/31/21 18:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1332306-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1332306-04 03/31/21 18:27 • (DUP) R3637795-3 03/31/21 18:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	204	206	1	0.976		5

⁴Cn

⁵Tr

L1332306-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1332306-05 03/31/21 18:27 • (DUP) R3637795-4 03/31/21 18:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	342	340	1	0.587		5

⁶Sr

⁷Qc

Laboratory Control Sample (LCS)

(LCS) R3637795-2 03/31/21 18:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8600	97.7	77.4-123	

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3637599-1 04/01/21 10:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1332054-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1332054-01 04/01/21 10:03 • (DUP) R3637599-3 04/01/21 10:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	952	1020	1	7.29	J3	5

⁴Cn

⁵Tr

L1332054-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1332054-02 04/01/21 10:03 • (DUP) R3637599-4 04/01/21 10:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	797	812	1	1.82		5

⁶Sr

⁷Qc

Laboratory Control Sample (LCS)

(LCS) R3637599-2 04/01/21 10:03

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8540	97.0	77.4-123	

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3638248-1 04/02/21 16:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1331914-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1331914-01 04/02/21 16:00 • (DUP) R3638248-3 04/02/21 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	428	430	1	0.466		5

⁴Cn

⁵Tr

Laboratory Control Sample (LCS)

(LCS) R3638248-2 04/02/21 16:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8670	98.5	77.4-123	

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3638068-1 04/04/21 21:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

L1332306-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1332306-03 04/05/21 00:54 • (DUP) R3638068-3 04/05/21 01:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	47.7	47.7	1	0.00943		15
Fluoride	0.117	0.121	1	3.69	J	15

L1332306-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1332306-03 04/05/21 02:00 • (DUP) R3638068-4 04/05/21 02:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	173	173	5	0.130		15

L1333898-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1333898-01 04/05/21 07:28 • (DUP) R3638068-7 04/05/21 07:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	21.2	21.2	1	0.0118		15
Fluoride	0.0655	0.0815	1	21.8	J P1	15
Sulfate	33.4	33.5	1	0.170		15

Laboratory Control Sample (LCS)

(LCS) R3638068-2 04/04/21 21:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	40.4	101	80.0-120	
Fluoride	8.00	8.26	103	80.0-120	
Sulfate	40.0	40.2	100	80.0-120	

L1332306-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1332306-04 04/05/21 02:33 • (MS) R3638068-5 04/05/21 02:49 • (MSD) R3638068-6 04/05/21 03:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	5.32	53.2	53.4	95.8	96.2	1	80.0-120			0.347	15
Fluoride	5.00	2.18	7.05	7.07	97.3	97.7	1	80.0-120			0.266	15
Sulfate	50.0	42.9	89.4	89.6	92.9	93.4	1	80.0-120			0.270	15

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3637805-1 04/03/21 10:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Calcium	U		0.0936	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

Method Blank (MB)

(MB) R3638085-1 04/05/21 08:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Boron	U		0.00963	0.0300

⁶Sr

⁷Qc

Laboratory Control Sample (LCS)

(LCS) R3637805-6 04/03/21 13:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Calcium	5.00	4.73	94.6	80.0-120	

⁸Gl

⁹Al

Laboratory Control Sample (LCS)

(LCS) R3638085-2 04/05/21 08:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Boron	0.500	0.482	96.3	80.0-120	

¹⁰Sc

L1332289-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1332289-03 04/03/21 10:53 • (MS) R3637805-4 04/03/21 11:00 • (MSD) R3637805-5 04/03/21 11:03

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Calcium	5.00	5.91	10.5	10.6	92.6	93.7	1	75.0-125			0.538	20

L1332289-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1332289-03 04/05/21 08:24 • (MS) R3638085-4 04/05/21 08:31 • (MSD) R3638085-5 04/05/21 08:35

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Boron	0.500	0.0279	0.492	0.512	92.8	96.9	1	75.0-125			4.04	20

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.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
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.
J3	The associated batch QC was outside the established quality control range for precision.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.



ACCREDITATIONS & LOCATIONS

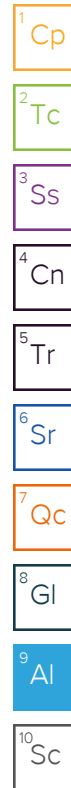
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



Commercial Liability Partners, LLC

2275 Cassens Drive
Suite 118
Fenton, MO 63026

Report to:
Adam Kaiser

Project Description:
Golden Eagle Groundwater **CCR**

Phone: **314-624-1604**

Collected by (print):
Jeff Norfleet

Collected by (signature):
Jeff Norfleet

Immediately Packed on Ice N Y

Billing Information:

Mr. Ronald Carroll
2275 Cassens Drive
Suite 118
Fenton, MO 63026

Email To:
adam.kaiser@atonenv.com; jeffnorfleet@hotmail.com

City/State Collected: **Mt. Pleasant, TX**

Please Circle:
PT MT CT ET

Client Project #

Lab Project #
COMLIAFMO-GOLDEAGLE

Site/Facility ID #
Golden Eagle

P.O. #

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

Quote #

Date Results Needed

Pres
Chk

Analysis / Container / Preservative

Anions - Cld, F, SO4 125mlHDPE-NoPres
B, Ca - 6020 250mlHDPE-HNO3
TDS 250mlHDPE-NoPres

Chain of Custody Page ___ of ___



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # **1332306**
J135

Acctnum: **COMLIAFMO**

Template: **T175182**

Prelogin: **P800336**

PM: **206 - Jeff Carr**

PB: **cf 9/28/2020**

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs												
W-29	Grab	GW	22.0	3-29-21	1400	3	X	X	X									
W-30		GW	15.7	3-24-21	1915	3	X	X	X									-02
W-31		GW	11.9	3-24-21	1830	3	X	X	X									-03
W-32		GW	12.2	3-24-21	1745	3	X	X	X									-04
W-33		GW	22.9	3-24-21	1200	3	X	X	X									-05
W-34		GW	22.0	3-29-21	1300	3	X	X	X									-06
W-35	↓	GW	22.6	3-25-21	1700	3	X	X	X									-07
		GW				3	X	X	X									

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

Remarks:

Samples returned via:
 UPS FedEx Courier

Tracking # **9517 8762 3251**

pH _____ Temp _____
 Flow _____ Other _____

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

Relinquished by: (Signature) <i>Jeff Norfleet</i>	Date: 3-29-21	Time: 1500	Received by: (Signature) <i>[Signature]</i>	Trip Blank Received: Yes / No HCL / MeOH TBR	Temp: 3.87, 20.4, 21	Bottles Received:	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	Hold:	Condition? NCF <input checked="" type="checkbox"/> OK