

April 14, 2023

Texas Commission on Environmental Quality Industrial and Hazardous Waste Permits Section - CCR MC-130 PO Box 13087 Austin, Texas 78711-3087

RE: Monticello Steam Electric Station – Ash Settling Ponds – CCR Annual Groundwater Report

On behalf of Golden Eagle Development, LLC (Golden Eagle), Gemini Engineering is submitting the 2022 Annual CCR Groundwater Monitoring Report for the ash settling ponds at the former Monticello Steam Electric Station (MOSES).

Based on the attached report, we are recommending closure of the CCR unit prior to approval of the CCR registration. The CCR registration application can be withdrawn, and groundwater Detection Monitoring can be discontinued.

Please contact me at (512) 566-6878 or A.Kaiser@GeminiSTL.com if you have any questions or comments.

Sincerely,

Clan J. Kaiser

Adam J. Kaiser, PE Senior Project Engineer **Gemini Engineering, LLC**

CC: Golden Eagle Development



Texas Commission on Environmental Quality Waste Permits Division Correspondence Cover Sheet

Date: <u>4/14/2023</u> Facility Name: <u>Monticello Steam Electric Station</u> Permit or Registration No.: <u>CCR114</u> Nature of Correspondence:

Initial/New

Response/Revision to TCEQ Tracking No.: _____ (from subject line of TCEQ letter regarding initial submission)

Affix this cover sheet to the front of your submission to the Waste Permits Division. Check appropriate box for type of correspondence. Contact WPD at (512) 239-2335 if you have questions regarding this form.

Applications	Reports and Notifications
New Notice of Intent	Alternative Daily Cover Report
Notice of Intent Revision	Closure Report
New Permit (including Subchapter T)	Compost Report
New Registration (including Subchapter T)	Groundwater Alternate Source Demonstration
🗌 Major Amendment	Groundwater Corrective Action
Minor Amendment	Groundwater Monitoring Report
Limited Scope Major Amendment	Groundwater Background Evaluation
Notice Modification	Landfill Gas Corrective Action
Non-Notice Modification	Landfill Gas Monitoring
Transfer/Name Change Modification	Liner Evaluation Report
Temporary Authorization	🗌 Soil Boring Plan
Uvoluntary Revocation	Special Waste Request
Subchapter T Disturbance Non-Enclosed Structure	Other:
Other:	

Table 1 - Municipal Solid Waste Correspondence

Table 2 - Industrial & Hazardous Waste Correspondence

Applications	Reports and Responses
□ New	Annual/Biennial Site Activity Report
🗌 Renewal	CPT Plan/Result
Post-Closure Order	Closure Certification/Report
🗌 Major Amendment	Construction Certification/Report
Minor Amendment	CPT Plan/Result
CCR Registration	Extension Request
CCR Registration Major Amendment	Groundwater Monitoring Report
CCR Registration Minor Amendment	🗌 Interim Status Change
Class 3 Modification	Interim Status Closure Plan
Class 2 Modification	Soil Core Monitoring Report
Class 1 ED Modification	Treatability Study
Class 1 Modification	🗌 Trial Burn Plan/Result
Endorsement	Unsaturated Zone Monitoring Report
Temporary Authorization	U Waste Minimization Report
Voluntary Revocation	Other:
335.6 Notification	
Other:	



2022 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:

Gemini Engineering LLC 2275 Cassens Drive, Suite 118 Fenton, Missouri 63026

April 2023



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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 as an update to the 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 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 Ash Settling 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 2022, 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 in 2021. In 2022, it was discovered that the demolition contractors have damaged W-29; however, groundwater sample was collected from that well in December. The following table provides a summary of the Detection Monitoring Program:

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
May 2022	Appendix III	No	No
December 2022	Appendix III	No	No

Detection Monitoring Program Summary

The statistical background values and Appendix III analytical data are presented in Tables 1 and 2, respectively, and the 2022 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 2022. The analytical data from the 2022 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 2022**

Detection Monitoring Program groundwater monitoring events were completed in May & December 2022. 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 2022.



4.0 **PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS**

The demolition of the steam generating units caused unsafe conditions near W-29 in 2021, then the monitoring well was damaged. The monitoring well was found, and the damage was above ground to the upper riser, so the monitoring well was salvageable. The monitoring well has not been resurveyed, but it was purged, and a sample was collected in December.



5.0 KEY ACTIVITIES PLANNED FOR 2023

The following key activities are planned for 2023:

• Discontinue the Detection Monitoring Program due site closure per 30 TAC 352, Subchapter J.



6.0 **REFERENCES**

Gemini Engineering, LLC, 2022. Coal Combustion Residual Rule Groundwater Sampling Analysis Plan, Former Monticello Steam Electric Station, Ash Ponds, Mount Pleasant, Texas. November.

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



Signature Page

Alan J. Kaiser

Adam J. Kaiser, P.E. Senior Project Engineer **Gemini Engineering, LLC** Texas PE No 126387, Expires 3/31/2024 Texas Engineering Firm F-23183



4/11/2023

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 $(S0_4)$ (mg/L)	1,190
Total Dissolved Solids (TDS) (mg/L)	2,150

Table 2 Analytical Results MOSES CCR BAP Monitoring 2022

Sample Location	Date Sampled	B (mg/L)	Ca (mg/L)	CI (mg/L)	F (mg/L)	pH (s.u.)	SO ₄ (mg/L)	TDS (mg/L)
Upgradient Wells							-	
W-31	10/15/15	3.74	130	66.2	0.14	5.67	808	1,510
	12/07/15	3.81	136	51.2	0.28 J	5.86	/14	1,250
	02/22/18	3.05	130	49.2	0.12	6.06	737	1,500
	06/06/16	3.84	104	47.8	<0.10	6.17	701	1,220
	08/08/16	2.67	92.4	58.4	<0.10	6.11	396	862
	10/12/16	1.74	71.7	55.1	0.11	6.13	292	654
	12/29/16	3.15	89.7	49.3	<0.10	4.99	729	1,150
	09/20/17	3.88	96.3	49.8	<0.10	6.72	316	696
	06/08/18	3.28	86.3	48.6	0.30 J	6.72	577	925
	05/00/10	3.19	80.5 26.5	40.3	0.22 J	4.84	595 115	9/3
	10/30/19	1.29	35.6	49.1	0.10 J	6.84	131	343
	04/26/20	0.79	34.4	51.1	0.09 J	7.41	86	279
	10/31/20	1.27	36.9	48.3	0.08 J	6.60	156	384
	03/24/21	1.38	41.4	47.7	0.12 J	5.59	173	373
	08/15/21	1.84	51.6	49.9	0.07 J	5.52	242	400
	05/30/22	2.06	57.5	57.0	0.167	5.44	409	477
14/ 22	12/3/2022	1.15	36.5	49.3	0.0737	5.19	161	362
VV-32	12/07/15	5.05	262	100	0.44	6.74	872	1,970
	02/22/16	6.95	247	124	0.79	6.74	850	1.870
	04/04/16	6.50	239	139	1.01	6.73	844	1,380
	06/06/16	6.18	192	105	0.76	6.71	694	1,440
	08/08/16	4.43	261	110	0.54	6.71	945	1,650
	10/12/16	6.32	284	134	0.34	6.19	986	1,820
	12/29/16	6.38	310	147	0.57	6.46	1,210	1,950
	09/20/17	5.81	270	118	0.38 J	6.79	901	1,920
	09/10/18	5 38	370	149	1.71	6.56	1,340	2,390
	05/09/19	3.83	91	21.9	1.83	6.73	236	479
	10/30/19	4.24	130	35.0	1.7	6.91	363	746
	04/26/20	1.96	48.6	9.7	2.29	8.72	96	290
	10/31/20	2.85	64.8	12.5	1.34	8.16	141	344
	03/24/21	1.62	40.0	5.32	2.18	7.09	42.9	204
	08/15/21	2.07	52.3	9.64	1.75	7.12	76.3	1,970 1,970 1,610 1,870 1,380 1,440 1,650 1,820 1,950 1,920 2,390 2,200 479 746 290 344 204 270 266 347 1,630 1,680 1,960 1,540 1,540 1,970 2,230 2,120 775 911 580 387
	05/30/22	1.97	266	8.68	1.40	7.14	51.2	266
W/ 22	12/3/2022	1.43 6.26	78.9	162	1.72	7.25	1.090	347 1.630
VV-55	12/07/15	6.68	252	102	2.01	7.14	853	1,680
	02/22/16	7.52	243	124	2.40	7.11	790	1,960
	04/04/16	7.24	278	171	2.50	7.14	935	1,540
	06/06/16	7.08	229	120	2.12	7.10	700	1,490
	08/08/16	6.37	215	108	1.92	6.97	655	1,300
	10/12/16	5.15	237	111	2.43	6.84	797	1,540
	09/20/17	5.23	275	125	2.25	6.73	900	1,730
	06/08/18	6.01	364	142	3.59	6.55	1.200	2,230
	09/10/18	5.45	351	132	2.99	6.78	1,160	2,120
	05/09/19	3.41	93.7	36.7	1.41	6.85	443	775
	10/30/19	5.18	169	39.7	1.21	6.68	477	911
	04/26/20	3.43	96.4	17.7	3.13	8.35	171	580
	11/01/20	2.33	80.9	10.8	3.73	8.39	104	387
	08/15/21	2.32	61.7	8.05	3.40	7.10	51 /	34Z 205
	05/30/22	1.10	77.5	10.4	2.93	7.05	82.9	368
	12/3/2022	1.17	80.9	9.08	3.46	7.24	97.2	337
Downgradient We	ells							
W-29	10/15/15	4.58	111	101	0.32 J	6.21	861	1,680
	12/07/15	3.47	86.6	81.1	0.36 J	6.22	501	1,020
	02/22/16	4.98	114	82.3	0.24	6.27	909	1,840
	06/06/16	5.32	169	75.9	0.23 J	6.20	465	850
	08/08/16	5.70	152	85.6	<0.10	6.32	1 100	1 850
	10/12/16	6.42	174	82.4	0.40	6.19	1,140	1,720
	12/29/16	6.52	185	82.5	0.23 J	6.14	1,150	1,860
	09/20/17	4.84	128	80.6	<0.10	6.85	882	1,540
	06/08/18	3.70	127	87.9	0.37 J	6.62	694	1,310
	09/10/18	4.14	140	81.5	0.41	6.30	858	1,630
	05/10/19	1.94	95.4	92.1	0.21 J	6.85	361	727
	10/30/19	1.69	100	ຽດ.1 ຊຂາ	0.24 J	6.52 6.70	252	621 562
	11/01/20	1.30	84	88.1	0.14.0	6.98	210	517
	03/29/21	1.25	89.9	83.3	0.15 J	6.95	224	495
	08/15/21	NA	NA	NA	NA	NA	NA	NA
	05/30/21	NA	NA	NA	NA	NA	NA	NA
	12/17/2022	4.43	122	82.0	0.339	6.60	790	1370

Table 2
Analytical Results
MOSES CCR BAP Monitoring 2022

Sample Location	Date Sampled	B (mg/L)	Ca (mg/L)	CI (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	1,490
	12/07/15	7.04	135	98.3	0.81	5.95	875	1,530
	02/22/16	6.83	138	96.3	0.72	5.94	873	1,790
	04/04/16	6.28	141	95.2	0.96	5.93	925	1,460
	06/06/16	6.89	132	94.9	0.36 J	5.96	884	1,460
	08/08/16	5.94	136	85.7	0.45	6.23	848	1,550
	10/12/16	6.51	130	79.9	0.79	6.02	817	1,300
	12/29/16	8.54	192	85.3	0.50	5.34	863	1,510
	09/20/17	5.76	127	76.5	0.394 J	6.85	734	1,570
	06/08/18	5.06	127	87.8	0.92	6.78	724	1,280
	09/10/18	4.53	115	81.1	0.91	5.25	713	1,230
	05/09/19	5.13	115	97.5	0.85	6.72	734	1,300
	10/30/19	5.06	161	59.4	0.57	6.43	755	1,330
	04/26/20	4.18	135	51.4	0.69	7.49	763	1,150
	10/31/20	4.26	141	44.0	0.68	7.11	735	1,140
	03/24/21	4.33	133	40.5	0.58	5.67	686	1,070
	06/15/21	4.01	100	33.4	0.82	5.63	000	979
	05/30/22	4.04	112	43.6	0.70	5.61	662	1,090
W/ 24	12/3/2022	4.0	119	45.4	0.813	5.56	636	1,030
VV-34	10/13/13	2.30	124	07.1	0.36 J	0.55	403	1 500
	02/22/16	4.10	100	85.0	0.49	0.58	641	1,500
	02/22/10	3.44	86.0	80.7	0.42	6.63	379	917
	04/04/10	2.09	66.2	73.0	0.207 J	6.64	3/3	705
	08/08/16	3.56	121	08.4	<0.1	6.52	634	1 030
	10/12/16	3.13	110	84.9	0.20	6.57	556	935
	12/29/16	6.10	158	122	0.29	6.03	037	1 620
	09/20/17	5.36	181	117	0.330 J	6.75	873	1,020
	06/08/18	4 95	180	116	0.2440	6.85	835	1,720
	09/10/18	4.53	161	110	0.90	6.64	819	1,540
	05/09/19	1.50	64 7	45.1	0.348.1	6.78	164	568
	10/30/19	4 11	154	103	0.322 J	6.62	677	1 260
	04/26/20	4 26	182	108	0.44	7.67	817	1,200
	11/01/20	5 47	217	114	0.35	7.50	930	1,560
	03/24/21	5.80	229	132	0.48	6.20	1,130	1,640
	08/15/21	4.83	210	125	0.35	6.16	933	1.620
	05/30/22	5.61	220	108	0.29	6.30	918	1.800
	12/17/2022	5.67	216	122	0.19	6.38	973	1.600
W-35	10/15/15	5.58	175	98.2	<0.1	6.05	893	1,720
	12/07/15	6.13	177	90.2	0.128 J	6.16	861	1,580
	02/22/16	6.29	160	85.4	<0.1	6.12	824	1,650
	04/04/16	6.16	169	91.3	<0.1	6.09	835	1,310
	06/06/16	6.17	158	98.5	<0.1	6.36	858	1,460
	08/08/16	6.07	159	97.8	<0.1	6.41	810	1,470
	10/12/16	6.25	150	97.8	0.1	6.12	793	1,320
	12/29/16	6.89	151	110	<0.1	5.06	839	1,370
	09/20/17	6.27	186	120	<0.100	6.74	854	1,650
	06/08/18	5.81	200	128	0.163 J	6.55	925	1,660
	09/10/18	5.70	204	132	<0.1	5.42	940	1,580
	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	1,280
	10/30/2019 DUP	4.57	142	99.1	<0.100	6.92	699	1,280
	04/26/20	5.30	209	129	<0.150	6.50	984	1,600
	11/01/20	5.95	207	118	<0.064	6.73	945	1,550
	03/25/21	6.16	213	129	0.0725 J	5.29	1,010	1,510
	08/15/21	6.04	216	137	<0.0640	5.70	992	1,650
	05/30/22	5.26	232	115	<0.15	5.42	946	1,670
	12/17/2022	5.55	228	104	<0.15	5.6	942	1,520

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





APPENDIX A - 2022 LABORATORY ANALYTICAL REPORTS



Pace Analytical® ANALYTICAL REPORT December 30, 2022

GEMINI Engineering

Sample Delivery Group: Samples Received:

Project Number:

Description:

Site:

Report To:

L1569557 12/20/2022

Monticello GW - Mt. Pleasant, TX **GOLDEN EAGLE** Adam Kaiser 2275 Cassens Drive Suite 118 Fenton, MO 63026

Тс Ss Cn . Tr Śr Qc GI AI Sc

Entire Report Reviewed By: [\]

John V Hankins

John Hawkins 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: **GEMINI** Engineering PROJECT:

SDG: L1569557

DATE/TIME: 12/30/22 12:21 PAGE: 1 of 19

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SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
W-34 L1569557-01 GW			Jeff Norfleet	12/17/22 09:00	12/20/22 09:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1979379	1	12/25/22 12:34	12/27/22 09:33	TDW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1978011	1	12/22/22 06:20	12/22/22 06:20	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1978011	20	12/22/22 07:08	12/22/22 07:08	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1978544	1	12/22/22 13:03	12/26/22 17:53	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1978544	50	12/22/22 13:03	12/26/22 19:39	LD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
W-29 L1569557-02 GW			Jeff Norfleet	12/17/22 10:00	12/20/22 09:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1979379	1	12/25/22 12:34	12/27/22 09:33	TDW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1978011	1	12/22/22 07:24	12/22/22 07:24	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1978011	5	12/22/22 07:40	12/22/22 07:40	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1978544	1	12/22/22 13:03	12/26/22 18:13	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1978544	50	12/22/22 13:03	12/26/22 19:42	LD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
W-35 L1569557-03 GW			Jeff Norfleet	12/17/22 11:00	12/20/22 09:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1979379	1	12/25/22 12:34	12/27/22 09:33	TDW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1978011	1	12/22/22 07:56	12/22/22 07:56	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1978011	20	12/22/22 08:12	12/22/22 08:12	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1978544	1	12/22/22 13:03	12/26/22 18:16	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1978544	50	12/22/22 13:03	12/26/22 19:45	LD	Mt. Juliet, TN

SDG: L1569557 Ср

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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.

VHputino

John Hawkins Project Manager



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.

John Hawkins Project Manager

SDG: L1569557

Laboratory Review Checklist: Reportable Data

Labo	orato	ry Name: Pace Analytical National	LRC Date: 12/30/2022 12:21								
Proj	ect N	lame: Monticello GW - Mt. Pleasant, TX	Laboratory Job Number: L1569557-01, 02 and 03								
Revi	iewe	r Name: John Hawkins	Prep Batch Number(s): WG1978011, WG1978544 and V	VG1979	379		-	-			
# ¹	A ²	Description		Yes	No	NA ³	NR⁴	ER# ⁵			
R1	OI	Chain-of-custody (C-O-C)									
		Did samples meet the laboratory's standard conditions	of sample acceptability upon receipt?	Х							
		Were all departures from standard conditions described	d in an exception report?			Х					
R2	OI	Sample and quality control (QC) identification									
		Are all field sample ID numbers cross-referenced to the	umbers cross-referenced to the laboratory ID numbers? X								
		Are all laboratory ID numbers cross-referenced to the c	orresponding QC data?	Х							
R3	OI	Test reports									
		Were all samples prepared and analyzed within holding	g times?	Х			Ι				
		Other than those results < MQL, were all other raw value	es bracketed by calibration standards?		Х		1	1			
		Were calculations checked by a peer or supervisor?	·	Х							
		Were all analyte identifications checked by a peer or su	upervisor?	х							
		Were sample detection limits reported for all analytes r	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 sec	liment samples?			×	<u> </u>				
		Were bulk soils/solids samples for volatile analysis extr	acted with methanol per SW846 Method 50352								
		If required for the project are TICs reported?									
D4		Surregete receivery date					I	I			
R4	0	Surrogate recovery data			-		1	1			
		Were surrogates added prior to extraction?	- the lab - material OC limited			_ ^	<u> </u>				
		were surrogate percent recoveries in all samples within	n the laboratory QC limits?	×			I				
R5	OI	lest reports/summary forms for blank samples			1	1	1	1			
		Were appropriate type(s) of blanks analyzed?		X			ļ				
		Were blanks analyzed at the appropriate frequency?		Х			 				
		Were method blanks taken through the entire analytica cleanup procedures?	I process, including preparation and, if applicable,	Х							
		Were blank concentrations < MQL?		Х							
R6	OI	Laboratory control samples (LCS):									
		Were all COCs included in the LCS?		Х							
		Was each LCS taken through the entire analytical proce	edure, including prep and cleanup steps?	Х							
		Were LCSs analyzed at the required frequency?		Х							
		Were LCS (and LCSD, if applicable) %Rs within the labo	ratory QC limits?	Х							
		Does the detectability check sample data document the used to calculate the SDLs?	e laboratory's capability to detect the COCs at the MDL	х							
		Was the LCSD RPD within QC limits?		Х			1				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data	3					•			
		Were the project/method specified analytes included in	the MS and MSD?	Х		1	Γ				
		Were MS/MSD analyzed at the appropriate frequency?		х							
		Were MS (and MSD, if applicable) %Rs within the labora	atory QC limits?		х			2			
		Were MS/MSD RPDs within laboratory QC limits?		Х			1				
R8	0	Analytical duplicate data				1		1			
		Were appropriate analytical duplicates analyzed for each	ch matrix?	Х	I	1	T				
		Were analytical duplicates analyzed at the appropriate	frequency?	X			<u> </u>				
		Were RPDs or relative standard deviations within the la	horatory OC limits?	X			<u> </u>				
DQ	\cap	Mothed quantitation limits (MOLs):		~		I	I	I			
K5		Are the MOLs for each method analyte included in the	laboratory data packaga?	V		1	<u> </u>				
		Do the MOL's correspond to the concentration of the lo	west non zero calibration standard?								
		Are upediated MOLe and DCCs included in the laboration		$\hat{}$							
D10		Are unadjusted Moles and DCSS included in the laborat					1				
RIU	0		eted in this LDC and ED2	V	-	T	1				
		Was applicable and available technology used to lower	the SDL to minimize the matrix interference effects on	X							
		Is the laboratory NELAC-accredited under the Texas La	boratory Accreditation Program for the analytes, matrices	x							
		and methods associated with this laboratory data pack	age?		<u> </u>	<u> </u>					
 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 "should be retained and made available upon request for the appropriate retention period. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); NA = Not applicable; Not reviewed; 								"S"			

Laboratory Review Checklist: Supporting Data

Lab	orato	ry Name: Pace Analytical National	LRC Date: 12/30/2022 12:21									
Proj	ject N	Jame: Monticello GW - Mt. Pleasant, TX	Laboratory Job Number: L1569557-01, 02 and 03									
Rev	iewe	r Name: John Hawkins	Prep Batch Number(s): WG1978011, WG1978544 and	WG1979	9379							
#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	s for each analyte within QC limits?		1	Х	T					
		Were percent RSDs or correlation coefficient criteria m	et?	X			1					
		Was the number of standards recommended in the me	thod used for all analytes?	X								
		Were all points generated between the lowest and hig	hest standard used to calculate the curve?	X			1					
		Are ICAL data available for all instruments used?		X								
		Has the initial calibration curve been verified using an	appropriate second source standard?	X								
52	0	Initial and continuing calibration verification (ICCV and	CCV) and continuing calibration blank (CCB):	<u> </u>		1	<u> </u>	1				
02	101	Was the CCV analyzed at the method-required frequer		X	1	1	T	1				
		Were percent differences for each analyte within the m	hethod-required QC limits?				+					
		Was the ICAL curve verified for each analyte?					+					
		Was the absolute value of the analyte concentration in	the inerganic CCR < MDL2									
63		Mass sportral tuning		<u> </u>	I		<u> </u>	I				
33	0	Was the appropriate compound for the method used for	ar tuning?		r –	1	T	1				
		Was the appropriate compound for the method used to		+								
C 4		were ion abundance data within the method-required			L							
54	0	Internal standards (IS)	the diversities of QC limite?		1	1	<u> </u>	1				
05		Were IS area counts and retention times within the me	thoa-required QC limits?	<u>×</u>			<u> </u>					
55	0	Raw data (NELAC Section 5.5.10)			1	1	1	1				
		Were the raw data (for example, chromatograms, spec	trai data) reviewed by an analyst?	X			-					
	-	Were data associated with manual integrations flagged	d on the raw data?			Х						
56	0	Dual column confirmation		-	<u> </u>	1		1				
		Did dual column confirmation results meet the method	-required QC?			X						
S7	0	Tentatively identified compounds (TICs)			-	1		1				
	_	If TICs were requested, were the mass spectra and TIC	C data subject to appropriate checks?			Х						
S8	I	Interference Check Sample (ICS) results										
		Were percent recoveries within method QC limits?		X								
S9	Ι	Serial dilutions, post digestion spikes, and method of s	tandard 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	s of DCSs?	X								
S11	OI	Proficiency test reports										
		Was the laboratory's performance acceptable on the a	pplicable proficiency tests or evaluation studies?	Х								
S12	OI	Standards documentation		_		_						
		Are all standards used in the analyses NIST-traceable of	or obtained from other appropriate sources?	X								
S13	OI	Compound/analyte identification procedures										
		Are the procedures for compound/analyte identificatio	n documented?	Х								
S14	OI	Demonstration of analyst competency (DOC)										
		Was DOC conducted consistent with NELAC Chapter 5	5?	X								
	Is documentation of the analyst's competency up-to-date and on file?											
S15	OI	Verification/validation documentation for methods (NE	LAC Chapter 5)									
		Are all the methods used to generate the data docume	ented, verified, and validated, where applicable?	Х								
S16	OI	Laboratory standard operating procedures (SOPs)		-		-						
		Are laboratory SOPs current and on file for each metho	od performed	X								
1. Iter shoul 2. O 3. N/	ms ide Id be r = orga A = No	ntified by the letter "R" must be included in the laborato etained and made available upon request for the approp inic analyses; I = inorganic analyses (and general chemis t applicable;	ry data package submitted in the TRRP-required report(s). oriate retention period. stry, when applicable);	Items i	dentifi	ed by th	ie letter	"S"				

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laborato	ry Name: Pace Analytical National	LRC Date: 12/30/2022 12:21					
Project N	lame: Monticello GW - Mt. Pleasant, TX	Laboratory Job Number: L1569557-01, 02 and 03					
Reviewe	r Name: John Hawkins	Prep Batch Number(s): WG1978011, WG1978544 and WG1979379					
ER # ¹	Description						
1	9056A WG1978011 R3874939-3 and 4: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).						
2	9056A WG1978011 Chloride: Percent Recovery is outside of established control limits. 6020 WG1978544 Calcium: Percent Recovery is outside of established control limits. 9056A WG1978011 Fluoride: Percent Recovery 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. NB = Not reviewed:							

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SAMPLE RESULTS - 01

Gravimetric Analysis by Method 2540 C-2011

-								Cn
	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l		date / time		2
Dissolved Solids	1600		25.0	25.0	1	12/27/2022 09:33	WG1979379	ГС

Wet Chemistry by Method 9056A

Collected date/time: 12/17/22 09:00

	, ,										S
		Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch		
Analyte		mg/l		mg/l	mg/l	mg/l		date / time		-	4
Chloride		122		0.379	1.00	1.00	1	12/22/2022 06:20	WG1978011		0
Fluoride		0.186		0.0640	0.150	0.150	1	12/22/2022 06:20	WG1978011	0	5
Sulfate		973		11.9	5.00	100	20	12/22/2022 07:08	WG1978011		T

Metals (ICPMS) by Method 6020

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Boron	5.67		0.482	0.0300	1.50	50	12/26/2022 19:39	WG1978544
Calcium	216		0.0936	1.00	1.00	1	12/26/2022 17:53	WG1978544

SAMPLE RESULTS - 02

Gravimetric Analysis by Method 2540 C-2011

								l'Cn
	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch	Cp
Analyte	mg/l		mg/l	mg/l		date / time		2
Dissolved Solids	1370		20.0	20.0	1	12/27/2022 09:33	WG1979379	Tc

Wet Chemistry by Method 9056A

									- I N	ر.
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— L	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		4	
Chloride	82.0		0.379	1.00	1.00	1	12/22/2022 07:24	WG1978011	$ \Box$	~
Fluoride	0.339		0.0640	0.150	0.150	1	12/22/2022 07:24	WG1978011	5	_
Sulfate	790		2.97	5.00	25.0	5	12/22/2022 07:40	WG1978011	Ĩ	Γ

Metals (ICPMS) by Method 6020

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Boron	4.43		0.482	0.0300	1.50	50	12/26/2022 19:42	WG1978544
Calcium	122		0.0936	1.00	1.00	1	12/26/2022 18:13	WG1978544



SAMPLE RESULTS - 03

Gravimetric Analysis by Method 2540 C-2011

								l'Cn
	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch	Cp
Analyte	mg/l		mg/l	mg/l		date / time		2
Dissolved Solids	1520		25.0	25.0	1	12/27/2022 09:33	WG1979379	Tc

Wet Chemistry by Method 9056A

										0.
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— L	
Analyte	mg/l		mg/l	mg/l	mg/l		date / time		4	
Chloride	104		0.379	1.00	1.00	1	12/22/2022 07:56	WG1978011		C
Fluoride	U		0.0640	0.150	0.150	1	12/22/2022 07:56	WG1978011	5	_
Sulfate	942		11.9	5.00	100	20	12/22/2022 08:12	WG1978011		Τı

Metals (ICPMS) by Method 6020

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Boron	5.55		0.482	0.0300	1.50	50	12/26/2022 19:45	WG1978544
Calcium	228		0.0936	1.00	1.00	1	12/26/2022 18:16	WG1978544

²Tc ³Ss ⁴Cn ⁵Tr ⁶Sr ⁷Qc ⁸Gl ⁹Al ¹⁰Sc

WG1979379

Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3876718-1 12/27/22	09:33			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1569522-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1569522-03 12/27/2	22 09:33 • (DUI	P) R3876718-3	12/27/22	09:33		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	505	529	1	4.64		5

L1569522-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1569522-04 12/27/2	22 09:33 • (DUF	P) R3876718-4	12/27/22	09:33		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	444	444	1	0.000		5

Laboratory Control Sample (LCS)

(LCS) R3876718-2 12/27/	22 09:33				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8010	91.0	77.3-123	

DATE/TIME: 12/30/22 12:21

PAGE: 12 of 19 Тс

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1569557-01,02,03

Method Blank (MB)

(MB)	R3874939-1	12/21/22	20:3
(IVIB)	R38/4939-1	12/21/22	20.5

(IVID) R30/4939-1 12/21/22	2 20.57				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	⁻Tc
Chloride	0.456	J	0.379	1.00	
Fluoride	U		0.0640	0.150	³ Ss
Sulfate	0.673	J	0.594	5.00	

L1569437-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1569437-01 12/22/22	2 03:09 • (DUP) R3874939-5	12/22/22	03:57		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	4.69	4.64	1	0.919		15
Fluoride	U	U	1	0.000		15
Sulfate	1.52	1.41	1	7.68	J	15

L1569522-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1569522-04 12/22/2	2 05:33 • (DUF	P) R3874939-6	12/22/22	05:49		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	13.6	13.7	1	0.474		15
Fluoride	0.120	0.119	1	0.923	J	15
Sulfate	83.7	83.4	1	0.370		15

Laboratory Control Sample (LCS)

(LCS) R3874939-2 12/21/2	2 20:53				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	41.0	103	80.0-120	
Fluoride	8.00	8.54	107	80.0-120	
Sulfate	40.0	39.1	97.8	80.0-120	

ACCOUNT:
GEMINI Engineering

DATE/TIME: 12/30/22 12:21 Ср

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1569334-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1569334-08 12/22/2	22 01:02 • (MS)	R3874939-3 1	2/22/22 01:18 •	(MSD) R38749	39-4 12/22/22	01:34						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	1640	1610	1620	0.000	0.000	1	80.0-120	EV	EV	0.566	15
Fluoride	5.00	U	2.85	2.95	57.1	58.9	1	80.0-120	<u>J6</u>	<u>J6</u>	3.17	15
Sulfate	50.0	0.797	48.0	47.8	94.4	94.0	1	80.0-120			0.457	15

L1569522-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1569522-04 12/22/2	22 05:33 • (MS)	R3874939-7 1	2/22/22 06:05	5			
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	13.6	64.4	101	1	80.0-120	
Fluoride	5.00	0.120	5.19	101	1	80.0-120	
Sulfate	50.0	83.7	131	94.4	1	80.0-120	

DATE/TIME: 12/30/22 12:21

WG1978544

Metals (ICPMS) by Method 6020

QUALITY CONTROL SUMMARY L1569557-01,02,03

Method Blank (MB)

Method Bidi	ik (IVID)				
(MB) R3875477-1	12/26/22 16:39				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	Тс
Calcium	U		0.0936	1.00	
					³ Ss

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Method Blank (MB)

(MB) R3875495-1 12/2	26/22 21:20			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Boron	U		0.00963	0.0300

Laboratory Control Sample (LCS)

(LCS) R3875477-2 12/26/22 16:43							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/l	mg/l	%	%			
Calcium	5.00	4.97	99.3	80.0-120			

Laboratory Control Sample (LCS)

(LCS) R3875495-2 12/26/22 21:24						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/l	mg/l	%	%		
Boron	0.500	0.510	102	80.0-120		

L1569334-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

,OS) L1569334-08 12/26/22 16:53 • (MS) R3875477-5 12/26/22 17:00 • (MSD) R3875477-6 12/26/22 17:03												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Calcium	5.00	454	459	454	94.1	0.000	5	75.0-125		V	1.16	20

L1569334-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1569334-08 12/26/22 21:27 • (MS) R3875495-4 12/26/22 21:34 • (MSD) R3875495-5 12/26/22 21:37												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	0.500	0.0938	0.561	0.555	93.4	92.3	5	75.0-125			0.912	20

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
GEMINI Engineering		L1569557	12/30/22 12:21	15 of 19

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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Τс

Ss

Cn

Tr

Śr

Qc

GI

AI

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee ¹⁴	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:			Billing Inform	nation:		T T	[A	nalvsis /	Container	/ Preservative		Chain of Custody	Page of
GEMINI Engineering			Maggie Po 2275 Cass Suite 118	eetz sens Drive		Pres Chk	3	Pres						- Pa	CCC advancing science
Suite 118			Fenton, N	10 63026			2	ž							
Fenton. MO 63026							F	1			1.00			MT JU	LIET, TN
Adam Kaiser		City/State		lam Kaiss	Please Ci	rcle:	1-130	Han						Submitting a sample vi constitutes acknowledg Pace Terms and Conditi https://info.pacelabs.cc	a this chain of custody ment and acceptance of the ons found at: im/hubfs/pas-standard-
Monticello GW	Client Drain	Collected:	Mt.Plea	sant, TX	PT MT C	TET	H	Sml	Set					terms.pdf	.9567
Phone: 512-566-6878	Client Proje	CC #		Lab Project #			0 m	e1	Nol					E014	1
Collected by (print): Jeff Norfleet	Site/Facility	ID #		P.O. #		9	0 35	tos	DPE					Acctnum: GEN	лғмо
Collected by (signature)	Rush?	(Lab MUST Be Day Five Day 5 Da	Notified) Day y (Rad Only)	Quote #	ts Needed	1	602	E, F,	H - 7				5	Template: Prelogin: PM: 206 - Jeff	Carr
Immediately Packed on Ice N Y	Two	Day 10 D 2 Day	ay (Rad Only)	1.		No. of	Ca.	lorid	2 H					PB: Shipped Via:	
Sample ID	Comp/Gra	b Matrix *	Depth	Date	Time	Cntrs	â	5	P					Remarks	Sample # (lab only)
W-34	Gra	, 6w	23.60	12-17-23	0900	3	X	X	X						-01
W-29	Grak	GW	15,50	12-17-22	1000	3	X		X			1996	1993		-02
W-35	Gral	GW	20.00	12-17-22	- 1100	3	X	X	X						-03
										ļ					
						+									
								<u> </u>]				Sample Receipt C	hecklist
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:					1				pH Flov	/	Temp Other	COC Sea COC Sig Bottles Correct	al Present/Intact gned/Accurate: s arrive intact: t bottles used: iert volume sent:	Y NP Y NN N
DW - Drinking Water OT - Other	Samples return UPSFee	ed via: IEx Courie	- <u></u>	Tracl	^{ing #} 588	32	755	63	\$55				VOA Sei	If Applical ro Headspace: vation Correct/CN	$\frac{-Y}{Y} = \frac{N}{N}$
Relinquished by : (Signature)		Date:	ZZ 14	e30 Rece	ived by: (Signa	ature)				Trip Bla	nk Receive	HCL / MeoH	RAD Set	reen <0.5 mR/hr:	N
Relinquished by: (Signature)		Date:	Time	: Rece	ived by: (Signa	ature)				161BA	2°C	Bottles Received:	If preservation required by Login: Date/Time		
Relinquished by : (Signature)		Date:	Time	: Rece	ived for lab by	<u>/: (</u> Signa	ature)			Date:	20	Time: 0900	Hold:		Condition: NCF / OK

 $\mathcal{K}(\mathcal{T}^{<}) \cong \mathcal{K}(\mathcal{T}^{<})$ (1¢.) 8615 My suply 12-19-22 11030 11-32 6.0 1000 11-11-12 1100 X X 1 - 1 1 600 13:10 14-11-18 1000 14 11 12 X X 01 - 2 A X X X 17 910 201 B, Ca - Aki harte 1.0020 102 AV HUKE 25th MS 1/664 Sound Huppe - HAVO3 Notice $I[k_i] \subset E_i$ MERIANA IX Spen Karsh



Pace Analytical® ANALYTICAL REPORT

December 19, 2022

GEMINI Engineering

Sample Delivery Group: Samples Received:

Project Number:

Description:

Site:

Report To:

L1566154 12/09/2022

Monticello GW - Mt. Pleasant, TX **GOLDEN EAGLE** Adam Kaiser 2275 Cassens Drive Suite 118 Fenton, MO 63026

Тс Ss Cn Ϋ́r Śr Qc GI AI Sc

Entire Report Reviewed By:

Juss law

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

ACCOUNT: **GEMINI Engineering** PROJECT:

SDG: L1566154

DATE/TIME: 12/19/22 07:11

PAGE: 1 of 22

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SDG: L1566154

SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
W-30 L1566154-01 GW			Jeff Norfleet	12/03/22 12:00	12/09/22 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1972370	1	12/10/22 11:29	12/10/22 11:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1973478	1	12/13/22 22:57	12/13/22 22:57	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1973478	10	12/13/22 23:13	12/13/22 23:13	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1973543	1	12/16/22 19:52	12/17/22 10:14	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1973543	50	12/16/22 19:52	12/18/22 18:22	LD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
W-31 L1566154-02 GW			Jeff Norfleet	12/03/22 11:00	12/09/22 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1972370	1	12/10/22 11:29	12/10/22 11:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1973516	1	12/14/22 19:07	12/14/22 19:07	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1973543	1	12/16/22 19:52	12/17/22 10:17	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1973543	10	12/16/22 19:52	12/18/22 18:26	LD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
W-32 L1566154-03 GW			Jeff Norfleet	12/03/22 10:00	12/09/22 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1972370	1	12/10/22 11:29	12/10/22 11:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1973516	1	12/14/22 19:45	12/14/22 19:45	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1973516	5	12/14/22 20:01	12/14/22 20:01	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1973543	1	12/16/22 19:52	12/17/22 10:20	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1973543	10	12/16/22 19:52	12/18/22 18:29	LD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
W-33 L1566154-04 GW			Jeff Norfleet	12/03/22 09:00	12/09/22 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1972370	1	12/10/22 11:29	12/10/22 11:52	MMF	Mt. Juliet, IN
Wet Chemistry by Method 9056A	WG1973516	1	12/14/22 20:23	12/14/22 20:23	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1973516	5	12/14/22 21:17	12/14/22 21:17	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1973543	1	12/16/22 19:52	12/17/22 10:24	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1973543	10	12/16/22 19:52	12/18/22 18:32	LD	Mt. Juliet, TN

SDG: L1566154 DATE/TIME: 12/19/22 07:11 Ср

Tc

Ss

Cn

⁵Tr

Sr

Qc

GI

A

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.

Juss land

Jeff Carr Project Manager



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.

Vupe law

Jeff Carr Project Manager

SDG: L1566154

Laboratory Review Checklist: Reportable Data

Labo	orato	ry Name: Pace Analytical National	LRC Date: 12/19/2022 07:11								
Proje	ect N	lame: Monticello GW - Mt. Pleasant, TX	Laboratory Job Number: L1566154-01, 02, 03 and 04								
Revi	ewei	r Name: Jeff Carr	Prep Batch Number(s): WG1972370, WG1973478, WG1973516 and WG1973543								
#1	A ²	Description		Yes	No	NA ³	NR⁴	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 describe	d in an exception report?			Х					
R2	OI	Sample and quality control (QC) identification									
		Are all field sample ID numbers cross-referenced to the	e laboratory ID numbers?	X							
		Are all laboratory ID numbers cross-referenced to the c	corresponding QC data?	X							
R3	OI	Test reports					•				
		Were all samples prepared and analyzed within holding	g times?	X							
		Other than those results < MQL, were all other raw value	les bracketed by calibration standards?		Х		1	1			
		Were calculations checked by a peer or supervisor?		X							
		Were all analyte identifications checked by a peer or su	inervisor?	X							
		Were sample detection limits reported for all analytes r	apervisor.								
		Were all results for soil and sodiment samples reported	lon a druwojabt basis?	$\hat{}$							
		were all results for soil and sediment samples reported		<u> </u>		V					
		were % moisture (or solids) reported for all soli and sec	liment samples?	I		X					
		Were bulk soils/solids samples for volatile analysis extr	acted with methanol per SW846 Method 5035?		ļ	X					
		If required for the project, are TICs reported?				X					
R4	0	Surrogate recovery data									
		Were surrogates added prior to extraction?				Х					
		Were surrogate percent recoveries in all samples within	n 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 analytica	l process, including preparation and, if applicable,								
		cleanup procedures?	. P ,	X							
DC				<u> </u>		I	<u> </u>	I			
R0	0	Laboratory control samples (LCS):			r –	1	1	1			
		Were all COCs included in the LCS?		X	<u> </u>						
		Was each LCS taken through the entire analytical proce	edure, including prep and cleanup steps?	X							
		Were LCSs analyzed at the required frequency?		X			<u> </u>				
		Were LCS (and LCSD, if applicable) %Rs within the labo	ratory QC limits?	X							
		Does the detectability check sample data document th used to calculate the SDLs?	e laboratory's capability to detect the COCs at the MDL	X							
		Was the LCSD RPD within QC limits?		X							
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data	3								
	1	Were the project/method specified analytes included ir	n the MS and MSD?	X	1						
		Were MS/MSD analyzed at the appropriate frequency?		X			1				
		Were MS (and MSD, if applicable) %Rs within the labora	atory QC limits?		X			2			
		Were MS/MSD RPDs within Jaboratory OC limits?		X							
R8	0	Analytical duplicate data				1	1				
RO	01	Were appropriate analytical duplicates analyzed for ea	ch matrix?		r	1	T	1			
		Were appropriate analytical adpiredies analyzed for early	froquonev2				-				
		Were BPDs or relative standard deviations within the la	heratony OC limits?		v		-	2			
DO		Method quantitation limits (MQLs):		I	^		I	3			
кэ	U	Method qualitation limits (MQLs).	lebeneten veleten erelen er		1	1	T	1			
		Are the MQLs for each method analyte included in the	laboratory data package?								
		Do the MigLs correspond to the concentration of the lo	west non-zero calibration standard?		 			┨────┤			
		Are unadjusted MQLs and DCSs included in the labora	tory data package?	X		1					
R10	0	Other problems/anomalies		1	1	1	1				
		Are all known problems/anomalies/special conditions r	noted in this LRC and ER?	X	<u> </u>						
		Was applicable and available technology used to lower the sample results?	r the SDL to minimize the matrix interference effects on	X							
		Is the laboratory NELAC-accredited under the Texas La	boratory Accreditation Program for the analytes, matrices	x							
1 Itom	Items identified by the letter "R" must be included in the laboratory data package submitted in the TPRP-required report(s). Items identified by the letter "S							"S"			
		nunea ov ne iener ik indsroe included in the idboldtol	y data package submitted in the TRRP-required report(S).	ILCHIS I	ພະມາເມມຄ	աստյ Մ	eretter	5			
should	d be re	etained and made available upon request for the approp	riate retention period.								
should 2. O = 3. NA	d be re = orga (= Not	etained and made available upon request for the approp nic analyses; I = inorganic analyses (and general chemis t applicable;	riate retention period. stry, when applicable);			-					

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

Labo	orato	ry Name: Pace Analytical National	LRC Date: 12/19/2022 07:11								
Proj	ect N	lame: Monticello GW - Mt. Pleasant, TX	Laboratory Job Number: L1566154-01, 02, 03 and 04								
Revi	ewe	r Name: Jeff Carr	Prep Batch Number(s): WG1972370, WG1973478, WG	197351	6 and	WG1973	3543				
# 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	s for each analyte within QC limits?	Т		Х	Ι				
		Were percent RSDs or correlation coefficient criteria m	et?	X			1				
		Was the number of standards recommended in the me	thod used for all analytes?	X							
		Were all points generated between the lowest and hig	hest standard used to calculate the curve?	X							
		Are ICAL data available for all instruments used?		X			1				
		Has the initial calibration curve been verified using an	appropriate second source standard?	X							
S2	0	Initial and continuing calibration verification (ICCV and	CCV) and continuing calibration blank (CCB):	1		•	•	•			
		Was the CCV analyzed at the method-required frequer	ncv?	X			1				
		Were percent differences for each analyte within the m	nethod-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?	1 X							
S3	0	Mass spectral tuning	5	-							
		Was the appropriate compound for the method used for	or tunina?	Тх		1	Γ				
		Were ion abundance data within the method-required	QC limits?								
S4	0	Internal standards (IS)		<u> </u>			1	1			
	-	Were IS area counts and retention times within the me	thod-required QC limits?	Тх		1	Τ				
S5	OI	Raw data (NELAC Section 5.5.10)		<u> </u>	1		1	1			
		Were the raw data (for example, chromatograms, spec	tral data) reviewed by an analyst?	Тх	1	Т	Г				
		Were data associated with manual integrations flagged	I on the raw data?	+		X					
S6	0	Dual column confirmation			1	1	1	1			
		Did dual column confirmation results meet the method	-required QC?	Т		X	Г				
S7	0	Tentatively identified compounds (TICs)		-							
	•	If TICs were requested, were the mass spectra and TIC	data subject to appropriate checks?	Т	1	X	1	1			
S8		Interference Check Sample (ICS) results		-		1	1	1			
		Were percent recoveries within method QC limits?		Тх		Т	Г	1			
S9	1	Serial dilutions, post digestion spikes, and method of s	tandard additions	<u> </u>	1		1	1			
		Were percent differences, recoveries, and the linearity	within the QC limits specified in the method?	Тх		Т	T				
S10	OI	Method detection limit (MDL) studies	· · · · · · · · · · · · · · · · · · ·	-							
		Was a MDL study performed for each reported analyte	?	Тх		Т	Г				
		Is the MDL either adjusted or supported by the analysis	s of DCSs?								
S11	OI	Proficiency test reports		<u> </u>	1			1			
		Was the laboratory's performance acceptable on the a	pplicable proficiency tests or evaluation studies?	Тх		Т	Г				
S12	OI	Standards documentation		<u> </u>			1	1			
		Are all standards used in the analyses NIST-traceable	or obtained from other appropriate sources?	Тх		1	Τ				
S13	OI	Compound/analyte identification procedures		<u> </u>	1		1	1			
0.0	0.	Are the procedures for compound/analyte identificatio	n documented?	Τx	1	1	T				
S14	OI	Demonstration of analyst competency (DOC)		<u> </u>	1			1			
		Was DOC conducted consistent with NELAC Chapter 5	?	Тх		Т	Г				
		Is documentation of the analyst's competency up-to-da	te and on file?								
S15	OI	Verification/validation documentation for methods (NFI	_AC Chapter 5)	<u> </u>		1	•				
		Are all the methods used to generate the data docume	ented, verified, and validated, where applicable?	X			1				
S16	OI	Laboratory standard operating procedures (SOPs)		<u> </u>							
0.0	<u> </u>	Are laboratory SOPs current and on file for each metho	pd performed	T ×			T				
1. Iten should	ns ide d be r	ntified by the letter "R" must be included in the laborato etained and made available upon request for the approp	ry data package submitted in the TRRP-required report(s). rriate retention period.	Items i	identifie	ed by th	e letter	"S"			
2. 0 = 3. NA	= orga \ = No	Inic analyses; I = inorganic analyses (and general chemi: t applicable;	stry, when applicable);								
4 NR	$= No^{1}$	t 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: Exception Reports

Laborato	ry Name: Pace Analytical National	LRC Date: 12/19/2022 07:11						
Project N	lame: Monticello GW - Mt. Pleasant, TX	Laboratory Job Number: L1566154-01, 02, 03 and 04						
Reviewe	r Name: Jeff Carr	Prep Batch Number(s): WG1972370, WG1973478, WG1973516 and WG1973543						
ER # ¹	Description							
1	9056A WG1973516 R3872323-6, 5 and 7: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).							
2	9056A WG1973478 Chloride: Percent Recoverses 9056A WG1973478 Fluoride, Sulfate: Perceverses 9056A WG1973478 Fluoride; 90578 Fluoride; 905	very is outside of established control limits. nt Recovery is outside of established control limits.						
3	9056A WG1973516 Fluoride: Relative Percent Difference is outside of established control limits. 2540 C-2011 WG1972370 Dissolved Solids: Relative Percent Difference is outside of established control limits.							
1. Items ide should be re 2. O = orga	 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. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable); 							

NA = Not applicable;
 NR = Not reviewed;
 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

	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch	 Ср
Analyte	mg/l		mg/l	mg/l		date / time		2
Dissolved Solids	1030		20.0	20.0	1	12/10/2022 11:52	WG1972370	Tc

Wet Chemistry by Method 9056A

, ,							5
Result	Qualifier SDL	Unadj.	MQL MQL	Diluti	on Analysis	Batch	
mg/l	mg/l	mg/l	mg/l		date / time		4
45.4	0.379	1.00	1.00	1	12/13/2022 22:57	WG1973478	
0.813	0.064	0 0.150	0.150	1	12/13/2022 22:57	WG1973478	5
636	5.94	5.00	50.0	10	12/13/2022 23:13	WG1973478	T
	Result mg/l 45.4 0.813 636	Result Qualifier SDL mg/l mg/l mg/l 45.4 0.379 0.813 0.064 636 5.94	Result Qualifier SDL Unadj. mg/l mg/l mg/l mg/l 45.4 0.379 1.00 0.813 0.0640 0.150 636 5.94 5.00	Result Qualifier SDL Unadj. MQL MQL mg/l mg/l mg/l mg/l mg/l mg/l 45.4 0.379 1.00 1.00 0.150 0.150 636 5.94 5.00 50.0 50.0	Result Qualifier SDL Unadj. MQL MQL Diluti mg/l mg/l mg/l mg/l mg/l 100 1 45.4 0.379 1.00 1.00 1 0.813 0.0640 0.150 0.150 1 636 5.94 5.00 50.0 10	Result Qualifier SDL Unadj. MQL MQL Dilution Analysis mg/l mg/l mg/l mg/l mg/l date / time 45.4 0.379 1.00 1.00 1 12/13/2022 22:57 0.813 0.0640 0.150 0.150 1 12/13/2022 22:57 636 5.94 5.00 50.0 10 12/13/2022 23:13	Result Qualifier SDL Unadj. MQL MQL Dilution Analysis Batch mg/l mg/l mg/l mg/l mg/l date / time date / time 45.4 0.379 1.00 1.00 1 12/13/2022 22:57 WG1973478 0.813 0.0640 0.150 0.150 1 12/13/2022 22:57 WG1973478 636 5.94 5.00 50.0 10 12/13/2022 23:13 WG1973478

Metals (ICPMS) by Method 6020

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Boron	4.60		0.482	0.0300	1.50	50	12/18/2022 18:22	WG1973543
Calcium	119		0.0936	1.00	1.00	1	12/17/2022 10:14	WG1973543

Gravimetric Analysis by Method 2540 C-2011

									l'Cn
	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch		Ср
Analyte	mg/l		mg/l	mg/l		date / time		l l l l l l l l l l l l l l l l l l l	2
Dissolved Solids	362		10.0	10.0	1	12/10/2022 11:52	WG1972370		Тс

Wet Chemistry by Method 9056A

Collected date/time: 12/03/22 11:00

<i>, , , , , , , , , ,</i>										5
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	L	
	mg/l		mg/l	mg/l	mg/l		date / time		4	
	49.3		0.379	1.00	1.00	1	12/14/2022 19:07	WG1973516		C
	0.0737	J	0.0640	0.150	0.150	1	12/14/2022 19:07	WG1973516	5	
	161		0.594	5.00	5.00	1	12/14/2022 19:07	WG1973516		Т
		Result mg/l 49.3 0.0737 161	Result Qualifier mg/l 49.3 0.0737 J 161 161	Result Qualifier SDL mg/l mg/l mg/l 49.3 0.379 0.0737 J 0.0640 161 0.594	Result mg/l Qualifier mg/l SDL mg/l Unadj. MQL mg/l 49.3 0.379 1.00 0.0737 J 0.0640 0.150 161 0.594 5.00	Result Qualifier SDL Unadj. MQL MQL mg/l mg/l mg/l mg/l mg/l mg/l 49.3 0.379 1.00 1.00 0.0737 J 0.0640 0.150 0.150 161 0.594 5.00 5.00 5.00 5.00	Result mg/l Qualifier mg/l SDL mg/l Unadj. MQL mg/l MQL mg/l Dilution 49.3 0.379 1.00 1.00 1 0.0737 J 0.0640 0.150 0.150 1 161 0.594 5.00 5.00 1	Result mg/l Qualifier mg/l SDL mg/l Unadj. MQL mg/l MQL mg/l Dilution mg/l Analysis date / time 49.3 0.379 1.00 1.00 1 12/14/2022 19:07 0.0737 J 0.0640 0.150 0.150 1 12/14/2022 19:07 161 0.594 5.00 5.00 1 12/14/2022 19:07	Result mg/l Qualifier mg/l SDL mg/l Unadj. MQL mg/l MQL mg/l Dilution mg/l Analysis date / time Batch 49.3 0.379 1.00 1.00 1 12/14/2022 19:07 WG1973516 0.0737 J 0.0640 0.150 0.150 1 12/14/2022 19:07 WG1973516 161 0.594 5.00 5.00 1 12/14/2022 19:07 WG1973516	Result Qualifier SDL Unadj. MQL MQL Dilution Analysis Batch mg/l mg/l mg/l mg/l mg/l date / time 4 4 49.3 0.379 1.00 1.00 1 12/14/2022 19:07 WG1973516 4 4 4 4 1 12/14/2022 19:07 WG1973516 1 12/14/2022 19:07 WG1973516 1 12/14/2022 19:07 WG1973516 1

Metals (ICPMS) by Method 6020

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Boron	1.15		0.0963	0.0300	0.300	10	12/18/2022 18:26	WG1973543
Calcium	36.5		0.0936	1.00	1.00	1	12/17/2022 10:17	WG1973543

²Tc ³Ss ⁴Cn ⁵Tr ⁶Sr ⁷Qc ⁸Gl ⁹Al ¹⁰Sc

Gravimetric Analysis by Method 2540 C-2011

								 1 Cn
	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch	Cp
Analyte	mg/l		mg/l	mg/l		date / time		2
Dissolved Solids	347		10.0	10.0	1	12/10/2022 11:52	WG1972370	Tc

Wet Chemistry by Method 9056A

Collected date/time: 12/03/22 10:00

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		Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— L	
Analyte		mg/l		mg/l	mg/l	mg/l		date / time		4	
Chloride		7.93		0.379	1.00	1.00	1	12/14/2022 19:45	WG1973516		C
Fluoride		1.72		0.320	0.150	0.750	5	12/14/2022 20:01	WG1973516	5	5
Sulfate		134		0.594	5.00	5.00	1	12/14/2022 19:45	WG1973516	-	T

Metals (ICPMS) by Method 6020

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Boron	1.43		0.0963	0.0300	0.300	10	12/18/2022 18:29	WG1973543
Calcium	78.9		0.0936	1.00	1.00	1	12/17/2022 10:20	WG1973543

Gravimetric Analysis by Method 2540 C-2011

-								Cn
	Result	Qualifier	Unadj. MQL	MQL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l	mg/l		date / time		2
Dissolved Solids	337		10.0	10.0	1	12/10/2022 11:52	WG1972370	Tc

Wet Chemistry by Method 9056A

Collected date/time: 12/03/22 09:00

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		Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	— L	
Analyte		mg/l		mg/l	mg/l	mg/l		date / time		4	4
Chloride		9.08		0.379	1.00	1.00	1	12/14/2022 20:23	WG1973516		C
Fluoride		3.46		0.320	0.150	0.750	5	12/14/2022 21:17	WG1973516	E	5
Sulfate		97.2		0.594	5.00	5.00	1	12/14/2022 20:23	WG1973516		Т

Metals (ICPMS) by Method 6020

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Boron	1.17		0.0963	0.0300	0.300	10	12/18/2022 18:32	WG1973543
Calcium	80.9		0.0936	1.00	1.00	1	12/17/2022 10:24	WG1973543



WG1972370

Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3870725-1 12/10/2	2 11:52			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1564756-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1564756-02 12/10/	/22 11:52 • (DUP)	R3870725-3	12/10/22 1	:52		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	2030	2140	1	5.24	<u>J3</u>	5

Laboratory Control Sample (LCS)

(LCS) R3870725-2 12	2/10/22 11:52				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	7780	88.4	77.3-123	

DATE/TIME: 12/19/22 07:11 PAGE: 13 of 22 Тс

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1566154-01

Method Blank (MB)

(1010) 100/1210-1 12/13/22 10.33	(MB)	R3871216-1	12/13/22	10:59
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(1112) 1100/1210 1 12/10/22	10.00				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	Тс
Chloride	U		0.379	1.00	
Fluoride	U		0.0640	0.150	³ Ss
Sulfate	U		0.594	5.00	

L1566101-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1566101-03	12/13/22 15:20 •	(DUP) R3871216-3	12/13/22 15:36
(00) =:000.0.00	12/10/22 10:20	(201)100712100	12/10/22 10:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	15400	16600	100	7.67		15
Fluoride	U	U	100	0.000		15
Sulfate	U	U	100	0.000		15

L1566117-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1566117-03 12/13/22	JS) L1566117-03 12/13/22 20:04 • (DUP) R3871216-6 12/13/22 20:26										
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits					
Analyte	mg/l	mg/l		%		%					
Chloride	18.8	18.8	1	0.0606		15					
Fluoride	U	U	1	0.000		15					
Sulfate	6.85	6.70	1	2.20		15					

Laboratory Control Sample (LCS)

LCS) R3871216-2 12/13/22 11:20										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/l	mg/l	%	%						
Chloride	40.0	40.3	101	80.0-120						
Fluoride	8.00	8.32	104	80.0-120						
Sulfate	40.0	40.7	102	80.0-120						

ACCOUNT:
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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1566101-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

SS) L1566101-03 12/13/22 15:20 • (MS) R3871216-4 12/13/22 15:58 • (MSD) R3871216-5 12/13/22 16:14												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	15400	15700	15600	645	521	100	80.0-120	V	$\underline{\vee}$	0.397	15
Fluoride	5.00	U	U	U	0.000	0.000	100	80.0-120	<u>J6</u>	<u>J6</u>	0.000	15
Sulfate	50.0	U	78.1	80.1	156	160	100	80.0-120	J5	J5	2.44	15

L1566117-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1566117-03 12/13/22	20:04 • (MS) R	3871216-7 12/1	3/22 20:42				
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	18.8	68.9	100	1	80.0-120	
Fluoride	5.00	U	5.34	107	1	80.0-120	
Sulfate	50.0	6.85	57.2	101	1	80.0-120	

DATE/TIME: 12/19/22 07:11

WG1973516

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1566154-02,03,04

Method Blank (MB)

(MB) R3872323-1	12/14/22 11:56

(1110) 1(30) 2323 1 12/14/2	2 11.00				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	Tc
Chloride	U		0.379	1.00	<u> </u>
Fluoride	U		0.0640	0.150	³ Ss
Sulfate	U		0.594	5.00	

L1566193-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1566193-02 12/15/22	00:16 • (DUP)	R3872323-5 1	2/15/22 0	1:10		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	5.56	5.37	1	3.44		15
Fluoride	0.0721	0.168	1	80.0	<u>P1</u>	15
Sulfate	204	204	1	0.0919	E	15

L1565929-01 Original Sample (OS) • Duplicate (DUP)

JS) L1565929-01 12/14/22 17:51 • (DUP) R3872323-3 12/14/22 18:07										
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits				
Analyte	mg/l	mg/l		%		%				
Chloride	79.6	79.5	1	0.0554		15				
Fluoride	2.07	2.15	1	4.08		15				
Sulfate	114	114	1	0.0663		15				

Laboratory Control Sample (LCS)

_CS) R3872323-2 12/14/22 12:12										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/l	mg/l	%	%						
Chloride	40.0	40.9	102	80.0-120						
Fluoride	8.00	8.48	106	80.0-120						
Sulfate	40.0	41.4	104	80.0-120						

ACCOUNT:
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DATE/TIME: 12/19/22 07:11 Ср

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1566193-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

OS) L1566193-02 12/15/22 00:16 • (MS) R3872323-6 12/15/22 01:32 • (MSD) R3872323-7 12/15/22 01:48												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	5.56	56.7	56.0	102	101	1	80.0-120			1.27	15
Fluoride	5.00	0.0721	5.47	5.40	108	107	1	80.0-120			1.30	15
Sulfate	50.0	204	245	245	82.3	81.3	1	80.0-120	E	E	0.200	15

L1565929-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1565929-01 12/14/22 17:51 • (MS) R3872323-4 12/14/22 18:29									
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier		
Analyte	mg/l	mg/l	mg/l	%		%			
Chloride	50.0	79.6	126	93.3	1	80.0-120			
Fluoride	5.00	2.07	7.19	102	1	80.0-120			
Sulfate	50.0	114	159	90.2	1	80.0-120			

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Metals (ICPMS) by Method 6020

QUALITY CONTROL SUMMARY L1566154-01,02,03,04

Method Blank (MB)

(MB) R3872976-1 12/17/22 09:54							
	MB Result	MB Qualifier	MB MDL	MB RDL		_	
Analyte	mg/l		mg/l	mg/l		Ċ	
Calcium	U		0.0936	1.00			
					³ S:	ŝS	

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Method Blank (MB)

(MB) R3873137-1 12/18	(MB) R3873137-1 12/18/22 18:02						
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/l		mg/l	mg/l			
Boron	U		0.00963	0.0300			

Laboratory Control Sample (LCS)

(LCS) R3872976-2 12/17/22 09:57								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/l	mg/l	%	%				
Calcium	5.00	5.18	104	80.0-120				

Laboratory Control Sample (LCS)

(LCS) R3873137-2 12/18/22 18:06						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/l	mg/l	%	%		
Boron	0.500	0.528	106	80.0-120		

L1565378-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

DS) L1565378-02 12/17/22 10:01 • (MS) R3872976-4 12/17/22 10:07 • (MSD) R3872976-5 12/17/22 10:11												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Calcium	5.00	41.2	45.6	45.5	86.6	86.4	1	75.0-125			0.0272	20

L1565378-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

OS) L1565378-02 12/18/22 18:09 • (MS) R3873137-4 12/18/22 18:16 • (MSD) R3873137-5 12/18/22 18:19												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	0.500	1.78	2.35	2.28	114	98.9	10	75.0-125			3.25	20

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
GEMINI Engineering		L1566154	12/19/22 07:11	18 of 22

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.
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.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Τс

Ss

Cn

Tr

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Qc

GI

AI

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee ¹⁴	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.

SDG: L1566154 ¹ Cp ² Tc ³ Ss ⁴ Cn ⁵ Tr ⁶ Sr ⁷ Qc ⁸ GI ⁹ Al ¹⁰ Sc

Company Name/Address: GEMINI Engineering 2275 Cassens Drive Suite 118	ess: gineering Prive Suite 118 Feator MO 62026		Pres Chk				Analysi	s / Contain	er / Preservative		Chain of C	Page of			
Fenton. MO 63026	÷		Fenton,	MO 63026		-									
Report to: Adam Kaiser	am Kaiser			1								N	IT JULIET, TN		
Project Description: Monticello GW - Mt Pleasant TX		City/State	MI OF	Parant TV	Please Cire			res						12065 Lebanor Submitting a si constitutes act Pace Terms an	h Rd Mount Juliet, TN 37122 ample via this chain of custody mowledgment and acceptance of the d Conditions found at:
Phone: 512-566-6878	Client Proje	ect #	Lab Project #		UT ET	103	E-Nof						https://info.pa terms.pdf	celabs.com/hubfs/pas-standard-	
				GEIVIFIVIO-IV	ONTICELLO	. (Ŧ	Ido						SDG # [1 June 1
Jeff Norfhet	Site/Facility GOLDEN	ID # EAGLE		P.O. #			HDPE	Smlt	S					L	026
Collected by (signature):	Rush?	(Lab MUST B	e Notified)	ed) Quote #			S0ml	04 12	NoPr					Acctnum: Template	GEMFMO T209229
mmediately lacked on Ice N Y	Next Two Three	Day 5 D Day 10 I 2 Day	ay (Rad Only) Day (Rad Only)	Date Result	s Needed	No.	6020 2	e, F, Si	HDPE					Prelogin: PM: 206 -	P958531 Jeff Carr
Sample ID	Comp/Gra	b Matrix *	Depth	Date	Time	Cntrs	, Ca -	hlorid	DS 11					Shipped V Remark	ia: FedEX Ground
W-30	Grab	GW	20.80	12-3-22	1200	3	X	x	X						1
W-31	Grab	GW	16.00	12-3-22	1100	3	X	x	X						-61
W-32	Grab	GW	110.50	12-3-22	1000	3	x	x	X						22
W-33	Grab	GW	27.20	12-2-22	0900	3	x	x	x						20)
<u>V</u>	10.00	GW	- and	12 300		3	X								-04
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		GW				1-3	^ ~	$\hat{}$							-07
·						3	<u> </u>		X	 					-08
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Matrix: - Soil AIR - Air F - Filter W - Groundwater B - Bioassay W - WasteWater	Remarks:								L	pH Flow	· · · · · · · · · · · · · · · · · · ·	Temp Other	COC Seal COC Sign Bottles	ample Receipt Present/Int. ed/Accurate: arrive intac	Checklist act: _NP _Y _N t:N
₩ - Drinking Water ſ - Other	Samples returne UPS FedE	d via: «Courier		Trackin	s# 6095	1.	541	3 81	789				Sufficie	nt volume ser If Appli	t: <u>cable</u>
elinquished by : (Signature)		ate: 2-8-2	2 Ne	30 Receive	ed by: (Signatu	ire)			1	Trip Blar	nk Received	HCL / MeoH	Preserva RAD Scre	tion Correct en <0.5 mR/h	Checked: Y N c: N
elinquisided by : (Signature)	D	ate:	Time:	Receive	ed by: (Signatu	ire)			3	Temp) 10+0	+2 °C	Bottles Received:	If preserve	ation required by	/Login: Date/Time
elinquished by : (Signature)	þ	ate:	Time:	Receive	d for lab by: (Sienato	re)		- 1	Date:		Time: SECU	Hold:		Condition: NCF / OK

and the





Pace Analytical® ANALYTICAL REPORT June 29, 2022

GEMINI Engineering

Sample Delivery Group: Samples Received: Project Number:

Description:

Site:

Report To:

L1499927	
06/01/2022	

Monticello GW - Mt. Pleasant, TX **GOLDEN EAGLE** Adam Kaiser 2275 Cassens Drive Suite 118 Fenton, MO 63026

Тс Ss Cn Sr ʹQc Gl AI Sc

Entire Report Reviewed By:

Juss law

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

ACCOUNT: **GEMINI Engineering** PROJECT:

SDG: L1499927

DATE/TIME: 06/29/22 14:23

PAGE: 1 of 20

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¹Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

SAMPLE SUMMARY

				Collected date/time	Received date/time	
W-30 L1499927-01 GW			Jeff Norfleet	05/30/22 15:00	06/01/22 11:4	10
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1874311	1	06/04/22 10:41	06/04/22 15:09	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1884238	1	06/24/22 02:45	06/24/22 02:45	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1884238	10	06/24/22 03:30	06/24/22 03:30	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1876806	1	06/13/22 12:23	06/13/22 18:33	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1876806	10	06/13/22 12:23	06/16/22 09:43	SJM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
W-31 L1499927-02 GW			Jeff Norfleet	05/30/22 14:00	06/01/22 11:4	10
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1874311	1	06/04/22 10:41	06/04/22 15:09	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1884238	1	06/24/22 03:45	06/24/22 03:45	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1884238	5	06/24/22 04:00	06/24/22 04:00	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1876806	1	06/13/22 12:23	06/13/22 18:36	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1876806	5	06/13/22 12:23	06/16/22 09:47	SJM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
W-32 L1499927-03 GW			Jeff Norfleet	05/30/22 13:00	06/01/22 11:4	10
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
0 · · · · A · · · · A · · · · · A ·	11/04074044	4			10.45	
Gravimetric Analysis by Method 2540 C-2011	WG1874311	1	06/04/22 10:41	06/04/22 15:09	MMF	Mt. Juliet, IN
Wet Chemistry by Method 9056A	WG1884238	1	06/24/22 04:45	06/24/22 04:45	ELN	Mt. Juliet, IN
Metals (ICPMS) by Method 6020	WG1876806	1	06/13/22 12:23	06/13/22 18:39	LD	Mt. Juliet, IN
Metais (ICPMS) by Method 6020	WG1876806	5	06/13/22 12:23	06/16/22 09:50	SJM	Mt. Juliet, IN
			Collected by	Collected date/time	Received da	te/time
W-33 L1499927-04 GW			Jeff Norfleet	05/30/22 12:00	06/01/22 11:4	10
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1874311	1	06/04/22 10:41	06/04/22 15:09	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1884238	1	06/24/22 04:59	06/24/22 04:59	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1876806	1	06/13/22 12:23	06/13/22 18:43	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1876806	5	06/13/22 12:23	06/16/22 09:53	SJM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
W-34 L1499927-05 GW			Jeff Norfleet	05/30/22 11:00	06/01/22 11:4	10
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Gravimatric Analysis by Mathod 2540 C 2011	\MC107/101	1				Mt Juliot TN
Wat Chamistry by Mathod 2056A	WC100/4311	1	00/04/22 10.41	00/04/22 13.03		Mt Juliot TN
Wet Chemistry by Method 9056A	WG1884238	100	06/24/22 10:21	06/24/22 10:21		Mt Juliat TN
	WG1884238	100	00/24/22 10:51	00/24/22 10:51	ELN	IVIL JUIIET, IN
Wel Chemistry by Method 9056A	WG1884238	5	06/24/22 10:36	06/24/22 10:36	ELN	Mt. Juliet, IN
	WG1876806	10	00/13/22 12:23	00/13/22 18:40	LU	IVIL JUIIET, IN
inerais (ICENIS) by Method 6020	WG1876806	IU	UD/13/22 12:23	00/10/22 09:56	5JNI	wit. Juliet, TN

SDG: L1499927 DATE/TIME: 06/29/22 14:23

²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al

Sc

Ср

SAMPLE SUMMARY

			Collected by	Collected date/time	Received date/time	
W-35 L1499927-06 GW			Jeff Norfleet	05/30/22 10:00	06/01/22 11:4	10
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1874008	1	06/03/22 13:30	06/03/22 18:09	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1884238	1	06/24/22 11:06	06/24/22 11:06	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1884238	5	06/24/22 11:21	06/24/22 11:21	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1885244	100	06/25/22 11:30	06/25/22 11:30	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1876806	1	06/13/22 12:23	06/13/22 18:50	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1876806	10	06/13/22 12:23	06/16/22 10:00	SJM	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.

Juss land

Jeff Carr Project Manager



SAMPLE RESULTS - 01 L1499927

Gravimetric Analysis by Method 2540 C-2011

,	-						Cn.
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l		date / time		 2
Dissolved Solids	1090		13.3	1	06/04/2022 15:09	WG1874311	⁻Tc

Wet Chemistry by Method 9056A

Wet Chemistry by Method 9056A									
	Result	Qualifier	RDL	Dilution	Analysis	Batch			
Analyte	mg/l		mg/l		date / time		⁴ Cn		
Chloride	43.8		1.00	1	06/24/2022 02:45	WG1884238			
Fluoride	0.695		0.150	1	06/24/2022 02:45	WG1884238	5		
Sulfate	682	$\underline{\vee}$	50.0	10	06/24/2022 03:30	WG1884238	Sr		

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Boron	4.04		0.300	10	06/16/2022 09:43	WG1876806
Calcium	112		1.00	1	06/13/2022 18:33	WG1876806

Qc

Gl

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SAMPLE RESULTS - 02 L1499927

Gravimetric Analysis by Method 2540 C-2011

	-						Cn
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l		date / time		2
Dissolved Solids	477		10.0	1	06/04/2022 15:09	WG1874311	⁻Tc

Wet Chemistry by Method 9056A

Collected date/time: 05/30/22 14:00

Wet Chemistry by Method 9056A									
	Result	Qualifier	RDL	Dilution	Analysis	Batch			
Analyte	mg/l		mg/l		date / time			4 Cn	
Chloride	57.0		1.00	1	06/24/2022 03:45	WG1884238		CII	
Fluoride	0.167		0.150	1	06/24/2022 03:45	WG1884238		5	
Sulfate	409		25.0	5	06/24/2022 04:00	WG1884238		Sr	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Boron	2.06		0.150	5	06/16/2022 09:47	WG1876806
Calcium	57.5		1.00	1	06/13/2022 18:36	WG1876806

Qc

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SAMPLE RESULTS - 03 L1499927

Gravimetric Analysis by Method 2540 C-2011

,	,						Cn
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l		date / time		 2
Dissolved Solids	266		10.0	1	06/04/2022 15:09	WG1874311	⁻Tc

Wet Chemistry by Method 9056A

Wet Chemistry by Method 9056A										
Result <u>Qualifier</u> RDL Dilution Analysis <u>Batch</u>										
Analyte	mg/l		mg/l		date / time			⁴ Cn		
Chloride	8.68		1.00	1	06/24/2022 04:45	WG1884238				
Fluoride	1.40		0.150	1	06/24/2022 04:45	WG1884238		5		
Sulfate	51.2		5.00	1	06/24/2022 04:45	WG1884238		Sr		

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Boron	1.97		0.150	5	06/16/2022 09:50	WG1876806
Calcium	53.9		1.00	1	06/13/2022 18:39	WG1876806

Qc

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SAMPLE RESULTS - 04 L1499927

Gravimetric Analysis by Method 2540 C-2011

,	,						1 Cn
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l		date / time		2
Dissolved Solids	368		10.0	1	06/04/2022 15:09	WG1874311	⁻Tc

Wet Chemistry by Method 9056A

Collected date/time: 05/30/22 12:00

Wet Chemistry by Method 9056A										
Result Qualifier RDL Dilution Analysis Batch										
Analyte	mg/l		mg/l		date / time			⁴ Cn		
Chloride	10.4		1.00	1	06/24/2022 04:59	WG1884238				
Fluoride	2.93		0.150	1	06/24/2022 04:59	WG1884238		5		
Sulfate	82.9		5.00	1	06/24/2022 04:59	WG1884238		Sr		

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Boron	1.10		0.150	5	06/16/2022 09:53	WG1876806
Calcium	77.5		1.00	1	06/13/2022 18:43	WG1876806

Qc

Gl

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SAMPLE RESULTS - 05 L1499927

Gravimetric Analysis by Method 2540 C-2011

	-						Cn.
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Cp
Analyte	mg/l		mg/l		date / time		2
Dissolved Solids	1800		20.0	1	06/04/2022 15:09	WG1874311	⁻Tc

Wet Chemistry by Method 9056A

Collected date/time: 05/30/22 11:00

Wet Chemistry by Method 9056A										
Result <u>Qualifier</u> RDL Dilution Analysis <u>Batch</u>										
Analyte	mg/l		mg/l		date / time			⁴ Cn		
Chloride	108		5.00	5	06/24/2022 10:36	WG1884238				
Fluoride	0.291		0.150	1	06/24/2022 10:21	WG1884238		5		
Sulfate	918		500	100	06/24/2022 10:51	WG1884238		Sr		

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Boron	5.61		0.300	10	06/16/2022 09:56	WG1876806
Calcium	220		1.00	1	06/13/2022 18:46	WG1876806

Qc

Gl

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SAMPLE RESULTS - 06 L1499927

Gravimetric Analysis by Method 2540 C-2011

	,						l'Cn
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l		date / time		2
Dissolved Solids	1670		20.0	1	06/03/2022 18:09	WG1874008	⁻Tc

Wet Chemistry by Method 9056A

Wet Chemistry by Method 9056A										
Result <u>Qualifier</u> RDL Dilution Analysis <u>Batch</u>										
Analyte	mg/l		mg/l		date / time		4 Cr			
Chloride	115		5.00	5	06/24/2022 11:21	WG1884238				
Fluoride	ND		0.150	1	06/24/2022 11:06	WG1884238	5			
Sulfate	946		500	100	06/25/2022 11:30	WG1885244	Sr			

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Boron	5.26		0.300	10	06/16/2022 10:00	WG1876806
Calcium	232		1.00	1	06/13/2022 18:50	WG1876806

Qc

Gl

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1499927-06

Method Blank (MB)

(MB) R3800050-1 06/03/2	22 18:09			
、	MB Result	MB Qualifier	MB MDL	MB RDL
Ameluta	ma/l		ma/l	
Analyte	mg/I		mg/i	mg/I
Dissolved Solids	U		10.0	10.0

L1499409-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1499409-13 06/03/22 18:09 • (DUP) R3800050-3 06/03/22 18:09											
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits					
Analyte	mg/l	mg/l		%		%					
Dissolved Solids	1750	1700	1	2.78		5					

L1499468-01 Original Sample (OS) • Duplicate (DUP)

L1499468-01 Origin	nal Sample	(OS) • Dup	licate (l	DUP)			GI
(OS) L1499468-01 06/03/2	22 18:09 • (DUP) R3800050-4	06/03/2	2 18:09			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	1560	1590	1	1.90		5	⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3800050-2 06/03/22 18:09									
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	mg/l	mg/l	%	%					
Dissolved Solids	2460	2460	100	81.7-118					

DATE/TIME: 06/29/22 14:23 Тс

Ss

Cn

Sr

Qc

Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1499927-01,02,03,04,05

Method Blank (MB)

Method Blank	(MB)				
(MB) R3800470-1 06	6/04/22 15:09				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	Tc.
Dissolved Solids	U		10.0	10.0	
					³ Ss

L1498270-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1498270-03	06/04/22 15:09 •	(DUP) R3800470-3	06/04/22 15:09	

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	5900	5940	1	0.676		5

Sample Narrative:

OS: OOH results did not match in hold analysis.

L1499060-05 Original Sample (OS) • Duplicate (DUP)

OS) L1499060-05 06	6/04/22 15:09 • (DU	P) R3800470	-4 06/04/2	22 15:09		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	8480	8420	1	0.710		5

Laboratory Control Sample (LCS)

(LCS) R3800470-2 06/04/22 15:09								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/l	mg/l	%	%				
Dissolved Solids	2460	2550	104	81.7-118				

DATE/TIME: 06/29/22 14:23 Cn

Sr

Qc

GI

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1499927-01,02,03,04,05,06

Method Blank (MB)

(MB) I	R3807305-1	06/23/22	22:46

(IVID) R3607303-1 00/23/2	22 22.40				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	Tc
Chloride	U		0.379	1.00	
Fluoride	U		0.0640	0.150	³ SS
Sulfate	U		0.594	5.00	00

L1499306-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1499306-01 06/23/2	22 23:16 • (DUP	9) R3807305-3	06/23/22	2 23:31					
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits			
Analyte	mg/l	mg/l		%		%			
Chloride	75.0	75.4	1	0.498		15			
Fluoride	0.441	0.459	1	4.07		15			
Sulfate	24.3	24.4	1	0.411		15			

L1499927-04 Original Sample (OS) • Duplicate (DUP)

SS) L1499927-04 06/24/22 04:59 • (DUP) R3807305-6 06/24/22 09:52										
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits				
Analyte	mg/l	mg/l		%		%				
Chloride	10.4	10.3	1	1.02		15				
Fluoride	2.93	2.95	1	0.551		15				
Sulfate	82.9	83.5	1	0.727		15				

Laboratory Control Sample (LCS)

LCS) R3807305-2 06/23/22 23:01										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/l	mg/l	%	%						
Chloride	40.0	40.9	102	80.0-120						
Fluoride	8.00	8.49	106	80.0-120						
Sulfate	40.0	41.0	102	80.0-120						

ACCOUNT:
GEMINI Engineering

DATE/TIME: 06/29/22 14:23 Ср

⁺Cn

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1499927-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499927-01 06/24/22 02:45 • (MS) R3807305-4 06/24/22 03:00 • (MSD) R3807305-5 06/24/22 03:15												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	43.8	94.0	94.4	100	101	1	80.0-120			0.360	15
Fluoride	5.00	0.695	5.40	5.38	94.0	93.7	1	80.0-120			0.267	15

L1500139-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1500139-04 06/24/22 12:51 • (MS) R3807305-8 06/24/22 12:36											
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier				
Analyte	mg/l	mg/l	mg/l	%		%					
Chloride	50.0	15.4	67.8	105	1	80.0-120					
Fluoride	5.00	ND	5.22	104	1	80.0-120					
Sulfate	50.0	10.7	64.1	107	1	80.0-120					

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

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1499927-06

Method Blank (MB)

(MB) R3808899-1 06/25/22 10:17								
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	mg/l		mg/l	mg/l				
Sulfate	U		0.594	5.00				

L1500574-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1500574-05 06/25/22 13:13 • (DUP) R3808899-3 06/25/22 13:58									
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	r RPD ts			
Analyte	mg/l	mg/l		%					
Sulfate	51.3	51.3	1	0.0347					

L1500663-01 Original Sample (OS) • Duplicate (DUP)

L1500663-01 Origir	hal Sample	(OS) • Dup	olicate (DUP)			⁷ Gl
(OS) L1500663-01 06/25/	22 19:11 • (DUP)	R3808899-6	06/25/22	2 19:56			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	mg/l	mg/l		%		%	
Sulfate	6.90	6.89	1	0.0261		15	°Sc

Laboratory Control Sample (LCS)

(LCS) R3808899-2 06/25/22 10:32										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/l	mg/l	%	%						
Sulfate	40.0	40.4	101	80.0-120						

L1500574-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1500574-05 06/25/22 13:13 • (MS) R3808899-4 06/25/22 14:13 • (MSD) R3808899-5 06/25/22 14:28												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Sulfate	50.0	51.3	101	100	99.0	97.8	1	80.0-120	E	E	0.605	15

L1500663-01 Original Sample (OS) • Matrix Spike (MS)

DS) L1500663-01 06/25/22 19:11 • (MS) R3808899-7 06/25/22 20:11										
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier			
Analyte	mg/l	mg/l	mg/l	%		%				
Sulfate	50.0	6.90	58.7	104	1	80.0-120				

ACCOUNT:	
GEMINI Engineering	

PROJECT:

SDG: L1499927

DATE/TIME: 06/29/22 14:23

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Ss

Cn

Sr

Metals (ICPMS) by Method 6020

QUALITY CONTROL SUMMARY L1499927-01,02,03,04,05,06

					IChI
(MB) R3802682-1 06/13	3/22 17:07				Ср
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	Tc
Calcium	U		0.0936	1.00	
					³ Ss

Cn

Sr

°Sc

Method Blank (MB)

(MB) R3803566-1 06/	14/22 22:43			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Boron	U		0.00963	0.0300

Laboratory Control Sample (LCS)

	Sample (L	_5)				7
(LCS) R3802682-2 06/13/	22 17:10					GI
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/l	mg/l	%	%		⁸ Al
Calcium	5.00	5.21	104	80.0-120		

Laboratory Control Sample (LCS)

(LCS) R3803566-2 06/14/	/22 22:47				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Boron	0.500	0.522	104	80.0-120	

L1499759-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499759-01 06/13/22	2 17:13 • (MS) R3	3802682-4 06	/13/22 17:20 • ((MSD) R380268	32-5 06/13/22	17:23						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Calcium	5.00	270	271	272	18.8	42.2	1	75.0-125	V	V	0.431	20

L1499759-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499759-01 06/14/22	2 22:50 • (MS)	R3803566-4 C	06/14/22 22:57	• (MSD) R3803	3566-5 06/14/2	22 23:00						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	0.500	0.649	1.17	1.18	104	106	1	75.0-125			0.679	20

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

V

The sample concentration is too high to evaluate accurate spike recoveries.

Τс

Ss

Cn

Sr

Qc

GI

AI

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

¹Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

2275 Cassens Drive Suite 118 Fenton. MO 63026 Report to: Adam Kaiser Project Description: Monticello GW - Mt. Pleasant, TX C Phone: 512-566-6878 Client Project # Collected by (print): JEFF Norffeet Adam Walk Sample ID Comp/Grab W - 32 W - 32 W - 32 W - 34 W - 35	City/State Collected: # GLE b MUST Be 5 Day 10 Da Matrix * GW GW GW GW	Maggin 2275 C Suite 1 Fenton Email To: MH : Ph : MH : Ph : Day ay (Rad Only) Day (Rad Only) Depth AQ. 60 16,00 16,00	e Peetz Cassens L18 D, MO 6 : a.kaiser CaSan Lab Pi GEM P.O. # Quote Da	2 5 Drive 53026 r@gemir Project # 0 - 7 7 Project # 0 - 7 7 Project # 0 - 2 2	Nisti.com Please PT MT MONTICEL Its Needed Time 1500	E Circle: CT E LO	× 8, Са - 6020 250mlHDPE-HNO3	× Chloride, F, SO4 125mlHDPE-NoPres	TDS 1L-HDPE NoPres	Analysis / Co	Intainer / Proce		Chain of J2065 Leb Submittue Pace Term https://int terms.pdf SDG # Tabli Acctnut Templa Prelogin PM: 200 PB Shipped Rem	of Custody Page_of Pace PEDPLE ADVANCINE SCIENCE MT JULIET, TN Nation Rd: Mount suiler, TN 37122 g sample via this chain of runtody acknowledgement and acceptance of ward conditions found et to accelular.com/hibitu/pass-standard: MUMMING K106 m: GEMIFMO ate: T209229 m: P924150 6 - Jeff Carr Via: FedEX Ground Avia: FedEX Ground Sample # (lab on
Report to: Adam Kaiser Project Description: Monticello GW - Mt. Pleasant, TX Phone: 512-566-6878 Collected by (print): Jeff Norffeet GolDEN EAG Collected by (signature): Mummediately Sample ID Comp/Grab W - 30 Grab W - 32 W - 34 W - 35	City/State Collected: # GLE b MUST Be Five 	Email To: MH Ph MH Ph Pay (Rad Only) Pay (Rad Only) Depth 20.60 16,00 16,00 16,00	Casan Lab Pi GEM P.O. # Quote Da	r@gemir Project # Project Project Proj	Nisti.com Please PT MT MONTICEL Its Needed Time	e Circle: CT E LO No. Of Cntrs 3	× 8, Ca - 6020 250mlHDPE-HNO3	Chloride, F, SO4 125mlHDPE-NoPres	TDS 1L-HDPE NoPres				12065 Leb Submitting constitution Pace Term https://int terms.pdf SDG # Tabli Acctnut Templa Prelogin PM: 200 PB Shipped Rem	PEDPLE ADVANCINE SCIENCE MT JULIET, TN Nation Rd: Mount suller, TN 37322 g a sample via this chain of runtofy a sample via this chain of runtofy the activative grant and acceptance of the activative grant and acceptance the ac
Project Description: Image: Constraint of the second	City/State Collected: # GLE b MUST Be 	e Notified) Day ay (Rad Only) Depth 20, 60 16, 00 16, 00	Casan Lab Pi GEM P.O. # Quote Da	ate Resu	K Please PT MT MONTICEL	e Circle: CT E LO No. of Cntrs 3	× 8, Ca - 6020 250mlHDPE-HNO3	Chloride, F, SO4 125mlHDPE-NoPres	TDS 1L-HDPE NoPres				12065 Leb Submitty Pace Term https://or terms.pdf SDG # Table Acctnut Templa Prelogin PM: 200 PB Shipped Rem	MT JULIET, TN sarden fid. Mount suiler, TN 37322 g a sample via this chain of ruitoby the advoluting mentant and acceptance of the advoluting mentant and acceptance the
Phone: 512-566-6878 Client Project # Collected by (print): Site/Facility ID # $J \in ff$ Norffeet GOLDEN EAG Collected by (signature): Rush? (Lab $MMMM$ Same Day $MMMM$ Next Day $Macked on loc N$ Y M Sample ID Comp/Grab $W - 32$ W $W - 34$ W $W - 35$ W	Collected: # GLE b MUST Be 	e Notified) Day ay (Rad Only) Depth 20, 60 16, 00 16, 00	Casan Lab Pi GEM P.O. # Quote Da	roject # AFMO-I e # ate Resu Date	Its Needed	No. of Cntrs	× 8, Ca - 6020 250mlHDPE-HNO3	× Chloride, F, SO4 125mlHDPE-NoPre	TDS 1L-HDPE NoPres				Submittyle Pace Term http://www.spart SDG # Table Acctnut Templa Prelogin PM: 200 PB Shipped Rem	a sample via this chain of truttopy is and changed with the change of the company is not constitute from the company is not constitute from the company is and constitute from the company is a constitute of the constit
Jeff Narfleet Site/Facility ID # Collected by (signature): Rush? (Lab $Mmediately$ Next Day Packed on Ice N Y Sample ID Comp/Grab $W - 30$ Grab $W - 32$ W $W - 35$ W	# GLE b MUST Be 5 Day 10 Da Matrix * GW GW GW GW	e Notified) Day ay (Rad Only) Depth 20.60 16,00 16,00	P.O. # Quote Da	e # ate Resu Date	Its Needed	No. of Cntrs 3	× 8, Ca - 6020 250mlHDPE-	 Chloride, F, SO4 125mlHD 	TDS 1L-HDPE NoPres				Tabli Acctnut Tempia Prelogir PM: 200 PB Shipped Rem	K106 m: GEMFMO ite:T209229 n: P924150 6 - Jeff Carr Via: FedEX Ground aarks Sample # (lab of
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