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REVIEWED

By Mike Buchanan at 9:55 am, Jul 15, 2024

Your ref: Incident Number nAPP2217177320
Our ref: 12603939-NM-1

June 17, 2024

State of New Mexico
Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

Review of the 2023 Annual Groundwater Monitoring Report for Jal No. 4 Former Tank Battery: Content Satisfactory

1. Continue to conduct semi-annual groundwater monitoring events (BTEX, TDS, Chloride) in May and November as planned in report.
2. Continue to conduct quarterly LNAPL abatement events by hand-bailing at MW-1.
3. Use absorbent sock in the meantime as a way of passively removing LNAPL in-between quarterly events.
4. Submit the next annual groundwater report to OCD by June 17, 2025.

2023 Annual Groundwater Monitoring Report
Jal No. 4 Former Tank Battery
ET Gathering & Processing LLC
Lea County, New Mexico
New Mexico Oil Conservation Division Remediation Case No. 1RP-1457
Incident Number nAPP2217177320

To whom it may concern:

On behalf of ET Gathering & Processing LLC (ET G&P), GHD Services Inc. (GHD) is submitting the 2023 Annual Groundwater Monitoring Report (Report) for the above-referenced property (Site) to the New Mexico Oil Conservation Division (NMOCD). The Report summarizes activities performed at the Site during 2023.

Should you have any questions or comments regarding this submittal, please contact the undersigned.

Regards,



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BO/mss/1

Encl. 2023 Annual Groundwater Monitoring Report

Copy to: Stacy Boultinghouse, Energy Transfer
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2023 Annual Groundwater Monitoring Report

**Jal No. 4 Former Tank Battery
Lea County, New Mexico
NMOCD 1RP-1457
Incident Number nAPP2217177320**

ET Gathering & Processing LLC

June 17, 2024

→ The Power of Commitment

Contents

1.	Introduction	1
1.1	Site Background	1
2.	Groundwater Monitoring	2
2.1	Monitoring Well Gauging	2
2.2	LNAPL Presence and Recovery	2
2.3	Groundwater Sampling	2
2.4	Quality Assurance/Quality Control	3
2.5	Analytical Results	3
3.	Summary and Recommendations	3
3.1	Summary	3
3.2	Recommendations	3
4.	Scope and Limitations	4

Table index

Table 1	Summary of LNAPL Recovery
Table 2	Summary of Groundwater Elevation Data
Table 3	Summary of Groundwater Quality Field Parameters
Table 4	Summary of Groundwater Analytical Results

Figure index

Figure 1	Site Location Map
Figure 2	Site Details Map
Figure 3	Potentiometric Surface Map (May 2023)
Figure 4	Potentiometric Surface Map (November 2023)
Figure 5	COC Concentrations in Groundwater and LNAPL Thickness Map (2023)

Appendices

Appendix A	Laboratory Analytical Reports
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1. Introduction

This report presents the results of groundwater monitoring activities performed during 2023 by GHD Services Inc. (GHD) at the ET Gathering & Processing LLC (ET G&P), formerly ETC Texas Pipeline, Ltd., Jal No. 4 former tank battery (Site). The Site is located on Deep Wells Road about ½ mile west of Highway 18 and approximately 10 miles north of Jal, Lea County, New Mexico in Section 31, Township 23 South, Range 37 East. The location of the Site is shown on **Figure 1**. The property is owned by Mr. Kelly Myers. The Site is regulated by the New Mexico Oil Conservation Division (NMOCD) under remediation permit 1RP-1457 and is associated with incident number nAPP2217177320a.

1.1 Site Background

The Site is currently vacant land but was formerly developed with a tank battery that included aboveground storage tanks (ASTs) that stored natural gas condensate (condensate) and produced water. In April 2007, a release from a 410-barrel (bbl) AST tank was discovered by the previous operator of the Site, Southern Union Gas Services, Ltd. Approximately 140 bbls of condensate and 140 bbls of produced water were estimated to have been released in an approximately 2,772 square foot area. Based on the released products, the primary constituents of concern (COCs) at the Site include benzene, toluene, ethylbenzene, and xylenes (BTEX) and chloride.

Approximately 7,500 cubic yards of soil were excavated from the release area during November 2012 and January 2013. A liner was placed in the bottom of the excavation, at approximately 15 feet below ground surface (ft bgs), to minimize further vertical migration of the constituents left in place.

A total of six monitoring wells (MW-1 through MW-6) and one recovery well (RW-1) have been installed at the Site (**Figure 2**). Recovery well RW-1 was installed to recover light non-aqueous phase liquid (LNAPL), but only a sheen has ever been observed during monitoring events. However, monitoring well MW-1 has consistently had measurable LNAPL since its installation. Groundwater monitoring has been performed at the Site since February 2013 and in 2016 the monitoring switched to a semi-annual schedule.

In March 2015, a baildown test was conducted at the Site to estimate LNAPL transmissivity in conjunction with a PIANO (n-paraffin, iso-paraffin, aromatics, naphthalenes, and olefins) analysis on LNAPL collected from MW-1. The bail-down test returned estimated LNAPL transmissivity for the Site of 0.34 feet per day for MW-1. This transmissivity value falls in the de minimis recoverability range for LNAPL recommended by the Interstate Technology and Regulatory Council (ITRC). The LNAPL plume at the Site appears to be stable and further migration of LNAPL is unlikely. Results of the PIANO analysis show that carbon range indicators for the sample ranged from C4 to C26. The primary indicators ranged from C6 to C10. LNAPL falling within this range is typically gasoline or light condensate. Details of both the baildown test and PIANO analysis are discussed in detail in the 2015 Annual Groundwater Monitoring Report for the Site.

In November 2015, a solar controlled, compressed air powered, QED in-well skimmer pump was installed to recover LNAPL from monitoring well MW-1. This skimmer operated at the Site in monitoring well MW-1 until November 2018 and recovered approximately 304 gallons of LNAPL during its operation. The skimmer was removed due to low recovery and frequent maintenance due to Site conditions.

Mobile dual phase extraction (MDPE) events were performed at the Site in 2018, 2019, and 2020, recovering a total of 332 gallons of LNAPL. Details of the MDPE events are discussed in previous groundwater monitoring reports prepared for the Site.

Currently, absorbent socks are present in MW-1 and are being replaced on a quarterly basis. GHD assumes 10 ounces of LNAPL is recovered per absorbent sock. During the absorbent sock replacement, residual LNAPL is also recovered via a disposable polyethylene bailer and placed into a drum on-Site. Approximately 0.25 gallons of LNAPL are recovered during each bailing event. A summary of LNAPL recovery at the Site is presented in **Table 1**.

Semi-annual groundwater monitoring and quarterly LNAPL recovery events were performed in 2023, the details and results of which are discussed in this report.

2. Groundwater Monitoring

GHD performed semi-annual groundwater monitoring events at the Site in May and November 2023. The monitoring program included gauging monitoring wells MW-1 through MW-6 and recovery well RW-1 and collecting samples from MW-2 through MW-6 and RW-1. Wells where LNAPL was present were not sampled.

2.1 Monitoring Well Gauging

On May 30 and November 8, 2023, GHD personnel measured the depth to groundwater and LNAPL thickness, if present, in monitoring wells MW-1 through MW-6 and recovery well RW-1 using an electronic oil/water interface probe (IP). The IP was cleaned with laboratory grade soap and purified water prior to gauging each monitoring well. Depth to groundwater, LNAPL thicknesses, and calculated groundwater elevations are summarized in **Table 2**.

Based on the data collected in 2023, groundwater flow is generally east-southeast and is consistent with historical data for the Site. The groundwater gradient was calculated at 0.0017 foot per linear foot (ft/ft) in May and 0.0018 ft/ft in November. Groundwater potentiometric surface maps are presented as **Figure 3** and **Figure 4**.

2.2 LNAPL Presence and Recovery

GHD performed quarterly LNAPL abatement events for monitoring well MW-1 on March 7, May 30, September 14, and November 8, 2023. The abatement program included hand-bailing LNAPL using a polyethylene bailer quarterly and passively recovering LNAPL using Pig™ monitoring well skimming socks (hydrocarbon absorbent socks) between quarterly bailing events. The absorbent socks were replaced quarterly.

A measurable thickness of LNAPL was gauged in MW-1 during each quarterly event as follows: 1.67 ft. in March, 1.59 ft. in May, 1.63 ft. in September, and 1.71 ft. in November.

The used socks are stored in a sealed and labeled 55-gallon drum on a spill containment pallet on-Site. The socks recovered approximately 0.31 gallons of LNAPL and hand-bailing recovered approximately 3.26 gallons of LNAPL for a combined total of 3.58 gallons recovered in 2023. A summary of LNAPL recovery at the Site is presented in **Table 1**.

2.3 Groundwater Sampling

Following gauging during each 2023 semi-annual groundwater monitoring event and prior to sampling, GHD personnel utilized a bladder pump with dedicated polyethylene tubing for each well to purge a minimum of three well volumes of groundwater or until the well was dry. The monitoring and recovery wells were given time to recover and stabilize prior to collecting a groundwater sample. Groundwater quality parameters of temperature, pH, oxidation reduction potential (ORP), dissolved oxygen (DO), and conductivity were collected with a field-calibrated multi-parameter groundwater quality meter and recorded on groundwater sampling forms. A summary of field parameters is presented in **Table 3**. Monitoring well MW-1 was not sampled due to the presence of LNAPL.

Following purging and confirmation of groundwater stabilization, groundwater samples were collected from MW-2 through MW-6 and RW-1 via low-flow sampling equipment with dedicated polyethylene tubing for each well. The samples were placed in laboratory-prepared sample containers, packed in a cooler with ice, and transported under chain-of-custody documentation to ALS Life Sciences Division, Environmental laboratory in Houston, Texas. All samples were analyzed for BTEX via the United States Environmental Protection Agency (US EPA) SW846 Method 8260B, chloride via US EPA Method 300.0, and total dissolved solids (TDS) via Standard Method 2540.

2.4 Quality Assurance/Quality Control

During each groundwater monitoring event, a field duplicate was collected as a Quality Assurance/Quality Control (QA/QC) sample and subsequently submitted for laboratory analysis. A trip blank was also submitted as a QA/QC sample for each groundwater monitoring event.

2.5 Analytical Results

The New Mexico Water Quality Control Commission (NMWQCC) mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use.

The groundwater analytical results for 2023 are summarized in **Table 4**, and the corresponding laboratory analytical reports are included in **Appendix A**. A COC concentration map depicting concentrations for 2023 is presented as **Figure 5**. A summary of results is discussed below:

- BTEX was not detected at concentrations above laboratory detection limits in the groundwater samples collected from monitoring wells MW-2 through MW-6 during 2023.
- BTEX was detected in the samples collected from recovery well RW-1; however, only the concentrations of benzene exceeded the NMWQCC standard
- Concentrations of chloride were detected in all groundwater samples collected from the monitoring wells during 2023; however, the concentrations did not exceed the NMWQCC standard.
- Concentrations of TDS were detected in all groundwater samples collected from the monitoring wells during 2023; however, the concentrations did not exceed the NMWQCC standard.

3. Summary and Recommendations

3.1 Summary

The following summarizes the information and data presented in this report.

- An average thickness of 1.65 ft. of LNAPL was present in monitoring well MW-1 during 2023.
- Absorbent socks and bailing were deployed as LNAPL recovery methods during 2023.
- Concentrations of benzene are present in the groundwater at the Site that exceed the NMWQCC; however, only in recovery well RW-1. The concentrations appear to be stable to decreasing.
- Concentrations of chloride are present in the groundwater; however, the concentrations did not exceed the NMWQCC standard.
- Concentrations of TDS are present in the groundwater; however, the concentrations did not exceed the NMWQCC standard.

3.2 Recommendations

Based on the results of the 2023 groundwater monitoring events, GHD recommends the following in 2024:

- Conduct semi-annual groundwater monitoring events in May and November 2024.
- Conduct quarterly LNAPL abatement events via hand-bailing at monitoring well MW-1.
- Between LNAPL abatement events, passively recover LNAPL via hydrocarbon absorbent socks in monitoring well MW-1, which will be replaced during each quarterly event.

4. Scope and Limitations

This report has been prepared by GHD for ET Gathering & Processing LLC and may only be used and relied on by ET Gathering & Processing LLC for the purpose agreed between GHD and ET Gathering & Processing LLC.

GHD otherwise disclaims responsibility to any person other than ET Gathering & Processing LLC arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

**Summary of LNAPL Recovery
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457**

Well	Year	Method	LNAPL Recovered (gallons)	Impacted Groundwater Recovered (gallons)
MW-1	2015	Skimmer Pump	8.00	0.00
	2016	Skimmer Pump	57.00	108.00
	2017	Skimmer Pump	147.00	18.00
	2018	Skimmer Pump	92.00	unknown
	2018	MDPE	54.80	269.00
	2019	MDPE	153.65	377.00
	2020	MDPE	121.08	444.00
	2021	Absorbent Socks and Bailing	2.17	0.00
	2022	Absorbent Socks and Bailing	1.31	0.00
	2023	Absorbent Socks and Bailing	3.58	0.00
Total			640.59	1,216.00

Notes:

- 1) LNAPL - light non-aqueous phase liquids.
- 2) MDPE - mobile dual phase extraction.
- 3) GHD assumes 10 ounces of LNAPL recovered per absorbent sock, which is replaced quarterly.
- 4) Approximately 0.25 gallons of LNAPL is recovered during each quarterly bailing event

**Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457**

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
RW-1	120.90	3,312.88	11/1/2013	--	112.60	--	3,200.28
			5/27/2014	--	112.79	--	3,200.09
			6/20/2014	--	112.66	--	3,200.22
			8/11/2014	--	112.99	--	3,199.89
			9/5/2014	--	112.65	--	3,200.23
			12/10/2014	--	113.47	--	3,199.41
			3/2/2015	--	112.20	--	3,200.68
			6/18/2015	--	112.39	--	3,200.49
			10/1/2015	--	112.47	--	3,200.41
			11/24/2015	--	112.42	--	3,200.46
			12/17/2015	--	112.44	--	3,200.44
			1/28/2016	--	112.30	--	3,200.58
			2/24/2016	--	112.30	--	3,200.58
			4/7/2016	--	112.36	--	3,200.52
			5/26/2016	--	112.30	--	3,200.58
			6/30/2016	--	112.35	--	3,200.53
			7/26/2016	--	112.27	--	3,200.61
			9/22/2016	--	112.40	--	3,200.48
			10/5/2016	--	112.41	--	3,200.47
			11/30/2016	--	112.22	--	3,200.66
			2/23/2017	--	112.25	--	3,200.63
			5/10/2017	--	112.34	--	3,200.54
			11/30/2017	--	112.75	--	3,200.13
			5/11/2018	--	112.15	--	3,200.73
			11/8/2018	--	112.00	--	3,200.88
			4/2/2019	--	111.98	--	3,200.90
			5/15/2019	--	111.98	--	3,200.90
			8/12/2019	--	111.99	--	3,200.89
			9/24/2019	--	111.80	--	3,201.08
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	118.30	--	3,194.58
			1/16/2020	--	111.99	--	3,200.89
			3/26/2020	--	112.02	--	3,200.86
			5/13/2020	--	111.86	--	3,201.02
			9/24/2020	--	112.04	--	3,200.84
			5/3/2021	--	111.93	--	3,200.95
			10/6/2021	--	112.00	--	3,200.88
			5/26/2022	--	111.90	--	3,200.98
			11/10/2022	--	111.83	--	3,201.05
			5/30/2023	--	111.98	--	3,200.90
			11/9/2023	--	111.95	--	3,200.93

**Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457**

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-1	117.70	3,313.54	10/31/2013	112.25	115.80	3.55	3,200.40
			11/1/2013	--	112.41	--	3,201.13
			5/27/2014	112.70	115.75	3.05	3,200.08
			6/20/2014	112.65	115.73	3.08	3,200.12
			7/10/2014	112.37	116.12	3.75	3,200.23
			7/24/2014	112.30	116.21	3.91	3,200.26
			7/28/2014	112.47	116.10	3.63	3,200.16
			8/5/2014	112.50	116.18	3.68	3,200.12
			8/11/2014	112.48	116.16	3.68	3,200.14
			8/18/2014	112.45	116.12	3.67	3,200.17
			9/5/2014	112.46	116.12	3.66	3,200.17
			12/10/2014	112.22	115.77	3.55	3,200.43
			3/2/2015	112.05	115.56	3.51	3,200.61
			6/18/2015	112.23	115.71	3.48	3,200.44
			10/1/2015	112.33	115.72	3.39	3,200.36
			11/24/2015	112.30	115.40	3.10	3,200.47
			12/17/2015	112.44	115.03	2.59	3,200.45
			1/28/2016	112.23	114.82	2.59	3,200.66
			2/24/2016	112.32	114.55	2.23	3,200.66
			4/7/2016	112.36	114.99	2.63	3,200.52
			5/26/2016	112.25	114.98	2.73	3,200.61
			6/30/2016	112.36	114.89	2.53	3,200.55
			7/26/2016	112.30	114.71	2.41	3,200.64
			8/25/2016	112.34	114.93	2.59	3,200.55
			9/22/2016	112.55	114.37	1.82	3,200.54
			10/5/2016	112.44	114.83	2.39	3,200.50
			11/30/2016	111.23	114.64	3.41	3,201.46
			2/23/2017	112.21	114.54	2.33	3,200.75
			5/10/2017	112.56	114.05	1.49	3,200.61
			5/30/2017	112.53	113.97	1.44	3,200.65
			11/30/2017	112.43	114.09	1.66	3,200.70
			12/13/2017	112.58	113.37	0.79	3,200.76
			2/27/2018	112.21	114.16	1.95	3,200.84
			3/4/2018	112.29	113.88	1.59	3,200.85
			4/16/2018	112.35	113.57	1.22	3,200.89
			5/11/2018	112.30	113.84	1.54	3,200.86
			6/6/2018	112.25	114.00	1.75	3,200.85
			8/16/2018	112.24	114.13	1.89	3,200.83
			9/24/2018	112.20	114.17	1.97	3,200.85
			11/8/2018	112.12	113.46	1.34	3,201.09
			4/2/2019	112.17	114.26	2.09	3,200.85

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Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-1	117.70	3,313.54	5/15/2019	112.14	114.33	2.19	3,200.85
			6/26/2019	112.18	114.44	2.26	3,200.80
			8/12/2019	112.16	114.36	2.20	3,200.83
			9/24/2019	112.15	114.38	2.23	3,200.83
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	112.20	114.35	2.15	3,200.80
			1/16/2020	112.17	114.35	2.18	3,200.83
			3/26/2020	112.17	114.34	2.17	3,200.83
			5/1/2020	112.19	114.29	2.10	3,200.83
			5/13/2020	112.02	114.13	2.11	3,200.99
			6/3/2020	112.17	114.10	1.93	3,200.89
			9/24/2020	112.24	--	--	--
			9/29/2020	112.24	114.34	2.10	3,200.78
			12/15/2020	112.28	114.40	2.12	3,200.73
			1/28/2021	112.21	114.29	2.08	3,200.81
			3/31/2021	112.23	114.26	2.03	3,200.80
			4/20/2021	112.56	113.53	0.97	3,200.74
			5/3/2021	112.36	113.35	0.99	3,200.93
			6/15/2021	112.56	113.22	0.66	3,200.82
			9/15/2021	112.42	113.36	0.94	3,200.89
			10/6/2021	112.17	114.18	2.01	3,200.87
			5/26/2022	112.27	113.52	1.25	3,200.96
			11/8/2022	instrument error	114.49	--	--
			5/30/2023	112.32	113.91	1.59	3,200.57
			11/9/2023	112.21	113.92	1.71	3,200.90

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Lea County, New Mexico
ET Gathering & Processing LLC
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Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-2	128.10	3,312.39	11/1/2013	--	112.44	--	3,199.95
			5/27/2014	--	112.62	--	3,199.77
			6/20/2014	--	112.49	--	3,199.90
			8/11/2014	--	112.91	--	3,199.48
			9/5/2014	--	112.50	--	3,199.89
			12/10/2014	--	112.31	--	3,200.08
			3/2/2015	--	112.15	--	3,200.24
			6/18/2015	--	112.32	--	3,200.07
			10/1/2015	--	112.42	--	3,199.97
			11/24/2015	--	112.26	--	3,200.13
			12/17/2015	--	112.33	--	3,200.06
			1/28/2016	--	112.11	--	3,200.28
			2/24/2016	--	112.12	--	3,200.27
			4/7/2016	--	112.27	--	3,200.12
			5/26/2016	--	112.18	--	3,200.21
			6/30/2016	--	112.22	--	3,200.17
			7/26/2016	--	112.11	--	3,200.28
			9/22/2016	--	112.22	--	3,200.17
			10/5/2016	--	112.26	--	3,200.13
			11/30/2016	--	112.05	--	3,200.34
			5/10/2017	--	112.16	--	3,200.23
			11/30/2017	--	111.90	--	3,200.49
			5/11/2018	--	111.89	--	3,200.50
			11/8/2018	--	112.10	--	3,200.29
			4/2/2019	--	111.87	--	3,200.52
			5/15/2019	--	111.91	--	3,200.48
			8/12/2019	--	111.90	--	3,200.49
			9/24/2019	--	111.84	--	3,200.55
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	--	--	--
			1/16/2020	--	111.90	--	3,200.49
			3/26/2020	--	111.94	--	3,200.45
			5/13/2020	--	111.76	--	3,200.63
			9/24/2020	--	111.95	--	3,200.44
			5/3/2021	--	111.90	--	3,200.49
			10/6/2021	--	111.88	--	3,200.51
			5/26/2022	--	112.23	--	3,200.16
			11/9/2022	--	111.71	--	3,200.68
			5/30/2023	--	111.90	--	3,200.49
			11/9/2023	--	111.89	--	3,200.50

**Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457**

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-3	127.20	3,312.78	11/1/2013	--	112.75	--	3,200.03
			5/27/2014	--	112.90	--	3,199.88
			6/20/2014	--	112.47	--	3,200.31
			8/11/2014	--	112.90	--	3,199.88
			9/5/2014	--	112.79	--	3,199.99
			12/10/2014	--	112.60	--	3,200.18
			3/2/2015	--	112.41	--	3,200.37
			6/18/2015	--	112.58	--	3,200.20
			10/1/2015	--	112.63	--	3,200.15
			11/24/2015	--	112.54	--	3,200.24
			12/17/2015	--	112.61	--	3,200.17
			1/28/2016	--	112.39	--	3,200.39
			2/24/2016	--	112.37	--	3,200.41
			4/7/2016	--	112.54	--	3,200.24
			5/26/2016	--	112.44	--	3,200.34
			6/30/2016	--	112.47	--	3,200.31
			7/26/2016	--	112.37	--	3,200.41
			9/22/2016	--	112.49	--	3,200.29
			10/5/2016	--	112.53	--	3,200.25
			11/30/2016	--	112.32	--	3,200.46
			5/10/2017	--	112.41	--	3,200.37
			11/30/2017	--	112.21	--	3,200.57
			5/11/2018	--	112.16	--	3,200.62
			11/8/2018	--	112.95	--	3,199.83
			4/2/2019	--	112.14	--	3,200.64
			5/15/2019	--	112.19	--	3,200.59
			8/12/2019	--	112.17	--	3,200.61
			9/24/2019	--	112.05	--	3,200.73
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	--	--	--
			1/16/2020	--	112.14	--	3,200.64
			3/26/2020	--	112.18	--	3,200.60
			5/13/2020	--	112.05	--	3,200.73
			9/24/2020	--	112.19	--	3,200.59
			5/3/2021	--	112.10	--	3,200.68
			10/6/2021	--	112.11	--	3,200.67
			5/26/2022	--	112.01	--	3,200.77
			11/9/2022	--	111.97	--	3,200.81
			5/30/2023	--	112.14	--	3,200.64
			11/9/2023	--	112.03	--	3,200.75

**Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457**

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-4	128.70	3,313.19	11/1/2013	--	112.85	--	3,200.34
			5/27/2014	--	113.05	--	3,200.14
			6/20/2014	--	112.93	--	3,200.26
			8/11/2014	--	113.03	--	3,200.16
			9/5/2014	--	112.91	--	3,200.28
			12/10/2014	--	112.75	--	3,200.44
			3/2/2015	--	112.55	--	3,200.64
			6/18/2015	--	112.74	--	3,200.45
			10/1/2015	--	112.81	--	3,200.38
			11/24/2015	--	112.70	--	3,200.49
			12/17/2015	--	112.77	--	3,200.42
			1/28/2016	--	112.53	--	3,200.66
			2/24/2016	--	112.53	--	3,200.66
			4/7/2016	--	112.66	--	3,200.53
			5/26/2016	--	112.58	--	3,200.61
			6/30/2016	--	112.64	--	3,200.55
			7/26/2016	--	112.64	--	3,200.55
			9/22/2016	--	112.65	--	3,200.54
			10/5/2016	--	112.69	--	3,200.50
			11/30/2016	--	112.46	--	3,200.73
			5/10/2017	--	112.56	--	3,200.63
			11/30/2017	--	112.38	--	3,200.81
			5/11/2018	--	112.32	--	3,200.87
			11/8/2018	--	112.25	--	3,200.94
			4/2/2019	--	112.30	--	3,200.89
			5/15/2019	--	112.33	--	3,200.86
			8/12/2019	--	112.34	--	3,200.85
			9/24/2019	--	112.25	--	3,200.94
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	--	--	--
			1/16/2020	--	112.32	--	3,200.87
			3/26/2020	--	112.34	--	3,200.85
			5/13/2020	--	112.18	--	3,201.01
			9/24/2020	--	112.36	--	3,200.83
			5/3/2021	--	112.26	--	3,200.93
			10/6/2021	--	112.27	--	3,200.92
			5/26/2022	--	112.19	--	3,201.00
			11/9/2022	--	112.12	--	3,201.07
			5/30/2023	--	112.32	--	3,200.87
			11/9/2023	--	112.22	--	3,200.97

**Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457**

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-5	127.30	3,314.39	11/1/2013	--	113.85	--	3,200.54
			5/27/2014	--	114.05	--	3,200.34
			6/20/2014	--	113.94	--	3,200.45
			8/11/2014	--	114.03	--	3,200.36
			9/5/2014	--	113.94	--	3,200.45
			12/10/2014	--	113.76	--	3,200.63
			3/2/2015	--	113.58	--	3,200.81
			6/18/2015	--	113.17	--	3,201.22
			10/1/2015	--	113.79	--	3,200.60
			11/24/2015	--	113.69	--	3,200.70
			12/17/2015	--	113.72	--	3,200.67
			1/28/2016	--	113.53	--	3,200.86
			2/24/2016	--	113.51	--	3,200.88
			4/7/2016	--	113.62	--	3,200.77
			5/26/2016	--	113.56	--	3,200.83
			6/30/2016	--	113.61	--	3,200.78
			7/26/2016	--	113.52	--	3,200.87
			9/22/2016	--	113.63	--	3,200.76
			10/5/2016	--	113.66	--	3,200.73
			11/30/2016	--	113.45	--	3,200.94
			2/23/2017	--	113.42	--	3,200.97
			5/10/2017	--	113.55	--	3,200.84
			11/30/2017	--	113.36	--	3,201.03
			5/11/2018	--	113.26	--	3,201.13
			11/8/2018	--	113.32	--	3,201.07
			4/2/2019	--	113.28	--	3,201.11
			5/15/2019	--	113.30	--	3,201.09
			8/12/2019	--	113.31	--	3,201.08
			9/24/2019	--	113.30	--	3,201.09
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	113.33	--	3,201.06
			1/16/2020	--	113.31	--	3,201.08
			3/26/2020	--	113.33	--	3,201.06
			5/13/2020	--	113.15	--	3,201.24
			9/24/2020	--	113.33	--	3,201.06
			5/3/2021	--	113.25	--	3,201.14
			10/6/2021	--	113.27	--	3,201.12
			5/26/2022	--	113.18	--	3,201.21
			11/9/2022	--	113.16	--	3,201.23
			5/30/2023	--	113.28	--	3,201.11
			11/9/2023	--	113.22	--	3,201.17

**Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457**

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-6	128.00	3,314.39	11/1/2013	--	113.95	--	3,200.44
			5/27/2014	--	114.12	--	3,200.27
			6/20/2014	--	114.04	--	3,200.35
			8/11/2014	--	114.10	--	3,200.29
			9/5/2014	--	114.01	--	3,200.38
			12/10/2014	--	113.82	--	3,200.57
			3/2/2015	--	113.66	--	3,200.73
			6/18/2015	--	113.81	--	3,200.58
			10/1/2015	--	113.89	--	3,200.50
			11/24/2015	--	113.77	--	3,200.62
			12/17/2015	--	113.82	--	3,200.57
			1/28/2016	--	113.63	--	3,200.76
			2/24/2016	--	113.62	--	3,200.77
			4/7/2016	--	113.72	--	3,200.67
			5/26/2016	--	113.68	--	3,200.71
			6/30/2016	--	113.71	--	3,200.68
			7/26/2016	--	113.61	--	3,200.78
			9/22/2016	--	113.73	--	3,200.66
			10/5/2016	--	113.76	--	3,200.63
			11/30/2016	--	113.55	--	3,200.84
			2/23/2017	--	114.49	--	3,199.90
			5/10/2017	--	113.66	--	3,200.73
			11/30/2017	--	113.55	--	3,200.84
			5/11/2018	--	113.45	--	3,200.94
			11/8/2018	--	113.42	--	3,200.97
			4/2/2019	--	113.39	--	3,201.00
			5/15/2019	--	113.41	--	3,200.98
			8/12/2019	--	113.40	--	3,200.99
			9/24/2019	--	113.40	--	3,200.99
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	113.42	--	3,200.97
			1/16/2020	--	113.42	--	3,200.97
			3/26/2020	--	113.43	--	3,200.96
			5/13/2020	--	113.26	--	3,201.13
			9/24/2020	--	113.43	--	3,200.96
			5/3/2021	--	113.34	--	3,201.05
			10/6/2021	--	113.35	--	3,201.04
			5/26/2022	--	113.16	--	3,201.23
			11/9/2022	--	113.27	--	3,201.12
			5/30/2023	--	113.43	--	3,200.96
			11/9/2023	--	113.37	--	3,201.02

Notes:

- 1) Well casing elevations from survey conducted by Asel Surveying on April 22, 2015.
- 2) ft bgs = feet below ground surface.
- 3) TOC = top of casing.
- 4) ft AMSL = feet above mean sea level.
- 5) LNAPL = light non-aqueous phase liquids.
- 6) -- = not applicable or not measured
- 7) A specific gravity value of 0.75 was used to calculate the groundwater elevation wells where LNAPL was

**Summary of Groundwater Quality Field Parameters
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457**

Well ID	Date	Temperature (°C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
RW-1	10/1/2015	22.23	6.79	1,070	7.87	-159.90
	4/7/2016	21.20	7.17	1,260	0.08	-149.80
	10/5/2016	23.43	7.21	1,340	2.71	-177.00
	5/10/2017	20.08	6.88	1,080	0.31	-170.80
	11/30/2017	19.55	8.14	1,500	2.39	-168.00
	5/11/2018	--	7.09	1,140	--	-258.50
	11/8/2018	18.96	7.10	1,790	1.03	-149.20
	5/15/2019	19.55	6.50	1,530	1.84	-140.30
	5/13/2020	21.40	6.95	1,780	0.95	-163.00
	9/24/2020	21.03	7.12	2,070	0.14	-117.20
	5/4/2021	22.17	7.09	91,000	0.39	-79.80
	10/6/2021	21.73	7.03	903.10	0.01	-191.40
	5/26/2022	23.43	6.73	873.43	1.86	36.60
	11/8/2022	24.22	6.54	1,040	3.58	141.60
	5/30/2023	23.26	6.37	0.39	-45.65	931.90
	11/8/2023	25.34	4.17	2.02	132.00	839.53
MW-1	Not sampled since October 2013 due to presence of LNAPL.					
MW-2	6/20/2014	--	--	--	--	--
	9/23/2014	--	--	--	--	--
	12/10/2014	22.30	7.33	825.00	6.80	7.33
	3/2/2015	--	--	--	--	--
	6/16/2015	24.00	7.23	913.00	913.00	88.20
	10/1/2015	21.12	7.13	947.00	7.47	112.20
	4/7/2016	21.10	7.23	930.00	6.51	99.30
	10/5/2016	23.14	7.01	1,050	6.68	215.00
	5/10/2017	20.13	6.93	1,010	7.11	-20.30
	11/30/2017	19.45	7.59	1,280	4.08	-48.90
	5/11/2018	--	6.74	955.00	--	-95.80
	11/8/2018	17.94	7.30	974.00	--	-32.00
	5/15/2019	18.54	6.88	841.00	5.11	-38.90
	11/11/2019	Electronic Field Data Lost				
	5/13/2020	19.90	6.96	1,000	4.11	69.20
	9/24/2020	21.98	7.19	947.30	5.14	76.90
	5/4/2021	22.00	7.29	45,500	2.50	29.80
	10/6/2021	21.55	7.39	553.40	3.02	33.50
	5/26/2022	23.70	7.01	762.59	2.36	199.10
	11/8/2022	23.03	6.70	984.68	2.68	270.90
	5/30/2023	27.87	7.27	6.48	129.52	833.36
	11/8/2023	24.97	6.74	6.83	224.80	835.71
MW-3	6/20/2014	--	--	--	--	--
	9/23/2014	--	--	--	--	--
	12/10/2014	22.50	6.86	1,170	0.20	-105.20
	3/2/2015	--	--	--	--	--
	6/16/2015	24.90	7.26	1,070	0.10	-190.90
	10/1/2015	21.67	6.90	1,010	1.27	-48.70
	4/11/2016	21.50	7.15	890.00	1.40	9.10
	10/5/2016	23.56	7.07	968.00	3.39	47.00
	5/10/2017	20.76	7.12	787.00	1.67	-115.80
	11/30/2017	20.01	7.68	1,030	1.82	-135.10
	5/11/2018	--	6.64	927.00	--	-160.00
	11/8/2018	18.12	6.95	1,200	--	-64.10
	5/15/2019	19.06	6.50	932.00	3.97	-89.80
	11/11/2019	Electronic Field Data Lost				
	5/13/2020	21.20	7.05	1,100	0.80	-13.00
	9/24/2020	22.41	6.98	1,060	1.54	-53.90
	5/4/2021	21.88	6.99	53,300	0.13	-42.20
	10/6/2021	22.16	7.29	517.00	1.41	-95.70
	5/26/2022	24.14	7.59	610.79	0.22	96.70
	11/8/2022	21.93	6.97	767.61	0.27	178.10
	5/30/2023	24.83	7.11	3.26	31.42	820.78
	11/8/2023	27.39	5.75	4.27	130.60	859.63

**Summary of Groundwater Quality Field Parameters
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457**

Well ID	Date	Temperature (°C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-4	6/20/2014	--	--	--	--	--
	9/22/2014	--	--	--	--	--
	12/10/2014	21.40	7.18	810.00	6.04	7.18
	3/3/2015	22.00	7.13	892.00	6.60	7.13
	6/16/2015	23.70	7.32	844.00	7.26	7.32
	10/1/2015	20.79	7.13	842.00	6.91	96.30
	4/7/2016	20.90	7.18	850.00	5.54	69.50
	10/5/2016	22.93	7.10	985.00	6.50	223.00
	5/10/2017	19.94	7.24	846.00	6.36	-71.10
	11/30/2017	18.97	7.49	1,090	2.76	-40.90
	5/11/2018	--	6.75	759.00	--	-131.70
	11/8/2018	17.87	7.29	805.00	--	-50.60
	5/15/2019	18.64	6.91	677.00	6.63	-3.10
	11/11/2019	Electronic Field Data Lost				
	5/13/2020	20.30	7.29	710.00	4.15	60.30
	9/24/2020	21.66	7.46	658.90	6.16	68.70
	5/4/2021	21.55	7.52	33,300	5.97	33.90
	10/6/2021	21.15	7.71	394.40	6.22	30.10
	5/26/2022	23.18	8.16	498.80	7.09	190.20
	11/8/2022	22.30	7.25	601.44	6.54	278.60
	5/30/2023	25.85	7.27	6.97	129.33	600.08
	11/8/2023	23.51	6.64	8.33	193.40	665.62
MW-5	6/20/2014	--	--	--	--	--
	9/22/2014	--	--	--	--	--
	12/10/2014	23.00	6.79	1,490	0.16	-123.50
	3/3/2015	22.20	6.79	1,690	0.21	-70.30
	6/16/2015	23.40	7.02	1,200	0.17	-90.20
	10/1/2015	21.18	7.03	1,140	1.34	-113.70
	4/7/2016	21.20	7.44	890.00	0.49	-73.00
	10/5/2016	23.16	7.36	979.00	3.62	-69.00
	5/10/2017	19.97	7.23	835.00	2.20	-13.30
	11/30/2017	19.29	7.65	1,610	2.48	-152.90
	5/11/2018	--	7.09	1,140	--	-88.50
	11/8/2018	18.30	7.14	1,060	2.20	-63.80
	5/15/2019	19.11	6.88	801.00	5.84	-61.20
	11/11/2019	Electronic Field Data Lost				
	5/13/2020	20.70	7.16	850.00	0.89	20.90
	9/24/2020	21.90	7.34	807.50	1.33	-31.40
	5/4/2021	22.45	7.51	37,700	0.27	-31.10
	10/6/2021	22.00	7.57	487.40	0.86	-61.80
	5/26/2022	23.21	7.44	620.05	0.44	126.30
	11/8/2022	23.18	6.91	913.20	0.88	194.90
	5/30/2023	23.12	5.58	0.12	131.54	1,357
	11/8/2023	26.52	6.44	6.36	141.70	1,718
MW-6	6/20/2014	--	--	--	--	--
	9/22/2014	--	--	--	--	--
	12/10/2014	23.00	7.13	655.00	4.23	7.13
	3/3/2015	23.80	7.17	709.00	5.48	7.17
	6/16/2015	24.40	7.23	697.00	4.92	7.23
	10/1/2015	21.29	7.02	708.00	6.29	52.90
	4/7/2016	21.90	7.15	660.00	3.39	71.00
	10/5/2016	23.35	7.25	753.00	4.87	142.00
	5/10/2017	20.60	7.08	656.00	4.01	-93.80
	11/30/2017	19.58	7.87	911.00	3.62	-97.40
	5/11/2018	--	6.91	835.00	--	-65.10
	11/8/2018	17.99	7.29	882.00	3.92	-58.40
	5/15/2019	19.10	6.71	806.00	3.22	-44.90
	11/11/2019	Electronic Field Data Lost				
	5/13/2020	21.10	6.85	1,070	1.15	-14.00
	9/24/2020	22.09	7.06	891.40	0.94	-0.20
	5/4/2021	23.03	7.24	41,100	0.32	10.60
	10/6/2021	21.73	7.03	903.10	0.01	-191.40
	5/26/2022	23.84	7.00	792.63	0.30	132.20
	11/8/2022	24.38	6.66	990.44	0.49	248.30
	5/30/2023	27.99	6.13	0.43	114.11	954.61
	11/8/2023	25.78	6.09	6.53	179.10	886.71

Notes:

°C - degrees Celsius.

µS/cm - microsiemens per centimeter

mg/L - milligrams per liter.

-- = not measured or not recorded.

mV - millivolts.

DO - dissolved oxygen.

ORP - oxidation reduction potential.

Summary of Groundwater Analytical Results
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride	TDS
NMWQCC Groundwater Quality Standards		0.01	1.00	0.70	0.62	250	1,000
RW-1	10/1/2015	1.00	0.470	0.0260	0.200	320	1,110
	4/7/2016	0.12	0.110	0.0120	0.110	290	1,070
	10/5/2016	0.57	0.0200	0.00990	0.0930	200	950
	5/10/2017	0.15	0.0250	0.0110	0.0350	180	920
	11/30/2017	0.0076	0.00690	0.00180	0.00990	140	610
	5/11/2018	1.30	0.390	0.0250	0.530	100	540
	11/8/2018	0.360	0.0130	0.00670	0.0300	250	910
	5/15/2019	1.50	0.0770	0.0270	0.140	280	980
	11/11/2019	0.680	0.0720	0.0210	0.110	250	940
	5/13/2020	1.50	0.100	0.00500	0.160	360	1,030
	9/24/2020	0.540	0.0590	0.0280	0.0410	500	1,460
	5/4/2021	0.860	<0.00500	0.0270	0.0150	310	1,150
	10/6/2021	1.30	0.200	0.0490	0.170	240	940
	5/26/2022	0.025	<0.00100	<0.00100	<0.00150	140	606
	11/9/2022	1.10	0.330	0.0250	0.250	120	660
MW-1	5/30/2023	0.8	0.1	0.018	0.15	128	578
	11/8/2023	0.38	0.06	0.016	0.033	90.8	460
	2/24/2013	4.91	6.21	0.798	2.24	57.1	650
	10/1/2015	Not Sampled - LNAPL					
	4/7/2016	Not Sampled - LNAPL					
	10/5/2016	Not Sampled - LNAPL					
	5/10/2017	Not Sampled - LNAPL					
	11/30/2017	Not Sampled - LNAPL					
	5/11/2018	Not Sampled - LNAPL					
	11/8/2018	Not Sampled - LNAPL					
	5/15/2019	Not Sampled - LNAPL					
	11/11/2019	Not Sampled - LNAPL					
	5/13/2020	Not Sampled - LNAPL					
	9/24/2020	Not Sampled - LNAPL					
	5/4/2021	Not Sampled - LNAPL					
	10/6/2021	Not Sampled - LNAPL					
MW-2	5/26/2022	Not Sampled - LNAPL					
	11/9/2022	Not Sampled - LNAPL					
	5/30/2023	Not Sampled - LNAPL					
	11/8/2023	Not Sampled - LNAPL					
	6/20/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	9/23/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	12/10/2014	<0.000190	<0.000180	<0.000160	<0.000510	--	--
	3/2/2015	<0.000190	<0.000180	<0.000160	<0.000510	--	--
	6/16/2015	<0.000190	<0.000180	<0.000160	<0.000510	--	--
	10/1/2015	<0.00200	<0.00200	<0.00200	<0.00300	65	690
	4/7/2016	<0.00100	<0.00100	<0.00100	<0.00150	60	910
	10/5/2016	<0.00100	<0.00100	<0.00100	<0.00150	57	680
	5/10/2017	<0.00100	<0.00100	<0.00100	<0.00150	62	685
	11/30/2017	<0.00100	<0.00100	<0.00100	<0.00150	33	465
	5/11/2018	<0.00100	<0.00100	<0.00100	<0.00150	59	632
	11/8/2018	<0.00100	<0.00100	<0.00100	<0.00150	61	720
	5/15/2019	<0.00100	<0.00100	<0.00100	<0.00150	62	612
	11/11/2019	<0.00100	<0.00100	<0.00100	<0.00150	62	656
	5/13/2020	<0.00100	<0.00100	<0.00100	<0.00150	65	640
	9/24/2020	<0.00100	<0.00100	<0.00100	<0.00150	70	650
	5/4/2021	<0.00100	<0.00100	<0.00100	<0.00150	61	604
	10/6/2021	<0.00100	<0.00100	<0.00100	<0.00150	61	610
	5/26/2022	<0.00100	<0.00100	<0.00100	<0.00150	64	626
	11/10/2022	<0.00100	<0.00100	<0.00100	<0.00150	61	637
	5/30/2023	<0.0010	<0.0010	<0.0010	<0.0010	64.4	536
	11/8/2023	<0.0010	<0.0010	<0.0010	<0.0010	59.2	546

Summary of Groundwater Analytical Results
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

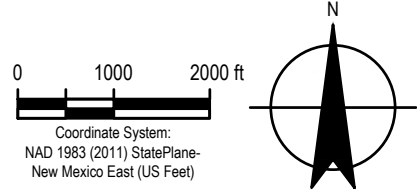
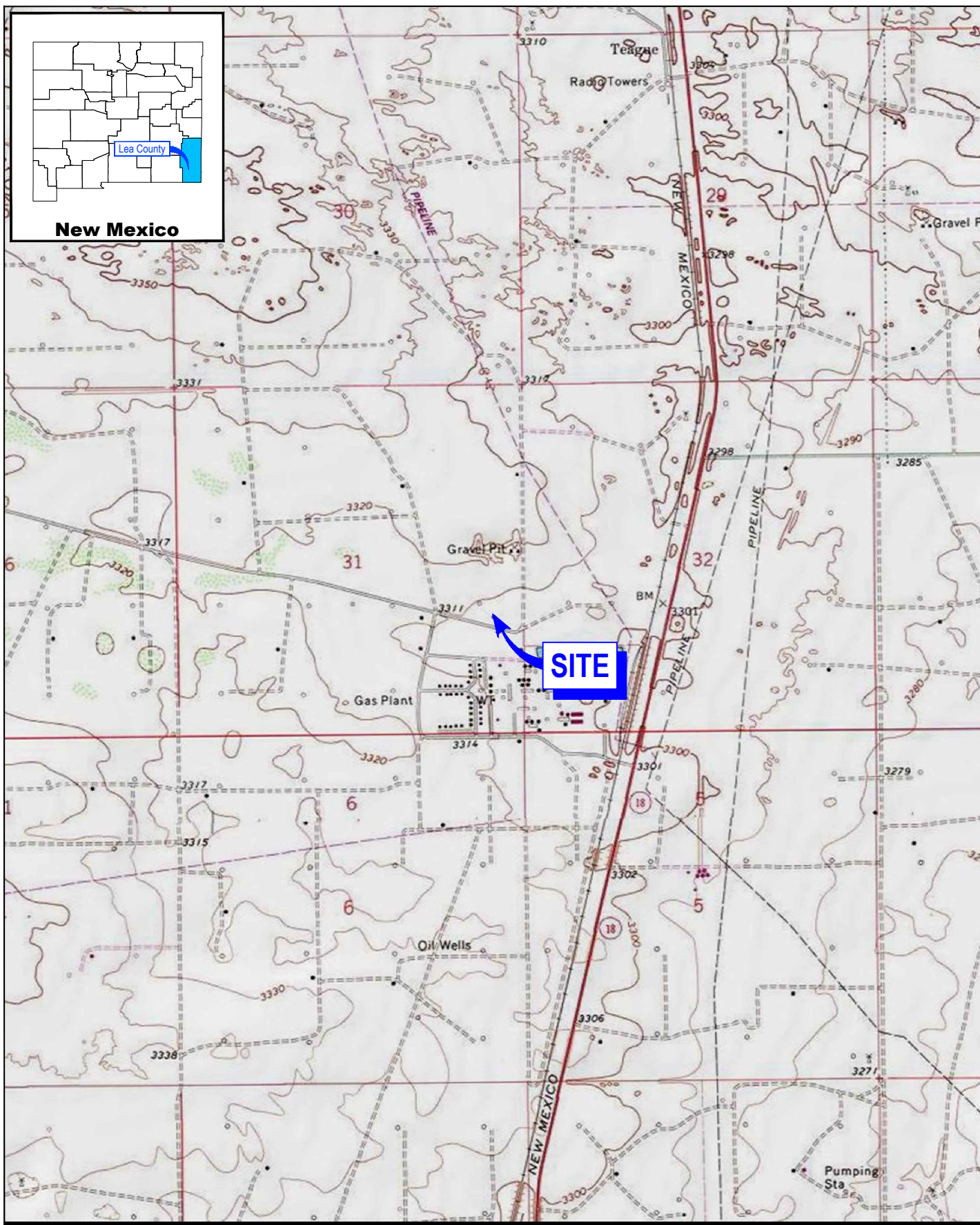
Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride	TDS
MW-3	6/20/2014	<0.00100	<0.00100	<0.00100	0.0398	--	--
	9/23/2014	<0.00100	<0.00100	<0.00100	0.204	--	--
	12/10/2014	0.000660	0.000350 J	0.000180 J	0.0120	--	--
	3/2/2015	0.000700 J	0.000670 J	0.000290 J	0.0231 J	--	--
	6/16/2015	0.000673	<0.000180	<0.000160	0.00282	--	--
	10/1/2015	<0.00200	<0.00200	<0.00200	<0.00300	120	920
	4/11/2016	<0.00100	<0.00100	<0.00100	<0.00150	79	530
	10/5/2016	<0.00100	<0.00100	<0.00100	<0.00150	64	580
	5/10/2017	<0.00100	<0.00100	<0.00100	<0.00150	50	630
	11/30/2017	<0.00100	<0.00100	<0.00100	<0.00150	49	640
	5/11/2018	<0.00100	<0.00100	<0.00100	0.00750	72	602
	11/8/2018	<0.00100	<0.00100	<0.00100	0.0200	100	790
	5/15/2019	<0.00100	<0.00100	<0.00100	<0.00150	92	700
	11/11/2019	<0.00100	<0.00100	<0.00100	<0.00150	75	665
	5/13/2020	<0.00100	<0.00100	<0.00100	<0.00150	88	650
	9/24/2020	<0.00100	<0.00100	<0.00100	<0.00150	88	682
	5/4/2021	<0.00100	<0.00100	<0.00100	<0.00150	63	652
	10/6/2021	<0.00100	<0.00100	<0.00100	<0.00150	50	535
	5/26/2022	<0.00100	<0.00100	<0.00100	<0.00150	52	506
	11/9/2022	<0.00100	<0.00100	<0.00100	<0.00150	49	494
	5/30/2023	<0.0010	<0.0010	<0.0010	<0.0010	68.0	550
	11/8/2023	<0.0010	<0.0010	<0.0010	<0.0010	50.7	654
MW-4	6/20/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	9/22/2014	<0.00100	<0.00100	<0.00100	0.00310	--	--
	12/10/2014	<0.000190	0.000200 J	<0.000160	<0.000510	--	--
	3/3/2015	<0.000190	<0.000180	<0.000160	<0.000510	70	560
	6/16/2015	<0.000190	0.000197 J	<0.000160	<0.000510	--	--
	10/1/2015	<0.00200	<0.00200	<0.00200	<0.00300	69	560
	4/7/2016	<0.00100	<0.00100	<0.00100	<0.00150	71	680
	10/5/2016	<0.00100	<0.00100	<0.00100	<0.00150	79	600
	5/10/2017	<0.00100	<0.00100	<0.00100	<0.00150	71	620
	11/30/2017	<0.00100	<0.00100	<0.00100	<0.00150	63	510
	5/11/2018	<0.00100	<0.00100	<0.00100	<0.00150	60	526
	11/8/2018	<0.00100	<0.00100	<0.00100	<0.00150	56	520
	5/15/2019	<0.00100	<0.00100	<0.00100	<0.00150	55	500
	11/11/2019	<0.00100	<0.00100	<0.00100	<0.00150	52	482
	5/13/2020	<0.00100	<0.00100	<0.00100	<0.00150	50	464
	9/24/2020	<0.00100	<0.00100	<0.00100	<0.00150	52	502
	5/4/2021	<0.00100	<0.00100	<0.00100	<0.00150	44	445
	10/6/2021	<0.00100	<0.00100	<0.00100	<0.00150	42	390
	5/26/2022	<0.00100	<0.00100	<0.00100	<0.00150	43	422
	11/9/2022	<0.00100	<0.00100	<0.00100	<0.00150	41	420
	5/30/2023	<0.0010	<0.0010	<0.0010	<0.0010	48.5	400
	11/8/2023	<0.0010	<0.0010	<0.0010	<0.0010	48.2	234

Summary of Groundwater Analytical Results
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride	TDS
MW-5	6/20/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	9/22/2014	<0.00100	<0.00100	<0.00100	0.00140	--	--
	12/10/2014	0.0160	0.000190 J	0.000200 J	0.000860 J	--	--
	3/3/2015	0.00430	<0.000180	<0.000160	0.000750 J	230	930
	6/16/2015	0.000503	0.000262 J	<0.0001600	0.000521 J	--	--
	10/1/2015	0.00370	<0.00100	<0.00100	<0.00150	140	355
	4/7/2016	<0.00100	<0.00100	<0.00100	<0.00150	95	615
	10/5/2016	<0.00100	<0.00100	<0.00100	<0.00150	70	516
	5/10/2017	<0.00100	<0.00100	<0.00100	<0.00150	81	486
	11/30/2017	<0.00100	<0.00100	<0.00100	<0.00150	120	650
	5/11/2018	<0.00100	<0.00100	<0.00100	<0.00150	170	712
	11/8/2018	<0.00100	<0.00100	<0.00100	<0.00150	130	585
	5/15/2019	<0.00100	<0.00100	<0.00100	<0.00150	150	644
	11/11/2019	<0.00100	<0.00100	<0.00100	<0.00150	130	628
	5/13/2020	<0.00100	<0.00100	<0.00100	<0.00150	78	532
	9/24/2020	<0.00100	<0.00100	<0.00100	<0.00150	87	495
	5/4/2021	<0.00100	<0.00100	<0.00100	<0.00150	67	462
	10/6/2021	<0.00100	<0.00100	<0.00100	<0.00150	77	512
	5/26/2022	<0.00100	<0.00100	<0.00100	<0.00150	82	486
	11/9/2022	<0.00100	<0.00100	<0.00100	<0.00150	110	578
	5/30/2023	<0.0010	<0.0010	<0.0010	<0.0010	235	900
	11/8/2023	<0.0010	<0.0010	<0.0010	<0.0010	214	944
MW-6	6/20/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	9/22/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	12/10/2014	<0.000190	0.00200 J	<0.000160	<0.000510	--	--
	3/3/2015	<0.000190	<0.000180	<0.000160	<0.000510	56	430
	6/16/2015	<0.000190	0.000229 J	<0.000160	<0.000510	--	--
	10/1/2015	<0.00100	<0.00100	<0.00100	<0.00150	68	520
	4/7/2016	<0.00100	<0.00100	<0.00100	<0.00150	58	476
	10/5/2016	<0.00100	<0.00100	<0.00100	<0.00150	52	460
	5/10/2017	<0.00100	<0.00100	<0.00100	<0.00150	59	464
	11/30/2017	<0.00100	<0.00100	<0.00100	<0.00150	63	444
	5/11/2018	<0.00100	<0.00100	<0.00100	<0.00150	51	320
	11/8/2018	<0.00100	<0.00100	<0.00100	<0.00150	100	550
	5/15/2019	<0.00100	<0.00100	<0.00100	<0.00150	88	576
	11/11/2019	<0.00100	<0.00100	<0.00100	<0.00150	84	620
	5/13/2020	<0.00100	<0.00100	<0.00100	<0.00150	95	644
	9/24/2020	<0.00100	<0.00100	<0.00100	<0.00150	92	598
	5/4/2021	<0.00100	<0.00100	<0.00100	<0.00150	72	533
	10/6/2021	<0.00100	<0.00100	<0.00100	<0.00150	72	522
	5/26/2022	<0.00100	<0.00100	<0.00100	<0.00150	110	608
	11/9/2022	<0.00100	<0.00100	<0.00100	<0.00150	100	660
	5/30/2023	<0.0010	<0.0010	<0.0010	<0.0010	91.3	580
	11/8/2023	<0.0010	<0.0010	<0.0010	<0.0010	78.1	518

Notes:

- 1) Analytical results are presented in milligrams per liter (mg/L).
- 2) TDS - total dissolved solids.
- 3) NMWQCC = New Mexico Water Quality Control Commission.
- 4) < - Analyte was not detected at or above the laboratory reporting limit.
- 5) -- = not analyzed.
- 6) Shaded/bolded results exceed their respective NMWQCC groundwater quality standard.



ET GATHERING & PROCESSING LLC
LEA COUNTY, NEW MEXICO
JAL NO. 4 FORMER TANK BATTERY
NMOCD 1RP-1457

Project No. 12603939
Date January 2024

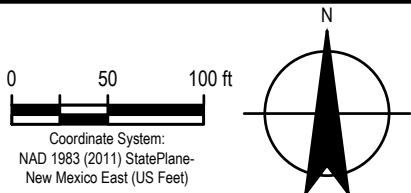
SITE LOCATION MAP

FIGURE 1



LEGEND

-  MONITORING WELL LOCATION
-  RECOVERY WELL LOCATION
-  APPROXIMATE RELEASE POINT



Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

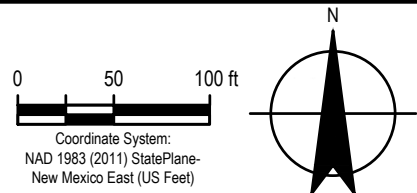
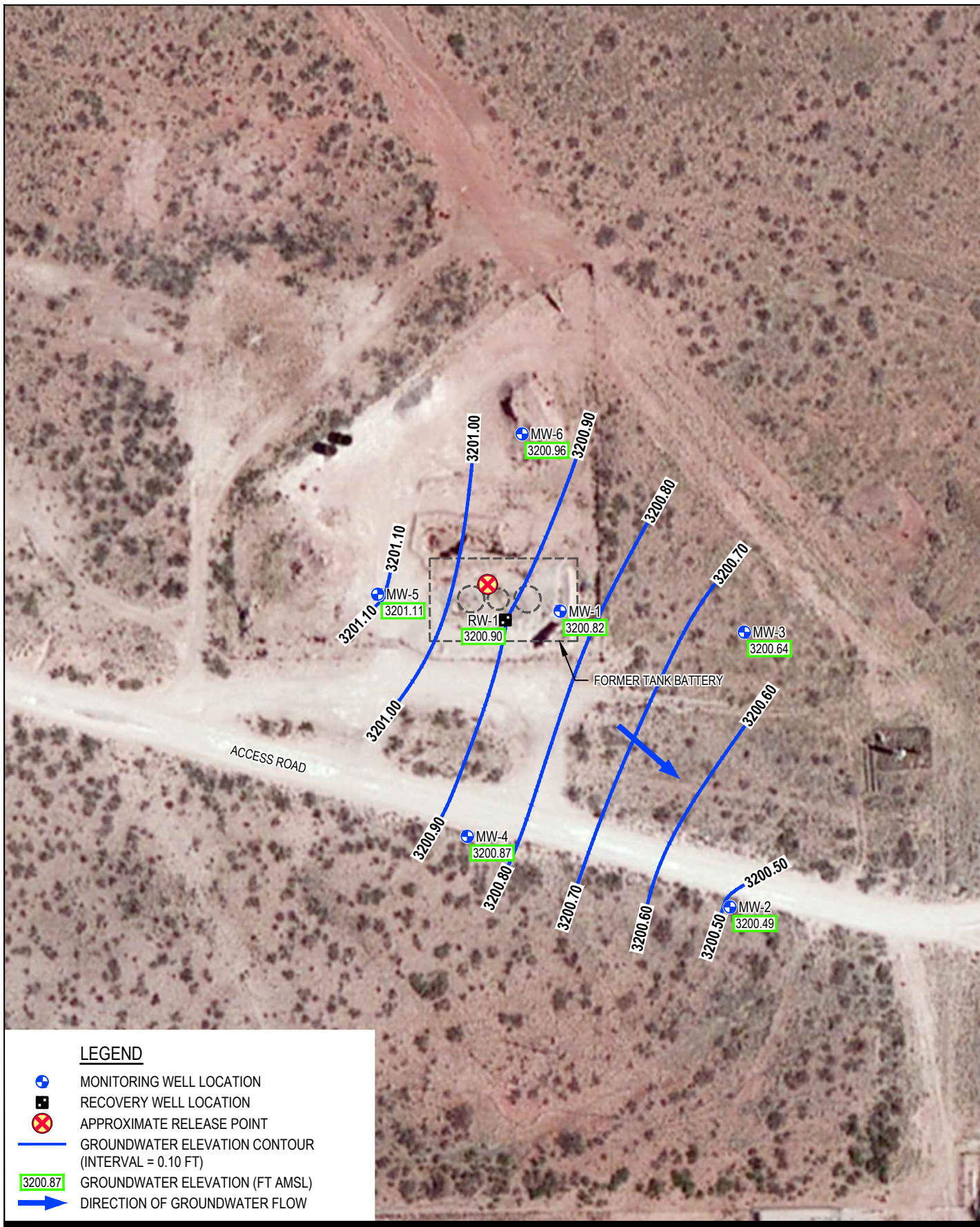


ET GATHERING & PROCESSING LLC
LEA COUNTY, NEW MEXICO
JAL NO. 4 FORMER TANK BATTERY
NMOCD 1RP-1457

SITE DETAILS MAP

Project No. 12603939
Date December 2023

FIGURE 2

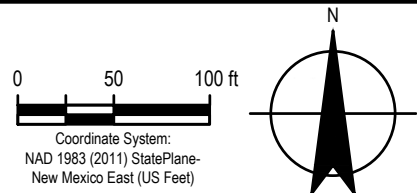
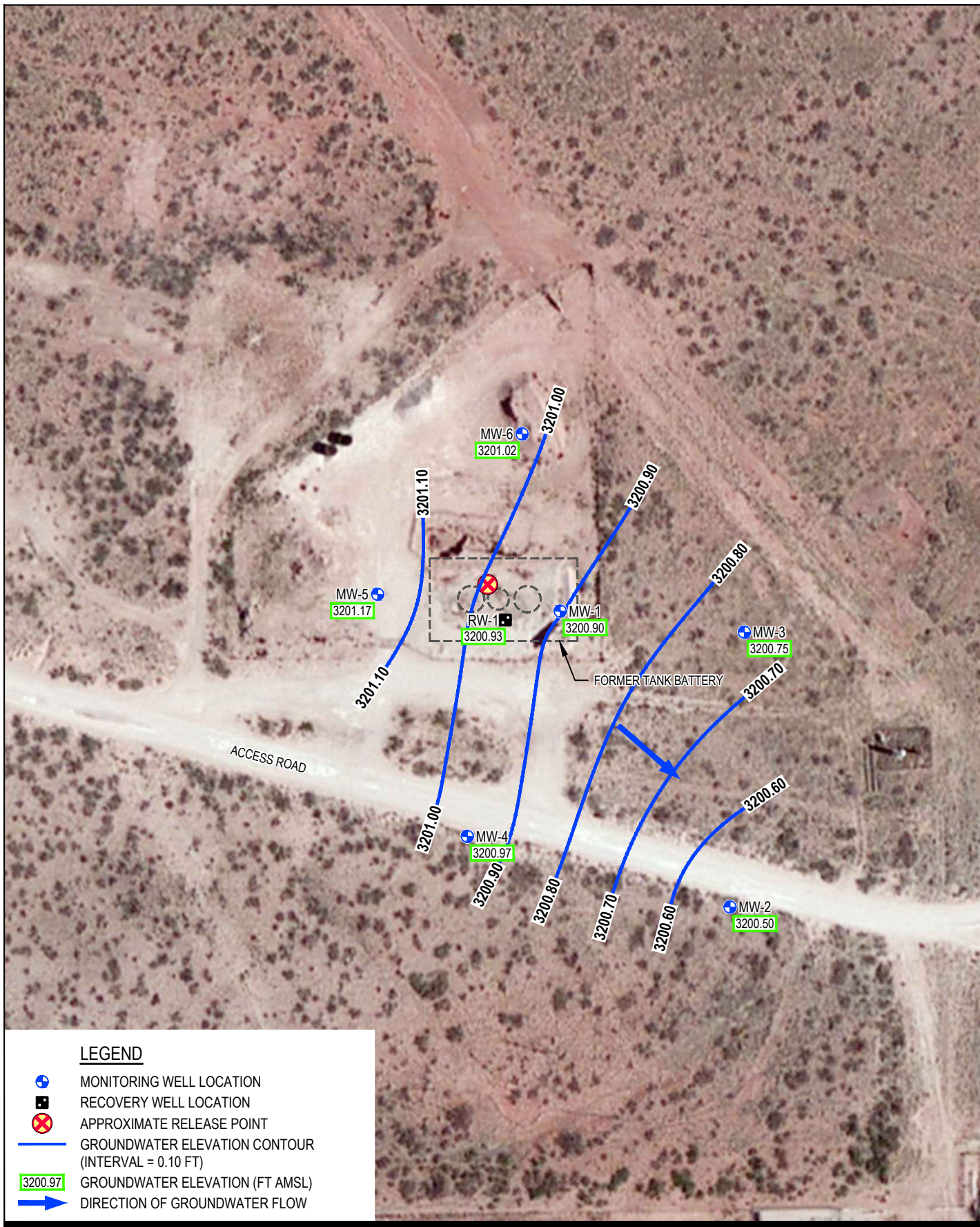


ET GATHERING & PROCESSING LLC
LEA COUNTY, NEW MEXICO
JAL NO. 4 FORMER TANK BATTERY
NMOCD 1RP-1457

**POTENTIOMETRIC SURFACE MAP
(MAY 2023)**

Project No. 12603939
Date December 2023

FIGURE 3

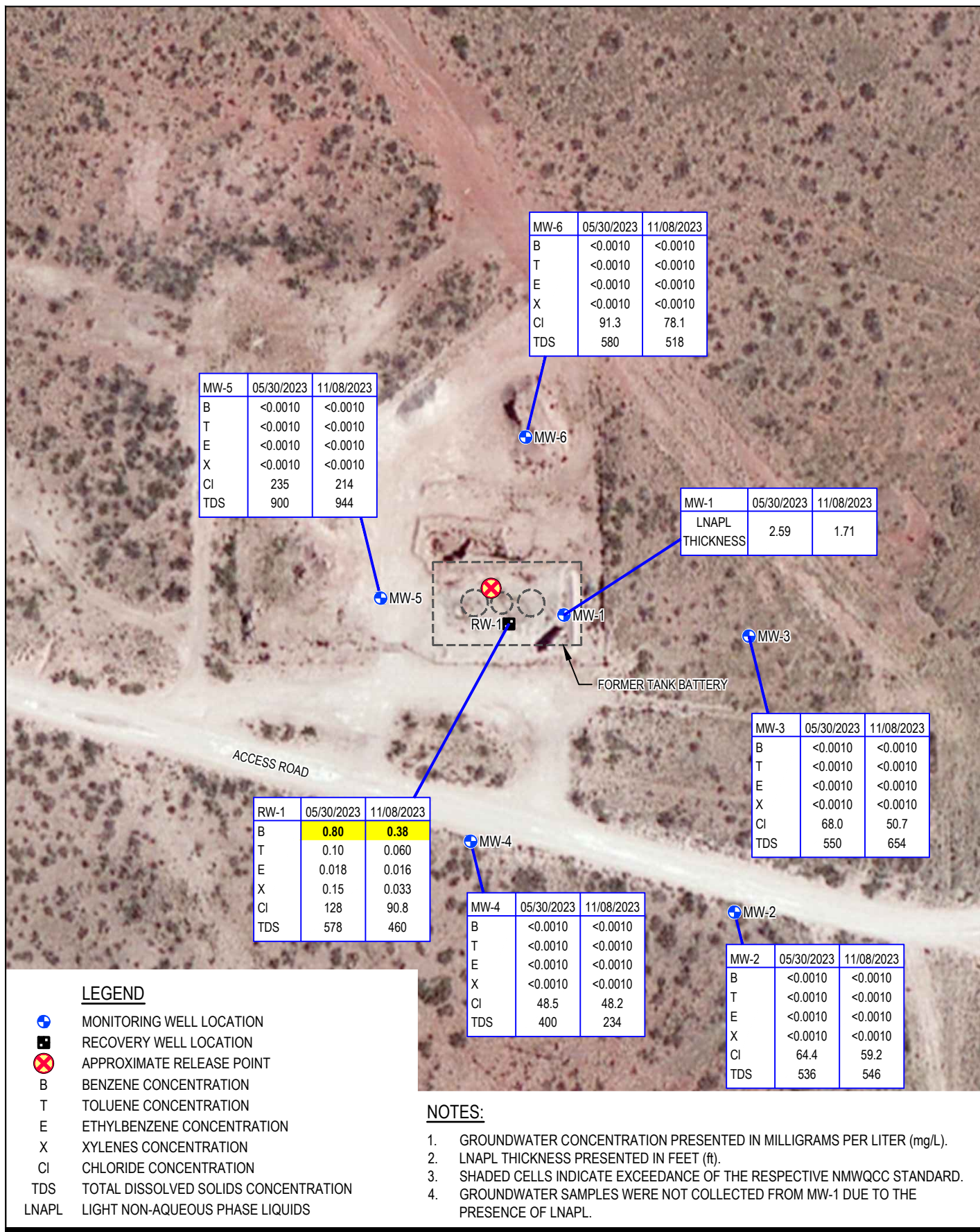


ET GATHERING & PROCESSING LLC
LEA COUNTY, NEW MEXICO
JAL NO. 4 FORMER TANK BATTERY
NMOCD 1RP-1457

**POTENTIOMETRIC SURFACE MAP
(NOVEMBER 2023)**

Project No. 12603939
Date December 2023

FIGURE 4



Appendices

Appendix A

Laboratory Analytical Reports



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

June 14, 2023

Blair Owen
GHD
11451 Katy Fwy
Suite 400
Houston, TX 77079

Work Order: **HS23060089**

Laboratory Results for: **12603939 - Jal No. 4**

Dear Blair Owen,

ALS Environmental received 8 sample(s) on Jun 01, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER

James Guin

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
Work Order: HS23060089

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23060089-01	12603939-TB-01	Water		30-May-2023 00:00	01-Jun-2023 09:40	☐
HS23060089-02	MW-3-20230530	Groundwater		30-May-2023 12:30	01-Jun-2023 09:40	☐
HS23060089-03	MW-2-20230530	Groundwater		30-May-2023 14:20	01-Jun-2023 09:40	☐
HS23060089-04	MW-4-20230530	Groundwater		30-May-2023 15:20	01-Jun-2023 09:40	☐
HS23060089-05	MW-5-20230530	Groundwater		30-May-2023 17:40	01-Jun-2023 09:40	☐
HS23060089-06	MW-6-20230530	Groundwater		30-May-2023 18:30	01-Jun-2023 09:40	☐
HS23060089-07	RW-1-20230530	Groundwater		30-May-2023 19:30	01-Jun-2023 09:40	☐
HS23060089-08	DUP01	Groundwater		30-May-2023 00:00	01-Jun-2023 09:40	☐

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
Work Order: HS23060089

CASE NARRATIVE**Work Order Comments**

- Due to an unexpected power outage in the area surrounding the laboratory, sample storage requirements were outside of temperature range for approximately 24 hours. As of 2:00 pm, Monday June 12th all temperatures have been verified within specification.

GCMS Volatiles by Method SW8260**Batch ID: R436988,R436993,R437000,R437175**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300**Batch ID: R437780****Sample ID: MW-2-20230530 (HS23060089-03MS)**

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Chloride)

Sample ID: MW-4-20230530 (HS23060089-04MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Chloride)

WetChemistry by Method M2540C**Batch ID: R437167,R437168**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 14-Jun-23

Client:GHD

Project:12603939 - Jal No. 4

Sample ID:12603939-TB-01

Collection Date:30-May-2023 00:00

ANALYTICAL REPORT

WorkOrder:HS23060089

Lab ID:HS23060089-01

Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: FT		
Benzene	U		0.0010	mg/L	1	03-Jun-2023 01:28
Ethylbenzene	U		0.0010	mg/L	1	03-Jun-2023 01:28
Toluene	U		0.0010	mg/L	1	03-Jun-2023 01:28
Xylenes, Total	U		0.0010	mg/L	1	03-Jun-2023 01:28
Surr: 1,2-Dichloroethane-d4	115		70-126	%REC	1	03-Jun-2023 01:28
Surr: 4-Bromofluorobenzene	98.1		77-113	%REC	1	03-Jun-2023 01:28
Surr: Dibromofluoromethane	104		77-123	%REC	1	03-Jun-2023 01:28
Surr: Toluene-d8	101		82-127	%REC	1	03-Jun-2023 01:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-3-20230530
Collection Date: 30-May-2023 12:30

ANALYTICAL REPORT

WorkOrder:HS23060089
Lab ID:HS23060089-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: FT		
Benzene	U		0.0010	mg/L	1	03-Jun-2023 04:16
Ethylbenzene	U		0.0010	mg/L	1	03-Jun-2023 04:16
Toluene	U		0.0010	mg/L	1	03-Jun-2023 04:16
Xylenes, Total	U		0.0010	mg/L	1	03-Jun-2023 04:16
Surr: 1,2-Dichloroethane-d4	111		70-126	%REC	1	03-Jun-2023 04:16
Surr: 4-Bromofluorobenzene	98.6		77-113	%REC	1	03-Jun-2023 04:16
Surr: Dibromofluoromethane	105		77-123	%REC	1	03-Jun-2023 04:16
Surr: Toluene-d8	102		82-127	%REC	1	03-Jun-2023 04:16
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	68.0		0.500	mg/L	1	13-Jun-2023 12:07
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	550		10.0	mg/L	1	05-Jun-2023 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-2-20230530
Collection Date: 30-May-2023 14:20

ANALYTICAL REPORT

WorkOrder:HS23060089
Lab ID:HS23060089-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	U		0.0010	mg/L	1	02-Jun-2023 19:09
Ethylbenzene	U		0.0010	mg/L	1	02-Jun-2023 19:09
Toluene	U		0.0010	mg/L	1	02-Jun-2023 19:09
Xylenes, Total	U		0.0010	mg/L	1	02-Jun-2023 19:09
Surr: 1,2-Dichloroethane-d4	97.4		70-126	%REC	1	02-Jun-2023 19:09
Surr: 4-Bromofluorobenzene	95.3		77-113	%REC	1	02-Jun-2023 19:09
Surr: Dibromofluoromethane	98.1		77-123	%REC	1	02-Jun-2023 19:09
Surr: Toluene-d8	97.9		82-127	%REC	1	02-Jun-2023 19:09
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	64.4		0.500	mg/L	1	13-Jun-2023 12:13
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	536		10.0	mg/L	1	05-Jun-2023 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-Jun-23

Client:GHD

Project:12603939 - Jal No. 4

Sample ID:MW-4-20230530

Collection Date:30-May-2023 15:20

ANALYTICAL REPORT

WorkOrder:HS23060089

Lab ID:HS23060089-04

Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	U		0.0010	mg/L	1	02-Jun-2023 19:30
Ethylbenzene	U		0.0010	mg/L	1	02-Jun-2023 19:30
Toluene	U		0.0010	mg/L	1	02-Jun-2023 19:30
Xylenes, Total	U		0.0010	mg/L	1	02-Jun-2023 19:30
Surr: 1,2-Dichloroethane-d4	99.0		70-126	%REC	1	02-Jun-2023 19:30
Surr: 4-Bromofluorobenzene	95.1		77-113	%REC	1	02-Jun-2023 19:30
Surr: Dibromofluoromethane	98.4		77-123	%REC	1	02-Jun-2023 19:30
Surr: Toluene-d8	97.7		82-127	%REC	1	02-Jun-2023 19:30
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	48.5		0.500	mg/L	1	13-Jun-2023 12:30
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	400		10.0	mg/L	1	05-Jun-2023 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-5-20230530
Collection Date: 30-May-2023 17:40

ANALYTICAL REPORT

WorkOrder:HS23060089
Lab ID:HS23060089-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	U		0.0010	mg/L	1	02-Jun-2023 19:52
Ethylbenzene	U		0.0010	mg/L	1	02-Jun-2023 19:52
Toluene	U		0.0010	mg/L	1	02-Jun-2023 19:52
Xylenes, Total	U		0.0010	mg/L	1	02-Jun-2023 19:52
Surr: 1,2-Dichloroethane-d4	97.9		70-126	%REC	1	02-Jun-2023 19:52
Surr: 4-Bromofluorobenzene	95.5		77-113	%REC	1	02-Jun-2023 19:52
Surr: Dibromofluoromethane	98.0		77-123	%REC	1	02-Jun-2023 19:52
Surr: Toluene-d8	97.1		82-127	%REC	1	02-Jun-2023 19:52
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	235		5.00	mg/L	10	13-Jun-2023 13:11
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	900		10.0	mg/L	1	05-Jun-2023 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-6-20230530
Collection Date: 30-May-2023 18:30

ANALYTICAL REPORT

WorkOrder:HS23060089
Lab ID:HS23060089-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	U		0.0010	mg/L	1	03-Jun-2023 18:56
Ethylbenzene	U		0.0010	mg/L	1	03-Jun-2023 18:56
Toluene	U		0.0010	mg/L	1	03-Jun-2023 18:56
Xylenes, Total	U		0.0010	mg/L	1	03-Jun-2023 18:56
Surr: 1,2-Dichloroethane-d4	104		70-126	%REC	1	03-Jun-2023 18:56
Surr: 4-Bromofluorobenzene	102		77-113	%REC	1	03-Jun-2023 18:56
Surr: Dibromofluoromethane	102		77-123	%REC	1	03-Jun-2023 18:56
Surr: Toluene-d8	95.5		82-127	%REC	1	03-Jun-2023 18:56
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	91.3		1.00	mg/L	2	13-Jun-2023 13:16
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	580		10.0	mg/L	1	05-Jun-2023 13:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-Jun-23

Client: GHD
 Project: 12603939 - Jal No. 4
 Sample ID: RW-1-20230530
 Collection Date: 30-May-2023 19:30

ANALYTICAL REPORT

WorkOrder:HS23060089
 Lab ID:HS23060089-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	0.80		0.010	mg/L	10	06-Jun-2023 18:00
Ethylbenzene	0.018		0.0010	mg/L	1	03-Jun-2023 19:19
Toluene	0.100		0.0010	mg/L	1	03-Jun-2023 19:19
Xylenes, Total	0.15		0.0010	mg/L	1	03-Jun-2023 19:19
Surr: 1,2-Dichloroethane-d4	92.2		70-126	%REC	1	03-Jun-2023 19:19
Surr: 1,2-Dichloroethane-d4	97.4		70-126	%REC	10	06-Jun-2023 18:00
Surr: 4-Bromofluorobenzene	102		77-113	%REC	1	03-Jun-2023 19:19
Surr: 4-Bromofluorobenzene	95.3		77-113	%REC	10	06-Jun-2023 18:00
Surr: Dibromofluoromethane	86.6		77-123	%REC	1	03-Jun-2023 19:19
Surr: Dibromofluoromethane	94.5		77-123	%REC	10	06-Jun-2023 18:00
Surr: Toluene-d8	103		82-127	%REC	1	03-Jun-2023 19:19
Surr: Toluene-d8	98.2		82-127	%REC	10	06-Jun-2023 18:00
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	128		1.00	mg/L	2	13-Jun-2023 13:22
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	578		10.0	mg/L	1	05-Jun-2023 13:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: DUP01
Collection Date: 30-May-2023 00:00

ANALYTICAL REPORT

WorkOrder:HS23060089
Lab ID:HS23060089-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	U		0.0010	mg/L	1	03-Jun-2023 19:42
Ethylbenzene	U		0.0010	mg/L	1	03-Jun-2023 19:42
Toluene	U		0.0010	mg/L	1	03-Jun-2023 19:42
Xylenes, Total	U		0.0010	mg/L	1	03-Jun-2023 19:42
Surr: 1,2-Dichloroethane-d4	108		70-126	%REC	1	03-Jun-2023 19:42
Surr: 4-Bromofluorobenzene	102		77-113	%REC	1	03-Jun-2023 19:42
Surr: Dibromofluoromethane	103		77-123	%REC	1	03-Jun-2023 19:42
Surr: Toluene-d8	96.3		82-127	%REC	1	03-Jun-2023 19:42
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	48.5		1.00	mg/L	2	13-Jun-2023 13:28
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	410		10.0	mg/L	1	05-Jun-2023 13:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R436988 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS23060089-03	MW-2-20230530	30 May 2023 14:20			02 Jun 2023 19:09	1
HS23060089-04	MW-4-20230530	30 May 2023 15:20			02 Jun 2023 19:30	1
HS23060089-05	MW-5-20230530	30 May 2023 17:40			02 Jun 2023 19:52	1
Batch ID: R436993 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS23060089-06	MW-6-20230530	30 May 2023 18:30			03 Jun 2023 18:56	1
HS23060089-07	RW-1-20230530	30 May 2023 19:30			03 Jun 2023 19:19	1
HS23060089-08	DUP01	30 May 2023 00:00			03 Jun 2023 19:42	1
Batch ID: R437000 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS23060089-02	MW-3-20230530	30 May 2023 12:30			03 Jun 2023 04:16	1
Batch ID: R437000 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS23060089-01	12603939-TB-01	30 May 2023 00:00			03 Jun 2023 01:28	1
Batch ID: R437167 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Groundwater	
HS23060089-02	MW-3-20230530	30 May 2023 12:30			05 Jun 2023 13:31	1
HS23060089-03	MW-2-20230530	30 May 2023 14:20			05 Jun 2023 13:31	1
HS23060089-04	MW-4-20230530	30 May 2023 15:20			05 Jun 2023 13:31	1
HS23060089-05	MW-5-20230530	30 May 2023 17:40			05 Jun 2023 13:31	1
Batch ID: R437168 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Groundwater	
HS23060089-06	MW-6-20230530	30 May 2023 18:30			05 Jun 2023 13:34	1
HS23060089-07	RW-1-20230530	30 May 2023 19:30			05 Jun 2023 13:34	1
HS23060089-08	DUP01	30 May 2023 00:00			05 Jun 2023 13:34	1
Batch ID: R437175 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS23060089-07	RW-1-20230530	30 May 2023 19:30			06 Jun 2023 18:00	10
Batch ID: R437780 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Groundwater	
HS23060089-02	MW-3-20230530	30 May 2023 12:30			13 Jun 2023 12:07	1
HS23060089-03	MW-2-20230530	30 May 2023 14:20			13 Jun 2023 12:13	1
HS23060089-04	MW-4-20230530	30 May 2023 15:20			13 Jun 2023 12:30	1
HS23060089-05	MW-5-20230530	30 May 2023 17:40			13 Jun 2023 13:11	10
HS23060089-06	MW-6-20230530	30 May 2023 18:30			13 Jun 2023 13:16	2
HS23060089-07	RW-1-20230530	30 May 2023 19:30			13 Jun 2023 13:22	2
HS23060089-08	DUP01	30 May 2023 00:00			13 Jun 2023 13:28	2

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R436988 (0)		Instrument: VOA7		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-230602	Units: ug/L		Analysis Date: 02-Jun-2023 11:39					
Client ID:	Run ID: VOA7_436988	SeqNo: 7340287		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	1.0							
Ethylbenzene	U	1.0							
Toluene	U	1.0							
Xylenes, Total	U	1.0							
Surr: 1,2-Dichloroethane-d4	48.84	1.0	50	0	97.7	70 - 123			
Surr: 4-Bromofluorobenzene	47.32	1.0	50	0	94.6	77 - 113			
Surr: Dibromofluoromethane	48.73	1.0	50	0	97.5	73 - 126			
Surr: Toluene-d8	48.79	1.0	50	0	97.6	81 - 120			

LCS	Sample ID: VLCSW-230602	Units: ug/L		Analysis Date: 02-Jun-2023 10:56					
Client ID:	Run ID: VOA7_436988	SeqNo: 7340285		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	17.69	1.0	20	0	88.4	74 - 120			
Ethylbenzene	18.51	1.0	20	0	92.6	77 - 117			
Toluene	17.8	1.0	20	0	89.0	77 - 118			
Xylenes, Total	54.35	1.0	60	0	90.6	75 - 122			
Surr: 1,2-Dichloroethane-d4	50.16	1.0	50	0	100	70 - 123			
Surr: 4-Bromofluorobenzene	49.13	1.0	50	0	98.3	77 - 113			
Surr: Dibromofluoromethane	48.81	1.0	50	0	97.6	73 - 126			
Surr: Toluene-d8	48.58	1.0	50	0	97.2	81 - 120			

MS	Sample ID: HS23060094-04MS	Units: ug/L		Analysis Date: 02-Jun-2023 14:52					
Client ID:	Run ID: VOA7_436988	SeqNo: 7340296		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	17.28	1.0	20	0	86.4	70 - 127			
Ethylbenzene	18.13	1.0	20	0	90.6	70 - 124			
Toluene	17.69	1.0	20	0	88.5	70 - 123			
Xylenes, Total	54.25	1.0	60	0	90.4	70 - 130			
Surr: 1,2-Dichloroethane-d4	50.48	1.0	50	0	101	70 - 126			
Surr: 4-Bromofluorobenzene	47.82	1.0	50	0	95.6	77 - 113			
Surr: Dibromofluoromethane	48.88	1.0	50	0	97.8	77 - 123			
Surr: Toluene-d8	48.68	1.0	50	0	97.4	82 - 127			

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R436988 (0)		Instrument: VOA7		Method: LOW LEVEL VOLATILES BY SW8260C						
MSD		Sample ID: HS23060094-04MSD		Units: ug/L		Analysis Date: 02-Jun-2023 15:13				
Client ID:		Run ID: VOA7_436988		SeqNo: 7340297		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.56	1.0	20	0	82.8	70 - 127	17.28	4.26	20	
Ethylbenzene	17.48	1.0	20	0	87.4	70 - 124	18.13	3.62	20	
Toluene	17.06	1.0	20	0	85.3	70 - 123	17.69	3.64	20	
Xylenes, Total	52.36	1.0	60	0	87.3	70 - 130	54.25	3.55	20	
Surr: 1,2-Dichloroethane-d4	49.38	1.0	50	0	98.8	70 - 126	50.48	2.19	20	
Surr: 4-Bromofluorobenzene	49.27	1.0	50	0	98.5	77 - 113	47.82	2.97	20	
Surr: Dibromofluoromethane	49.03	1.0	50	0	98.1	77 - 123	48.88	0.307	20	
Surr: Toluene-d8	48.88	1.0	50	0	97.8	82 - 127	48.68	0.401	20	
The following samples were analyzed in this batch:										
HS23060089-03 HS23060089-04 HS23060089-05										

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R436993 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-230603	Units: ug/L		Analysis Date: 03-Jun-2023 11:20					
Client ID:	Run ID: VOA4_436993	SeqNo: 7340462		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	U	1.0							
Ethylbenzene	U	1.0							
Toluene	U	1.0							
Xylenes, Total	U	1.0							
Surr: 1,2-Dichloroethane-d4	55.29	1.0	50	0	111	70 - 123			
Surr: 4-Bromofluorobenzene	50.43	1.0	50	0	101	77 - 113			
Surr: Dibromofluoromethane	53.68	1.0	50	0	107	73 - 126			
Surr: Toluene-d8	47.49	1.0	50	0	95.0	81 - 120			

LCS	Sample ID: VLCSW-230603	Units: ug/L		Analysis Date: 03-Jun-2023 10:34					
Client ID:	Run ID: VOA4_436993	SeqNo: 7340460		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	18.7	1.0	20	0	93.5	74 - 120			
Ethylbenzene	20.03	1.0	20	0	100	77 - 117			
Toluene	18.49	1.0	20	0	92.5	77 - 118			
Xylenes, Total	58.83	1.0	60	0	98.0	75 - 122			
Surr: 1,2-Dichloroethane-d4	48.58	1.0	50	0	97.2	70 - 123			
Surr: 4-Bromofluorobenzene	51.56	1.0	50	0	103	77 - 113			
Surr: Dibromofluoromethane	46.9	1.0	50	0	93.8	73 - 126			
Surr: Toluene-d8	50.31	1.0	50	0	101	81 - 120			

MS	Sample ID: HS23060143-01MS	Units: ug/L		Analysis Date: 03-Jun-2023 13:37					
Client ID:	Run ID: VOA4_436993	SeqNo: 7340468		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	17.21	1.0	20	0	86.0	70 - 127			
Ethylbenzene	18.04	1.0	20	0	90.2	70 - 124			
Toluene	16.75	1.0	20	0	83.7	70 - 123			
Xylenes, Total	53.7	1.0	60	0	89.5	70 - 130			
Surr: 1,2-Dichloroethane-d4	48.3	1.0	50	0	96.6	70 - 126			
Surr: 4-Bromofluorobenzene	50.43	1.0	50	0	101	77 - 113			
Surr: Dibromofluoromethane	46.25	1.0	50	0	92.5	77 - 123			
Surr: Toluene-d8	50.01	1.0	50	0	100	82 - 127			

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R436993 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C						
MSD	Sample ID: HS23060143-01MSD	Units: ug/L		Analysis Date: 03-Jun-2023 14:00						
Client ID:	Run ID: VOA4_436993		SeqNo: 7340469		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.97	1.0	20	0	89.9	70 - 127	17.21	4.35	20	
Ethylbenzene	18.14	1.0	20	0	90.7	70 - 124	18.04	0.548	20	
Toluene	16.62	1.0	20	0	83.1	70 - 123	16.75	0.807	20	
Xylenes, Total	54.26	1.0	60	0	90.4	70 - 130	53.7	1.03	20	
Surr: 1,2-Dichloroethane-d4	50.46	1.0	50	0	101	70 - 126	48.3	4.36	20	
Surr: 4-Bromofluorobenzene	51.84	1.0	50	0	104	77 - 113	50.43	2.76	20	
Surr: Dibromofluoromethane	48.84	1.0	50	0	97.7	77 - 123	46.25	5.44	20	
Surr: Toluene-d8	49.14	1.0	50	0	98.3	82 - 127	50.01	1.76	20	
The following samples were analyzed in this batch:										
HS23060089-06 HS23060089-07 HS23060089-08										

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R437000 (0)		Instrument: VOA11		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-230602	Units: ug/L		Analysis Date: 03-Jun-2023 00:25					
Client ID:	Run ID: VOA11_437000	SeqNo: 7340699		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	U	1.0							
Ethylbenzene	U	1.0							
Toluene	U	1.0							
Xylenes, Total	U	1.0							
Surr: 1,2-Dichloroethane-d4	54.5	1.0	50	0	109	70 - 123			
Surr: 4-Bromofluorobenzene	48.35	1.0	50	0	96.7	77 - 113			
Surr: Dibromofluoromethane	51.26	1.0	50	0	103	73 - 126			
Surr: Toluene-d8	50.72	1.0	50	0	101	81 - 120			

LCS	Sample ID: VLCSW-230602	Units: ug/L		Analysis Date: 02-Jun-2023 23:43					
Client ID:	Run ID: VOA11_437000	SeqNo: 7340698		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	17.99	1.0	20	0	90.0	74 - 120			
Ethylbenzene	16.93	1.0	20	0	84.7	77 - 117			
Toluene	18	1.0	20	0	90.0	77 - 118			
Xylenes, Total	53.95	1.0	60	0	89.9	75 - 122			
Surr: 1,2-Dichloroethane-d4	55.7	1.0	50	0	111	70 - 123			
Surr: 4-Bromofluorobenzene	50.68	1.0	50	0	101	77 - 113			
Surr: Dibromofluoromethane	51.47	1.0	50	0	103	73 - 126			
Surr: Toluene-d8	50.47	1.0	50	0	101	81 - 120			

MS	Sample ID: HS23060087-02MS	Units: ug/L		Analysis Date: 03-Jun-2023 02:10					
Client ID:	Run ID: VOA11_437000	SeqNo: 7340704		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	20.14	1.0	20	0	101	70 - 127			
Ethylbenzene	18.69	1.0	20	0	93.4	70 - 124			
Toluene	19.34	1.0	20	0	96.7	70 - 123			
Xylenes, Total	59.96	1.0	60	0	99.9	70 - 130			
Surr: 1,2-Dichloroethane-d4	54.47	1.0	50	0	109	70 - 126			
Surr: 4-Bromofluorobenzene	48.95	1.0	50	0	97.9	77 - 113			
Surr: Dibromofluoromethane	52.59	1.0	50	0	105	77 - 123			
Surr: Toluene-d8	50.01	1.0	50	0	100	82 - 127			

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R437000 (0) Instrument: VOA11 Method: LOW LEVEL VOLATILES BY SW8260C

MSD	Sample ID: HS23060087-02MSD	Units: ug/L			Analysis Date: 03-Jun-2023 02:31				
Client ID:	Run ID: VOA11_437000			SeqNo: 7340705		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	19.07	1.0	20	0	95.4	70 - 127	20.14	5.46	20
Ethylbenzene	18.73	1.0	20	0	93.7	70 - 124	18.69	0.254	20
Toluene	18.67	1.0	20	0	93.4	70 - 123	19.34	3.51	20
Xylenes, Total	57.61	1.0	60	0	96.0	70 - 130	59.96	4	20
Surr: 1,2-Dichloroethane-d4	53.09	1.0	50	0	106	70 - 126	54.47	2.57	20
Surr: 4-Bromofluorobenzene	50.5	1.0	50	0	101	77 - 113	48.95	3.11	20
Surr: Dibromofluoromethane	49.93	1.0	50	0	99.9	77 - 123	52.59	5.2	20
Surr: Toluene-d8	50.66	1.0	50	0	101	82 - 127	50.01	1.3	20

The following samples were analyzed in this batch: HS23060089-01 HS23060089-02

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R437175 (0)		Instrument: VOA7		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-230606	Units: ug/L		Analysis Date: 06-Jun-2023 10:27					
Client ID:	Run ID: VOA7_437175	SeqNo: 7344743		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	1.0							
Surr: 1,2-Dichloroethane-d4	48.78	1.0	50	0	97.6	70 - 123			
Surr: 4-Bromofluorobenzene	47.31	1.0	50	0	94.6	77 - 113			
Surr: Dibromofluoromethane	48.34	1.0	50	0	96.7	73 - 126			
Surr: Toluene-d8	48.74	1.0	50	0	97.5	81 - 120			

LCS	Sample ID: VLCSW-230606	Units: ug/L		Analysis Date: 06-Jun-2023 09:45					
Client ID:	Run ID: VOA7_437175	SeqNo: 7344741		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	17.91	1.0	20	0	89.6	74 - 120			
Surr: 1,2-Dichloroethane-d4	50.26	1.0	50	0	101	70 - 123			
Surr: 4-Bromofluorobenzene	48.97	1.0	50	0	97.9	77 - 113			
Surr: Dibromofluoromethane	49.52	1.0	50	0	99.0	73 - 126			
Surr: Toluene-d8	48.81	1.0	50	0	97.6	81 - 120			

MS	Sample ID: HS23060153-03MS	Units: ug/L		Analysis Date: 06-Jun-2023 11:35					
Client ID:	Run ID: VOA7_437175	SeqNo: 7344746		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	15.65	1.0	20	0	78.3	70 - 127			
Surr: 1,2-Dichloroethane-d4	48.39	1.0	50	0	96.8	70 - 126			
Surr: 4-Bromofluorobenzene	47.52	1.0	50	0	95.0	77 - 113			
Surr: Dibromofluoromethane	48.83	1.0	50	0	97.7	77 - 123			
Surr: Toluene-d8	48.36	1.0	50	0	96.7	82 - 127			

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R437175 (0)		Instrument: VOA7		Method: LOW LEVEL VOLATILES BY SW8260C					
MSD	Sample ID: HS23060153-03MSD	Units: ug/L		Analysis Date: 06-Jun-2023 11:56					
Client ID:	Run ID: VOA7_437175		SeqNo: 7344747		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	15.11	1.0	20	0	75.6	70 - 127	15.65	3.49	20
Surr: 1,2-Dichloroethane-d4	49.35	1.0	50	0	98.7	70 - 126	48.39	1.96	20
Surr: 4-Bromofluorobenzene	48.24	1.0	50	0	96.5	77 - 113	47.52	1.51	20
Surr: Dibromofluoromethane	48.41	1.0	50	0	96.8	77 - 123	48.83	0.866	20
Surr: Toluene-d8	48.61	1.0	50	0	97.2	82 - 127	48.36	0.513	20
The following samples were analyzed in this batch: HS23060089-07									

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R437167 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WBLK-06052023	Units: mg/L		Analysis Date: 05-Jun-2023 13:31						
Client ID:	Run ID: Balance1_437167	SeqNo: 7344504		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0							
LCS	Sample ID: LCS-06052023	Units: mg/L		Analysis Date: 05-Jun-2023 13:31						
Client ID:	Run ID: Balance1_437167	SeqNo: 7344503		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		1082	10.0	1000	0	108	85 - 115			
DUP	Sample ID: HS23060089-04DUP	Units: mg/L		Analysis Date: 05-Jun-2023 13:31						
Client ID: MW-4-20230530	Run ID: Balance1_437167	SeqNo: 7344501		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		402	10.0				400	0.499	20	
DUP	Sample ID: HS23052050-01DUP	Units: mg/L		Analysis Date: 05-Jun-2023 13:31						
Client ID:	Run ID: Balance1_437167	SeqNo: 7344490		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		976	10.0				980	0.409	20	
The following samples were analyzed in this batch:		HS23060089-02		HS23060089-03		HS23060089-04		HS23060089-05		

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R437168 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WBLK-02012023	Units: mg/L		Analysis Date: 05-Jun-2023 13:34						
Client ID:	Run ID: Balance1_437168	SeqNo: 7344551		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0							
LCS	Sample ID: LCS-02012023	Units: mg/L		Analysis Date: 05-Jun-2023 13:34						
Client ID:	Run ID: Balance1_437168	SeqNo: 7344550		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		1090	10.0	1000	0	109	85 - 115			
DUP	Sample ID: HS23060089-07DUP	Units: mg/L		Analysis Date: 05-Jun-2023 13:34						
Client ID: RW-1-20230530	Run ID: Balance1_437168	SeqNo: 7344540		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		580	10.0				578	0.345	20	
DUP	Sample ID: HS23052052-02DUP	Units: mg/L		Analysis Date: 05-Jun-2023 13:34						
Client ID:	Run ID: Balance1_437168	SeqNo: 7344535		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		1368	10.0				1364	0.293	20	
The following samples were analyzed in this batch:		HS23060089-06		HS23060089-07		HS23060089-08				

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

QC BATCH REPORT

Batch ID: R437780 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK		Sample ID: MBLK		Units: mg/L		Analysis Date: 13-Jun-2023 11:17				
Client ID:		Run ID: ICS-Integrion_437780		SeqNo: 7360257		PrepDate:		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride		U	0.500							
LCS		Sample ID: LCS		Units: mg/L		Analysis Date: 13-Jun-2023 11:23				
Client ID:		Run ID: ICS-Integrion_437780		SeqNo: 7360258		PrepDate:		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride		21.2	0.500	20	0	106	90 - 110			
MS		Sample ID: HS23060089-04MS		Units: mg/L		Analysis Date: 13-Jun-2023 12:36				
Client ID: MW-4-20230530		Run ID: ICS-Integrion_437780		SeqNo: 7360265		PrepDate:		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride		56.41	0.500	10	48.48	79.3	80 - 120			SO
MS		Sample ID: HS23060089-03MS		Units: mg/L		Analysis Date: 13-Jun-2023 12:18				
Client ID: MW-2-20230530		Run ID: ICS-Integrion_437780		SeqNo: 7360262		PrepDate:		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride		71.39	0.500	10	64.37	70.2	80 - 120			SO
MSD		Sample ID: HS23060089-04MSD		Units: mg/L		Analysis Date: 13-Jun-2023 12:42				
Client ID: MW-4-20230530		Run ID: ICS-Integrion_437780		SeqNo: 7360266		PrepDate:		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride		56.34	0.500	10	48.48	78.5	80 - 120	56.41	0.133	20 SO
MSD		Sample ID: HS23060089-03MSD		Units: mg/L		Analysis Date: 13-Jun-2023 12:24				
Client ID: MW-2-20230530		Run ID: ICS-Integrion_437780		SeqNo: 7360263		PrepDate:		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride		70.92	0.500	10	64.37	65.5	80 - 120	71.39	0.658	20 SO
The following samples were analyzed in this batch:										
		HS23060089-02		HS23060089-03		HS23060089-04		HS23060089-05		
		HS23060089-06		HS23060089-07		HS23060089-08				

ALS Houston, US

Date: 14-Jun-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23060089

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US

Date: 14-Jun-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-37	30-Jun-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US

Date: 14-Jun-23

Sample Receipt Checklist

Work Order ID: HS23060089

Date/Time Received: 01-Jun-2023 09:40

Client Name: GHDHouston

Received by: Malcolm Burleson

Completed By: /S/ Niles D. Ranchod

01-Jun-2023 17:53

Reviewed by:

eSignature

Date/Time

eSignature

Date/Time

Matrices: WaterCarrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒No ☐Not Present ☐

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

VOA/TX1005/TX1006 Solids in hermetically sealed vials?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

1 Page(s)

Chain of custody signed when relinquished and received?

Yes ☒No ☐

COC IDs:241359

Samplers name present on COC?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

1.7C/1.6C UC/C

IR 31

Cooler(s)/Kit(s):

47608

Date/Time sample(s) sent to storage:

06/01/2023 18:00

Water - VOA vials have zero headspace?

Yes ☒No ☐No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐No ☐N/A ☒

pH adjusted?

Yes ☐No ☐N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

Page ____ of ____

COC ID: 241359

HS23060089

GHD

12603939 - Jal No. 4



Customer Information		Project Information		ALS Project Manager:	
Purchase Order	E-19001-GL-21300132 Stacy Boul	Project Name	12603939 - Jal No. 4	A	8260_LL_W (8260 BTEX) [3xVOA HCl]
Work Order		Project Number	12603939	B	TDS_W 2540C (2540C TDS) [250ml P Neat-share]
Company Name	GHD	Bill To Company	Energy Transfer	C	300_W (300 Cl) [250ml P Neat-share]
Send Report To	Blair Owen	Invoice Attn	Stacy Boultinghouse	D	TB 8260_LL_W (8260 BTEX) [3xVOA HCl]
Address	11451 Katy Fwy Suite 400	Address	P.O Box 132400	E	
				F	
City/State/Zip	Houston, TX 77079	City/State/Zip	Dallas TX 75313	G	
Phone	(713) 734-3090	Phone		H	
Fax	(713) 734-3391	Fax		I	
E-Mail Address	blair.owen@ghd.com	e-Mail Address	Stacy.Boultinghouse@energytransfer.com		

Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
12603939-TB01-	5/30/23	1276	Water	1.8	2				X							
MW-3-20230570	5/30/23	1420 128	GW	1.8	5	X	X	X								
MW-2-20230530	5/10/23	1520 128	GW	1.8	5	X	X	X								
MW-4-20230530	5/10/23	1740 128	GW	1.8	5	X	X	X								
MW-5-20230530	5/30/23	1830 1790	GW	1.8	5	X	X	X								
MW-6-20230530	5/30/23	1830	GW	1.8	5	X	X	X								
RW-1-20230530	5/30/23	1930	SW	1.8	5	X	X	X								
DUP 1																

Sampler(s) Please Print & Sign <i>Simon K. K. K.</i>		Shipment Method	Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:
Inquired by: <i>Simon K. K. K.</i>	Date: 5/30/23 Time: 1000	Received by:	Notes: ETC Jal No. 4 Lea County NM		
Inquired by (Laboratory):	Date:	Received by (Laboratory): <i>06012023 0940</i>	Cooler ID 47608	Cooler Temp. 12.31 1.7W 0.16	QC Package: (Check One Box Below) ☒ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Raw Date ☐ TRRP Level IV ☐ Level IV SW846/CLP
Issued by (Laboratory):	Date:	Checked by (Laboratory):	Other		

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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CUSTODY SEAL		Seal Broken By:
Date: 6/16/23	Time: 0900	Date:
Name: [Signature]		
Company: [Signature]		





10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

November 21, 2023

Blair Owen
GHD
11451 Katy Fwy
Suite 400
Houston, TX 77079

Work Order: **HS23110663**

Laboratory Results for: **12603939 - Jal No. 4**

Dear Blair Owen,

ALS Environmental received 8 sample(s) on Nov 09, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
James Guin

ALS Houston, US

Date: 21-Nov-23

Client: GHD

Project: 12603939 - Jal No. 4

Work Order: HS23110663

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23110663-01	12603939-TB-01	Water		08-Nov-2023 00:00	09-Nov-2023 09:40	☐
HS23110663-02	MW-2-20231108	Groundwater		08-Nov-2023 09:40	09-Nov-2023 09:40	☐
HS23110663-03	MW-3-20231108	Groundwater		08-Nov-2023 11:00	09-Nov-2023 09:40	☐
HS23110663-04	MW-4-20231108	Groundwater		08-Nov-2023 12:00	09-Nov-2023 09:40	☐
HS23110663-05	MW-5-20231108	Groundwater		08-Nov-2023 12:45	09-Nov-2023 09:40	☐
HS23110663-06	MW-6-20231108	Groundwater		08-Nov-2023 14:00	09-Nov-2023 09:40	☐
HS23110663-07	RW-1-20231108	Groundwater		08-Nov-2023 15:10	09-Nov-2023 09:40	☐
HS23110663-08	DUP-01	Groundwater		08-Nov-2023 00:00	09-Nov-2023 09:40	☐

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
Work Order: HS23110663

CASE NARRATIVE

GCMS Volatiles by Method SW8260**Batch ID: R451750****Sample ID: HS23110794-10MS**

- MS/MSD was performed on an unrelated sample.

Batch ID: R451584

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R451544

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R451840**Sample ID: HS23110788-02MS**

- MS/MSD was performed on an unrelated sample.

WetChemistry by Method E300**Batch ID: R452331**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C**Batch ID: R451721,R451862**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

ALS Houston, US

Date: 21-Nov-23

Client:GHD

Project:12603939 - Jal No. 4

Sample ID:12603939-TB-01

Collection Date:08-Nov-2023 00:00

ANALYTICAL REPORT

WorkOrder:HS23110663

Lab ID:HS23110663-01

Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	U		0.0010	mg/L	1	14-Nov-2023 18:16
Ethylbenzene	U		0.0010	mg/L	1	14-Nov-2023 18:16
Toluene	U		0.0010	mg/L	1	14-Nov-2023 18:16
Xylenes, Total	U		0.0010	mg/L	1	14-Nov-2023 18:16
Surr: 1,2-Dichloroethane-d4	106		70-126	%REC	1	14-Nov-2023 18:16
Surr: 4-Bromofluorobenzene	96.1		77-113	%REC	1	14-Nov-2023 18:16
Surr: Dibromofluoromethane	117		77-123	%REC	1	14-Nov-2023 18:16
Surr: Toluene-d8	88.3		82-127	%REC	1	14-Nov-2023 18:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-2-20231108
Collection Date: 08-Nov-2023 09:40

ANALYTICAL REPORT

WorkOrder:HS23110663
Lab ID:HS23110663-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: FT		
Benzene	U		0.0010	mg/L	1	11-Nov-2023 03:39
Ethylbenzene	U		0.0010	mg/L	1	11-Nov-2023 03:39
Toluene	U		0.0010	mg/L	1	11-Nov-2023 03:39
Xylenes, Total	U		0.0010	mg/L	1	11-Nov-2023 03:39
Surr: 1,2-Dichloroethane-d4	94.8		70-126	%REC	1	11-Nov-2023 03:39
Surr: 4-Bromofluorobenzene	95.9		77-113	%REC	1	11-Nov-2023 03:39
Surr: Dibromofluoromethane	91.9		77-123	%REC	1	11-Nov-2023 03:39
Surr: Toluene-d8	98.1		82-127	%REC	1	11-Nov-2023 03:39
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	59.2		0.500	mg/L	1	20-Nov-2023 12:01
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	546		10.0	mg/L	1	13-Nov-2023 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-3-20231108
Collection Date: 08-Nov-2023 11:00

ANALYTICAL REPORT

WorkOrder:HS23110663
Lab ID:HS23110663-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: FT		
Benzene	U		0.0010	mg/L	1	11-Nov-2023 04:00
Ethylbenzene	U		0.0010	mg/L	1	11-Nov-2023 04:00
Toluene	U		0.0010	mg/L	1	11-Nov-2023 04:00
Xylenes, Total	U		0.0010	mg/L	1	11-Nov-2023 04:00
Surr: 1,2-Dichloroethane-d4	97.1		70-126	%REC	1	11-Nov-2023 04:00
Surr: 4-Bromofluorobenzene	97.8		77-113	%REC	1	11-Nov-2023 04:00
Surr: Dibromofluoromethane	95.3		77-123	%REC	1	11-Nov-2023 04:00
Surr: Toluene-d8	99.1		82-127	%REC	1	11-Nov-2023 04:00
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	50.7		0.500	mg/L	1	20-Nov-2023 12:18
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	654		10.0	mg/L	1	14-Nov-2023 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-4-20231108
Collection Date: 08-Nov-2023 12:00

ANALYTICAL REPORT

WorkOrder:HS23110663
Lab ID:HS23110663-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: FT		
Benzene	U		0.0010	mg/L	1	11-Nov-2023 04:22
Ethylbenzene	U		0.0010	mg/L	1	11-Nov-2023 04:22
Toluene	U		0.0010	mg/L	1	11-Nov-2023 04:22
Xylenes, Total	U		0.0010	mg/L	1	11-Nov-2023 04:22
Surr: 1,2-Dichloroethane-d4	98.3		70-126	%REC	1	11-Nov-2023 04:22
Surr: 4-Bromofluorobenzene	95.6		77-113	%REC	1	11-Nov-2023 04:22
Surr: Dibromofluoromethane	97.2		77-123	%REC	1	11-Nov-2023 04:22
Surr: Toluene-d8	97.1		82-127	%REC	1	11-Nov-2023 04:22
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	48.2		0.500	mg/L	1	20-Nov-2023 13:30
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	234		10.0	mg/L	1	14-Nov-2023 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 21-Nov-23

Client:GHD

Project:12603939 - Jal No. 4

Sample ID:MW-5-20231108

Collection Date:08-Nov-2023 12:45

ANALYTICAL REPORT

WorkOrder:HS23110663

Lab ID:HS23110663-05

Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: FT		
Benzene	U		0.0010	mg/L	1	11-Nov-2023 04:43
Ethylbenzene	U		0.0010	mg/L	1	11-Nov-2023 04:43
Toluene	U		0.0010	mg/L	1	11-Nov-2023 04:43
Xylenes, Total	U		0.0010	mg/L	1	11-Nov-2023 04:43
Surr: 1,2-Dichloroethane-d4	101		70-126	%REC	1	11-Nov-2023 04:43
Surr: 4-Bromofluorobenzene	95.2		77-113	%REC	1	11-Nov-2023 04:43
Surr: Dibromofluoromethane	96.6		77-123	%REC	1	11-Nov-2023 04:43
Surr: Toluene-d8	98.4		82-127	%REC	1	11-Nov-2023 04:43
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	214		2.50	mg/L	5	20-Nov-2023 13:36
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	944		10.0	mg/L	1	14-Nov-2023 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 21-Nov-23

Client:GHD

Project:12603939 - Jal No. 4

Sample ID:MW-6-20231108

Collection Date:08-Nov-2023 14:00

ANALYTICAL REPORT

WorkOrder:HS23110663

Lab ID:HS23110663-06

Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	U		0.0010	mg/L	1	11-Nov-2023 11:44
Ethylbenzene	U		0.0010	mg/L	1	11-Nov-2023 11:44
Toluene	U		0.0010	mg/L	1	11-Nov-2023 11:44
Xylenes, Total	U		0.0010	mg/L	1	11-Nov-2023 11:44
Surr: 1,2-Dichloroethane-d4	104		70-126	%REC	1	11-Nov-2023 11:44
Surr: 4-Bromofluorobenzene	96.0		77-113	%REC	1	11-Nov-2023 11:44
Surr: Dibromofluoromethane	112		77-123	%REC	1	11-Nov-2023 11:44
Surr: Toluene-d8	90.1		82-127	%REC	1	11-Nov-2023 11:44
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	78.1		2.50	mg/L	5	20-Nov-2023 13:42
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	518		10.0	mg/L	1	14-Nov-2023 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: RW-1-20231108
Collection Date: 08-Nov-2023 15:10

ANALYTICAL REPORT

WorkOrder:HS23110663
Lab ID:HS23110663-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	0.38		0.0050	mg/L	5	14-Nov-2023 05:57
Ethylbenzene	0.016		0.0010	mg/L	1	11-Nov-2023 12:07
Toluene	0.060		0.0010	mg/L	1	11-Nov-2023 12:07
Xylenes, Total	0.033		0.0010	mg/L	1	11-Nov-2023 12:07
Surr: 1,2-Dichloroethane-d4	109		70-126	%REC	1	11-Nov-2023 12:07
Surr: 1,2-Dichloroethane-d4	113		70-126	%REC	5	14-Nov-2023 05:57
Surr: 4-Bromofluorobenzene	94.9		77-113	%REC	1	11-Nov-2023 12:07
Surr: 4-Bromofluorobenzene	104		77-113	%REC	5	14-Nov-2023 05:57
Surr: Dibromofluoromethane	106		77-123	%REC	1	11-Nov-2023 12:07
Surr: Dibromofluoromethane	119		77-123	%REC	5	14-Nov-2023 05:57
Surr: Toluene-d8	96.4		82-127	%REC	1	11-Nov-2023 12:07
Surr: Toluene-d8	84.8		82-127	%REC	5	14-Nov-2023 05:57
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	90.8		2.50	mg/L	5	20-Nov-2023 13:48
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	460		10.0	mg/L	1	14-Nov-2023 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 21-Nov-23

Client: GHD
 Project: 12603939 - Jal No. 4
 Sample ID: DUP-01
 Collection Date: 08-Nov-2023 00:00

ANALYTICAL REPORT

WorkOrder:HS23110663
 Lab ID:HS23110663-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	0.22		0.025	mg/L	25	14-Nov-2023 20:19
Ethylbenzene	0.012		0.0010	mg/L	1	14-Nov-2023 19:54
Toluene	0.050		0.0010	mg/L	1	14-Nov-2023 19:54
Xylenes, Total	0.024		0.0010	mg/L	1	14-Nov-2023 19:54
Surr: 1,2-Dichloroethane-d4	116		70-126	%REC	1	14-Nov-2023 19:54
Surr: 1,2-Dichloroethane-d4	110		70-126	%REC	25	14-Nov-2023 20:19
Surr: 4-Bromofluorobenzene	98.8		77-113	%REC	1	14-Nov-2023 19:54
Surr: 4-Bromofluorobenzene	97.0		77-113	%REC	25	14-Nov-2023 20:19
Surr: Dibromofluoromethane	116		77-123	%REC	1	14-Nov-2023 19:54
Surr: Dibromofluoromethane	119		77-123	%REC	25	14-Nov-2023 20:19
Surr: Toluene-d8	92.4		82-127	%REC	1	14-Nov-2023 19:54
Surr: Toluene-d8	89.6		82-127	%REC	25	14-Nov-2023 20:19
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	89.8		2.50	mg/L	5	20-Nov-2023 13:54
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: DC		
Total Dissolved Solids (Residue, Filterable)	438		10.0	mg/L	1	14-Nov-2023 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R451544 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS23110663-02	MW-2-20231108	08 Nov 2023 09:40			11 Nov 2023 03:39	1
HS23110663-03	MW-3-20231108	08 Nov 2023 11:00			11 Nov 2023 04:00	1
HS23110663-04	MW-4-20231108	08 Nov 2023 12:00			11 Nov 2023 04:22	1
HS23110663-05	MW-5-20231108	08 Nov 2023 12:45			11 Nov 2023 04:43	1
Batch ID: R451584 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS23110663-06	MW-6-20231108	08 Nov 2023 14:00			11 Nov 2023 11:44	1
HS23110663-07	RW-1-20231108	08 Nov 2023 15:10			11 Nov 2023 12:07	1
Batch ID: R451721 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Groundwater	
HS23110663-02	MW-2-20231108	08 Nov 2023 09:40			13 Nov 2023 13:00	1
Batch ID: R451750 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS23110663-07	RW-1-20231108	08 Nov 2023 15:10			14 Nov 2023 05:57	5
Batch ID: R451840 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS23110663-08	DUP-01	08 Nov 2023 00:00			14 Nov 2023 20:19	25
HS23110663-08	DUP-01	08 Nov 2023 00:00			14 Nov 2023 19:54	1
Batch ID: R451840 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS23110663-01	12603939-TB-01	08 Nov 2023 00:00			14 Nov 2023 18:16	1
Batch ID: R451862 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Groundwater	
HS23110663-03	MW-3-20231108	08 Nov 2023 11:00			14 Nov 2023 12:30	1
HS23110663-04	MW-4-20231108	08 Nov 2023 12:00			14 Nov 2023 12:30	1
HS23110663-05	MW-5-20231108	08 Nov 2023 12:45			14 Nov 2023 12:30	1
HS23110663-06	MW-6-20231108	08 Nov 2023 14:00			14 Nov 2023 12:30	1
HS23110663-07	RW-1-20231108	08 Nov 2023 15:10			14 Nov 2023 12:30	1
HS23110663-08	DUP-01	08 Nov 2023 00:00			14 Nov 2023 12:30	1
Batch ID: R452331 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Groundwater	
HS23110663-02	MW-2-20231108	08 Nov 2023 09:40			20 Nov 2023 12:01	1
HS23110663-03	MW-3-20231108	08 Nov 2023 11:00			20 Nov 2023 12:18	1
HS23110663-04	MW-4-20231108	08 Nov 2023 12:00			20 Nov 2023 13:30	1
HS23110663-05	MW-5-20231108	08 Nov 2023 12:45			20 Nov 2023 13:36	5
HS23110663-06	MW-6-20231108	08 Nov 2023 14:00			20 Nov 2023 13:42	5
HS23110663-07	RW-1-20231108	08 Nov 2023 15:10			20 Nov 2023 13:48	5
HS23110663-08	DUP-01	08 Nov 2023 00:00			20 Nov 2023 13:54	5

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R451544 (0)		Instrument: VOA12		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-231110	Units: ug/L		Analysis Date: 10-Nov-2023 21:40					
Client ID:	Run ID: VOA12_451544	SeqNo: 7668083		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	U	1.0							
Ethylbenzene	U	1.0							
Toluene	U	1.0							
Xylenes, Total	U	3.0							
Surr: 1,2-Dichloroethane-d4	49.7	1.0	50	0	99.4	70 - 123			
Surr: 4-Bromofluorobenzene	46.53	1.0	50	0	93.1	77 - 113			
Surr: Dibromofluoromethane	48.29	1.0	50	0	96.6	73 - 126			
Surr: Toluene-d8	49.17	1.0	50	0	98.3	81 - 120			

LCS	Sample ID: VLCSW-231110	Units: ug/L		Analysis Date: 10-Nov-2023 20:36					
Client ID:	Run ID: VOA12_451544	SeqNo: 7668082		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	19.66	1.0	20	0	98.3	74 - 120			
Ethylbenzene	20.12	1.0	20	0	101	77 - 117			
Toluene	20.62	1.0	20	0	103	77 - 118			
Xylenes, Total	59.02	3.0	60	0	98.4	75 - 122			
Surr: 1,2-Dichloroethane-d4	49.11	1.0	50	0	98.2	70 - 123			
Surr: 4-Bromofluorobenzene	49.58	1.0	50	0	99.2	77 - 113			
Surr: Dibromofluoromethane	48.89	1.0	50	0	97.8	73 - 126			
Surr: Toluene-d8	49.28	1.0	50	0	98.6	81 - 120			

MS	Sample ID: HS23110663-05MS	Units: ug/L		Analysis Date: 11-Nov-2023 05:04					
Client ID: MW-5-20231108	Run ID: VOA12_451544	SeqNo: 7668104		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Benzene	18.95	1.0	20	0	94.7	70 - 127			
Ethylbenzene	19.31	1.0	20	0	96.5	70 - 124			
Toluene	19.28	1.0	20	0	96.4	70 - 123			
Xylenes, Total	56.71	3.0	60	0	94.5	70 - 130			
Surr: 1,2-Dichloroethane-d4	46.58	1.0	50	0	93.2	70 - 126			
Surr: 4-Bromofluorobenzene	47.86	1.0	50	0	95.7	77 - 113			
Surr: Dibromofluoromethane	46.7	1.0	50	0	93.4	77 - 123			
Surr: Toluene-d8	48.29	1.0	50	0	96.6	82 - 127			

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R451544 (0)		Instrument: VOA12		Method: LOW LEVEL VOLATILES BY SW8260C					
MSD	Sample ID: HS23110663-05MSD	Units: ug/L		Analysis Date: 11-Nov-2023 05:25					
Client ID: MW-5-20231108	Run ID: VOA12_451544		SeqNo: 7668105		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.26	1.0	20	0	96.3	70 - 127	18.95	1.66	20
Ethylbenzene	19.32	1.0	20	0	96.6	70 - 124	19.31	0.0718	20
Toluene	19.78	1.0	20	0	98.9	70 - 123	19.28	2.6	20
Xylenes, Total	58.91	3.0	60	0	98.2	70 - 130	56.71	3.8	20
Surr: 1,2-Dichloroethane-d4	48.96	1.0	50	0	97.9	70 - 126	46.58	4.99	20
Surr: 4-Bromofluorobenzene	47.14	1.0	50	0	94.3	77 - 113	47.86	1.52	20
Surr: Dibromofluoromethane	48.67	1.0	50	0	97.3	77 - 123	46.7	4.13	20
Surr: Toluene-d8	49.05	1.0	50	0	98.1	82 - 127	48.29	1.56	20
The following samples were analyzed in this batch:									
HS23110663-02 HS23110663-03 HS23110663-04 HS23110663-05									

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R451584 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-231110	Units: ug/L		Analysis Date: 11-Nov-2023 09:50					
Client ID:	Run ID: VOA4_451584	SeqNo: 7669400		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	1.0							
Ethylbenzene	U	1.0							
Toluene	U	1.0							
Xylenes, Total	U	3.0							
Surr: 1,2-Dichloroethane-d4	52.67	1.0	50	0	105	70 - 123			
Surr: 4-Bromofluorobenzene	47.18	1.0	50	0	94.4	77 - 113			
Surr: Dibromofluoromethane	57.03	1.0	50	0	114	73 - 126			
Surr: Toluene-d8	45.13	1.0	50	0	90.3	81 - 120			

LCS	Sample ID: VLCSW-231110	Units: ug/L		Analysis Date: 11-Nov-2023 08:41					
Client ID:	Run ID: VOA4_451584	SeqNo: 7669398		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.28	1.0	20	0	96.4	74 - 120			
Ethylbenzene	18.41	1.0	20	0	92.1	77 - 117			
Toluene	17.97	1.0	20	0	89.8	77 - 118			
Xylenes, Total	52.39	3.0	60	0	87.3	75 - 122			
Surr: 1,2-Dichloroethane-d4	55.23	1.0	50	0	110	70 - 123			
Surr: 4-Bromofluorobenzene	49.19	1.0	50	0	98.4	77 - 113			
Surr: Dibromofluoromethane	53.41	1.0	50	0	107	73 - 126			
Surr: Toluene-d8	49.04	1.0	50	0	98.1	81 - 120			

LCSD	Sample ID: VLCSDW-231110	Units: ug/L		Analysis Date: 11-Nov-2023 09:04					
Client ID:	Run ID: VOA4_451584	SeqNo: 7669399		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.8	1.0	20	0	94.0	74 - 120	19.28	2.51	20
Ethylbenzene	16.65	1.0	20	0	83.2	77 - 117	18.41	10.1	20
Toluene	16.46	1.0	20	0	82.3	77 - 118	17.97	8.76	20
Xylenes, Total	49.43	3.0	60	0	82.4	75 - 122	52.39	5.82	20
Surr: 1,2-Dichloroethane-d4	55.91	1.0	50	0	112	70 - 123	55.23	1.22	20
Surr: 4-Bromofluorobenzene	50.69	1.0	50	0	101	77 - 113	49.19	3.01	20
Surr: Dibromofluoromethane	53.47	1.0	50	0	107	73 - 126	53.41	0.097	20
Surr: Toluene-d8	48.42	1.0	50	0	96.8	81 - 120	49.04	1.28	20

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R451584 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C					
MS		Sample ID: HS23110677-01MS		Units: ug/L		Analysis Date: 11-Nov-2023 18:12			
Client ID:		Run ID: VOA4_451584		SeqNo: 7669421		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.61	1.0	20	0	98.0	70 - 127			
Ethylbenzene	17.81	1.0	20	0	89.0	70 - 124			
Toluene	17.31	1.0	20	0.4188	84.4	70 - 123			
Xylenes, Total	50.45	3.0	60	0	84.1	70 - 130			
Surr: 1,2-Dichloroethane-d4	55.78	1.0	50	0	112	70 - 126			
Surr: 4-Bromofluorobenzene	49.61	1.0	50	0	99.2	77 - 113			
Surr: Dibromofluoromethane	53.99	1.0	50	0	108	77 - 123			
Surr: Toluene-d8	47.84	1.0	50	0	95.7	82 - 127			

MSD		Sample ID: HS23110677-01MSD		Units: ug/L		Analysis Date: 11-Nov-2023 18:34			
Client ID:		Run ID: VOA4_451584		SeqNo: 7669422		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.7	1.0	20	0	93.5	70 - 127	19.61	4.73	20
Ethylbenzene	16.11	1.0	20	0	80.5	70 - 124	17.81	10	20
Toluene	15.66	1.0	20	0.4188	76.2	70 - 123	17.31	9.98	20
Xylenes, Total	47.4	3.0	60	0	79.0	70 - 130	50.45	6.25	20
Surr: 1,2-Dichloroethane-d4	60.27	1.0	50	0	121	70 - 126	55.78	7.73	20
Surr: 4-Bromofluorobenzene	48.82	1.0	50	0	97.6	77 - 113	49.61	1.59	20
Surr: Dibromofluoromethane	56.62	1.0	50	0	113	77 - 123	53.99	4.75	20
Surr: Toluene-d8	47.14	1.0	50	0	94.3	82 - 127	47.84	1.48	20

The following samples were analyzed in this batch: HS23110663-06 HS23110663-07

ALS Houston, US

Date: 21-Nov-23

Client: GHD
 Project: 12603939 - Jal No. 4
 WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R451750 (0)		Instrument: VOA7		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-231112	Units: ug/L		Analysis Date: 13-Nov-2023 21:32					
Client ID:	Run ID: VOA7_451750	SeqNo: 7673089		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	1.0							
Surr: 1,2-Dichloroethane-d4	56.7	1.0	50	0	113	70 - 123			
Surr: 4-Bromofluorobenzene	51.59	1.0	50	0	103	77 - 113			
Surr: Dibromofluoromethane	56.95	1.0	50	0	114	73 - 126			
Surr: Toluene-d8	43.66	1.0	50	0	87.3	81 - 120			

LCS	Sample ID: VLCSW-231112	Units: ug/L		Analysis Date: 13-Nov-2023 20:48					
Client ID:	Run ID: VOA7_451750	SeqNo: 7673088		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	21.77	1.0	20	0	109	74 - 120			
Surr: 1,2-Dichloroethane-d4	41.02	1.0	50	0	82.0	70 - 123			
Surr: 4-Bromofluorobenzene	52.64	1.0	50	0	105	77 - 113			
Surr: Dibromofluoromethane	45.26	1.0	50	0	90.5	73 - 126			
Surr: Toluene-d8	43.49	1.0	50	0	87.0	81 - 120			

MS	Sample ID: HS23110794-11MS	Units: ug/L		Analysis Date: 14-Nov-2023 00:05					
Client ID:	Run ID: VOA7_451750	SeqNo: 7673096		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	24.08	1.0	20	0	120	70 - 127			
Surr: 1,2-Dichloroethane-d4	45.92	1.0	50	0	91.8	70 - 126			
Surr: 4-Bromofluorobenzene	53.27	1.0	50	0	107	77 - 113			
Surr: Dibromofluoromethane	45.29	1.0	50	0	90.6	77 - 123			
Surr: Toluene-d8	42.73	1.0	50	0	85.5	82 - 127			

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R451750 (0)		Instrument: VOA7		Method: LOW LEVEL VOLATILES BY SW8260C						
MS		Sample ID: HS23110794-10MS		Units: ug/L		Analysis Date: 13-Nov-2023 23:21				
Client ID:		Run ID: VOA7_451750		SeqNo: 7673094		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	28.23	1.0	20	0	141	70 - 127				S
Surr: 1,2-Dichloroethane-d4	36.84	1.0	50	0	73.7	70 - 126				
Surr: 4-Bromofluorobenzene	51.51	1.0	50	0	103	77 - 113				
Surr: Dibromofluoromethane	40.66	1.0	50	0	81.3	77 - 123				
Surr: Toluene-d8	43.61	1.0	50	0	87.2	82 - 127				

MSD		Sample ID: HS23110794-11MSD		Units: ug/L		Analysis Date: 14-Nov-2023 00:27				
Client ID:		Run ID: VOA7_451750		SeqNo: 7673097		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	24.06	1.0	20	0	120	70 - 127	24.08	0.0603	20	
Surr: 1,2-Dichloroethane-d4	41.64	1.0	50	0	83.3	70 - 126	45.92	9.79	20	
Surr: 4-Bromofluorobenzene	53.2	1.0	50	0	106	77 - 113	53.27	0.131	20	
Surr: Dibromofluoromethane	44.51	1.0	50	0	89.0	77 - 123	45.29	1.72	20	
Surr: Toluene-d8	42.49	1.0	50	0	85.0	82 - 127	42.73	0.573	20	

MSD		Sample ID: HS23110794-10MSD		Units: ug/L		Analysis Date: 13-Nov-2023 23:43				
Client ID:		Run ID: VOA7_451750		SeqNo: 7673095		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	27.35	1.0	20	0	137	70 - 127	28.23	3.15	20	S
Surr: 1,2-Dichloroethane-d4	37.26	1.0	50	0	74.5	70 - 126	36.84	1.11	20	
Surr: 4-Bromofluorobenzene	52.89	1.0	50	0	106	77 - 113	51.51	2.63	20	
Surr: Dibromofluoromethane	40.11	1.0	50	0	80.2	77 - 123	40.66	1.36	20	
Surr: Toluene-d8	43.12	1.0	50	0	86.2	82 - 127	43.61	1.11	20	

The following samples were analyzed in this batch: HS23110663-07

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R451840 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-231114	Units: ug/L		Analysis Date: 14-Nov-2023 11:26					
Client ID:	Run ID: VOA4_451840	SeqNo: 7675101		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	1.0							
Ethylbenzene	U	1.0							
Toluene	U	1.0							
Xylenes, Total	U	3.0							
Surr: 1,2-Dichloroethane-d4	51.22	1.0	50	0	102	70 - 123			
Surr: 4-Bromofluorobenzene	47.76	1.0	50	0	95.5	77 - 113			
Surr: Dibromofluoromethane	54.37	1.0	50	0	109	73 - 126			
Surr: Toluene-d8	45.75	1.0	50	0	91.5	81 - 120			

LCS	Sample ID: VLCSW-231114	Units: ug/L		Analysis Date: 14-Nov-2023 10:40					
Client ID:	Run ID: VOA4_451840	SeqNo: 7675100		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.34	1.0	20	0	102	74 - 120			
Ethylbenzene	18.27	1.0	20	0	91.3	77 - 117			
Toluene	16.71	1.0	20	0	83.6	77 - 118			
Xylenes, Total	53.24	3.0	60	0	88.7	75 - 122			
Surr: 1,2-Dichloroethane-d4	58.38	1.0	50	0	117	70 - 123			
Surr: 4-Bromofluorobenzene	49.52	1.0	50	0	99.0	77 - 113			
Surr: Dibromofluoromethane	57.08	1.0	50	0	114	73 - 126			
Surr: Toluene-d8	47.59	1.0	50	0	95.2	81 - 120			

MS	Sample ID: HS23110788-02MS	Units: ug/L		Analysis Date: 14-Nov-2023 15:14					
Client ID:	Run ID: VOA4_451840	SeqNo: 7675111		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	22.3	1.0	20	0	111	70 - 127			
Ethylbenzene	18.17	1.0	20	0	90.9	70 - 124			
Toluene	16.8	1.0	20	0	84.0	70 - 123			
Xylenes, Total	53.16	3.0	60	0	88.6	70 - 130			
Surr: 1,2-Dichloroethane-d4	61.16	1.0	50	0	122	70 - 126			
Surr: 4-Bromofluorobenzene	49.88	1.0	50	0	99.8	77 - 113			
Surr: Dibromofluoromethane	61.84	1.0	50	0	124	77 - 123			S
Surr: Toluene-d8	44.8	1.0	50	0	89.6	82 - 127			

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R451840 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C						
MSD	Sample ID: HS23110788-02MSD	Units: ug/L		Analysis Date: 14-Nov-2023 15:37						
Client ID:	Run ID: VOA4_451840		SeqNo: 7675112		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.34	1.0	20	0	102	70 - 127	22.3	9.16	20	
Ethylbenzene	17.9	1.0	20	0	89.5	70 - 124	18.17	1.49	20	
Toluene	16.37	1.0	20	0	81.9	70 - 123	16.8	2.62	20	
Xylenes, Total	51.26	3.0	60	0	85.4	70 - 130	53.16	3.62	20	
Surr: 1,2-Dichloroethane-d4	58.75	1.0	50	0	117	70 - 126	61.16	4.03	20	
Surr: 4-Bromofluorobenzene	49.58	1.0	50	0	99.2	77 - 113	49.88	0.605	20	
Surr: Dibromofluoromethane	58.5	1.0	50	0	117	77 - 123	61.84	5.54	20	
Surr: Toluene-d8	46.79	1.0	50	0	93.6	82 - 127	44.8	4.35	20	

The following samples were analyzed in this batch: HS23110663-01 HS23110663-08

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R451721 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WMBLK-11132023	Units: mg/L		Analysis Date: 13-Nov-2023 13:00						
Client ID:	Run ID: Balance1_451721	SeqNo: 7672560		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0							
LCS	Sample ID: WLCS-11132023	Units: mg/L		Analysis Date: 13-Nov-2023 13:00						
Client ID:	Run ID: Balance1_451721	SeqNo: 7672559		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		1050	10.0	1000	0	105	85 - 115			
DUP	Sample ID: HS23110663-02DUP	Units: mg/L		Analysis Date: 13-Nov-2023 13:00						
Client ID: MW-2-20231108	Run ID: Balance1_451721	SeqNo: 7672548		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		546	10.0				546	0 20		
The following samples were analyzed in this batch:		HS23110663-02								

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R451862 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WMBLK-11142023	Units: mg/L			Analysis Date: 14-Nov-2023 12:30					
Client ID:	Run ID: Balance1_451862	SeqNo: 7675501		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0							
LCS	Sample ID: WLCS-11142023	Units: mg/L			Analysis Date: 14-Nov-2023 12:30					
Client ID:	Run ID: Balance1_451862	SeqNo: 7675500		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		1068	10.0	1000	0	107	85 - 115			
DUP	Sample ID: HS23110792-02DUP	Units: mg/L			Analysis Date: 14-Nov-2023 12:30					
Client ID:	Run ID: Balance1_451862	SeqNo: 7675498		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		386	10.0				384	0.519	20	
DUP	Sample ID: HS23110677-01DUP	Units: mg/L			Analysis Date: 14-Nov-2023 12:30					
Client ID:	Run ID: Balance1_451862	SeqNo: 7675485		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		15460	10.0				15440	0.129	20	
The following samples were analyzed in this batch:				HS23110663-03		HS23110663-04		HS23110663-05		HS23110663-06
				HS23110663-07		HS23110663-08				

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

QC BATCH REPORT

Batch ID: R452331 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 20-Nov-2023 09:56					
Client ID:	Run ID: ICS-Integrion_452331		SeqNo: 7685851		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 20-Nov-2023 10:07					
Client ID:	Run ID: ICS-Integrion_452331		SeqNo: 7685852		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.52	0.500	20	0	103	90 - 110				
MS	Sample ID: HS23110663-03MS	Units: mg/L			Analysis Date: 20-Nov-2023 12:24					
Client ID: MW-3-20231108	Run ID: ICS-Integrion_452331		SeqNo: 7685867		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	60.61	0.500	10	50.74	98.7	80 - 120				C
MS	Sample ID: HS23110663-02MS	Units: mg/L			Analysis Date: 20-Nov-2023 12:06					
Client ID: MW-2-20231108	Run ID: ICS-Integrion_452331		SeqNo: 7685864		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	69.05	0.500	10	59.22	98.4	80 - 120				C
MSD	Sample ID: HS23110663-03MSD	Units: mg/L			Analysis Date: 20-Nov-2023 12:30					
Client ID: MW-3-20231108	Run ID: ICS-Integrion_452331		SeqNo: 7685868		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	60.56	0.500	10	50.74	98.2	80 - 120	60.61	0.0759	20	C
MSD	Sample ID: HS23110663-02MSD	Units: mg/L			Analysis Date: 20-Nov-2023 12:12					
Client ID: MW-2-20231108	Run ID: ICS-Integrion_452331		SeqNo: 7685865		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	69.2	0.500	10	59.22	99.8	80 - 120	69.05	0.21	20	C
The following samples were analyzed in this batch:		HS23110663-02 HS23110663-06		HS23110663-03 HS23110663-07		HS23110663-04 HS23110663-08		HS23110663-05		

ALS Houston, US

Date: 21-Nov-23

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS23110663

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US

Date: 21-Nov-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 21-Nov-23

Sample Receipt Checklist

Work Order ID: HS23110663

Date/Time Received: 09-Nov-2023 09:40

Client Name: GHDHouston

Received by: Malcolm Burleson

Completed By: /S/ Corey Grandits	09-Nov-2023 20:27	Reviewed by: /S/ James Guin	10-Nov-2023 09:23
eSignature	Date/Time	eSignature	Date/Time

Matrices: WCarrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:307588
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☒	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

3.2UC/3.1C

IR31

Cooler(s)/Kit(s):

51739

Date/Time sample(s) sent to storage:

11/9/23

Water - VOA vials have zero headspace?

Yes ☒No ☐No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☒No ☐N/A ☐

pH adjusted?

Yes ☐No ☒N/A ☐

pH adjusted by:

Login Notes: RW-1-20231108 collection time logged in from container labels.

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 307588

Houston, TX
+1 281 530 5656Middletown, PA
+1 717 944 5541Spring City, PA
+1 610 948 4903Salt Lake City, UT
+1 801 266 7700South Charleston, WV
+1 304 356 3168York, PA
+1 717 505 5280

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order	E-19001-GL-21300132 Stacy Boul	Project Name	12603939 - Jal No. 4	A	8260_LL_W(8260 BTEX) [3xVOA HCl]												
Work Order		Project Number	12603939	B	TDS_W 2540C (2540C TDS) [250ml P Neat-share]												
Company Name	GHD	Bill To Company	Energy Transfer	C	300_W (300 Cl) [250ml P Neat-share]												
Send Report To	Blair Owen	Invoice Attn	Stacy Boultinghouse	D	TB 8260_LL_W(8260 BTEX) [3xVOA HCl]												
Address	11451 Katy Fwy Suite 400	Address	P.O Box 132400	E	HS23110663 GHD 12603939 - Jal No. 4 												
City/State/Zip	Houston, TX 77079	City/State/Zip	Dallas TX 75313	F													
Phone	(713) 734-3090	Phone		G													
Fax	(713) 734-3391	Fax		H													
e-Mail Address	blair.owen@ghd.com	e-Mail Address	Stacy.Boultinghouse@energytransfer.com	I													
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	12603939-TB01-			Water	1.8	2				X							
2	MW-2-20231108	11/8	9:40	GW	2.8	4	X	X	X								
3	MW-3-20231108	11/8	11:00	GW	2.8	4	X	X	X								
4	MW-4-20231108	11/8	12:00	GW	2.8	4	X	X	X								
5	MW-5-20231108	11/8	12:45	GW	2.8	4	X	X	X								
6	MW-6-20231108	11/8	14:00	GW	2.8	4	X	X	X								
7	RW-1-20231108	11/8		GW	2.8	4	X	X	X								
8	DUP-01	11/8		GW	2.8	4	X	X	X								
9																	
10																	
Sampler(s) Please Print & Sign Hunter Johnson		Shipment Method FedEx		Required Turnaround Time: (Check Box) ☒ STD: 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:									
Relinquished by: Hunter Johnson		Date: 11/8	Time: 15:35	Received by:			Notes: ETC Jal No. 4 Lea County NM										
Relinquished by:		Date:	Time:	Received by (Laboratory): 11092023 0940			Cooler ID 51739	Cooler Temp. 18.31 3.26C -0.1C	QC Package: (Check One Box Below) ☒ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Row/Date ☐ TRRP Level IV ☐ Level IV SV/446/CLP ☐ Other								
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):													
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Page 27 of 28

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 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>SM</i>
	Date: _____	Time: _____	Date: <i>11/09/23</i>
	Name: _____		
	Company: _____		

51739 NOV 09 2023

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>SM</i>
	Date: <i>11/6</i>	Time: <i>15:35</i>	Date: <i>11/09/23</i>
	Name: <i>AKD</i>		
	Company: <i>Wester Johnson</i>		



51739

ORIGIN ID:SGRA (505) 934-0902
 SIMON KOZIK
 GHD
 6121 INDIAN SCHOOL ROAD
 ALBUQUERQUE, NM 87110
 UNITED STATES US

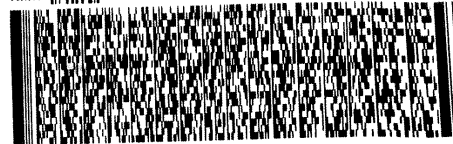
SHIP DATE: 02NOV23
 ACTWGT: 1.00 LB HAN
 CAD: 0221247/CAFE3755
 DIMS: 14x11x10 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-6666

REF: 12603939 - JAL NO 4 = BO 96782/3 - *JG

RMA: ||| ||| |||

FedEx
Express

FedEx

TRK# 6862 6798 4597

THU — 09 NOV 10:30A
PRIORITY OVERNIGHT

AB SGRA

77099

TX-US

IAH





GHD.com

→ The Power of Commitment

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 355028

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID:
	371183
	Action Number:
	355028
Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Groundwater Monitoring Report for Jal No. 4 Former Tank Battery: Content Satisfactory 1. Continue to conduct semi-annual groundwater monitoring events (BTEX, TDS, Chloride) in May and November as planned in report. 2. Continue to conduct quarterly LNAPL abatement events by hand-bailing at MW-1. 3. Use absorbent sock in the meantime as a way of passively removing LNAPL in-between quarterly events. 4. Submit the next annual groundwater report to OCD by June 17, 2025.	7/15/2024