

1755 Wittington Place, Suite 500
Dallas, Texas 75234
United States
ghd.com

Your Ref.: Incident Number nGRL1210048391
Our Ref.: 12660615-Buchanan-1

April 28, 2025

State of New Mexico
Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240

2024 Annual Groundwater Monitoring Report
Brahamey Gathering System 8-Inch Pipeline
ETP Crude LLC
Lea County, New Mexico
New Mexico Oil Conservation Division Permit 1RP-2794
Incident Number nGRL1210048391

Dear Mr. Buchanan:

On behalf of ETP Crude LLC (ETPC), formerly Centurion Pipeline, LP, GHD Services Inc. (GHD) is submitting the *2024 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 2024.

Should you have any questions or comments regarding this submittal, please do not hesitate to contact the undersigned.

Regards,

GHD



Deedee Whittington
Project Manager

+1 972-331-5924
deedee.whittington@ghd.com

DW/jlf/1



Mitch McCall
Project Director

+1 972-331-8551
mitch.mccall@ghd.com

Encl.: 2024 Annual Groundwater Monitoring Report

Copy to: Stacy Boultinghouse, Energy Transfer
Wes Harris, Landowner



2024 Annual Groundwater Monitoring Report

**Brahaney Gathering System 8-Inch
Pipeline**

Lea County, New Mexico

NMOCD 1RP-2794

Incident Number nGRL1210048391

ETP Crude LLC

April 28, 2025

→ The Power of Commitment

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[Status code]							
[Status code]							

GHD

1755 Wittington Place, Suite 500
Dallas, Texas 75234, United States
T +1 713 734 3090 | F +1 713 734 3391 | E info-northamerica@ghd.com | [ghd.com](https://www.ghd.com)

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Contents

1.	Introduction	1
1.1	Background	1
1.2	Geology and Hydrogeology	1
2.	Groundwater Monitoring	2
2.1	Monitoring Well Gauging	2
2.2	Groundwater Sampling	2
2.3	Quality Assurance/Quality Control	2
2.4	Analytical Results	2
3.	Summary and Recommendations	3
3.1	Summary	3
3.2	Recommendations	3
4.	Scope and Limitations	3

Table index

Table 1	Summary of Groundwater Elevation Data
Table 2	Summary of Groundwater Monitoring Field Parameters
Table 3	Summary of Groundwater Analytical Results

Figure index

Figure 1	Site Location Map
Figure 2	Site Details Map
Figure 3	Potentiometric Surface Map (March 2024)
Figure 4	Potentiometric Surface Map (September 2024)
Figure 5	COC Concentrations in Groundwater Map (2024)

Appendices

Appendix A	Laboratory Analytical Reports
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1. Introduction

This report presents the results of groundwater monitoring activities performed in 2024 by GHD Services Inc. (GHD) at the ETP Crude LLC (ETPC) Brahaney Gathering System (Site). The Site is located approximately seventeen miles southeast of Tatum, Lea County, New Mexico (**Figure 1**). Geographic coordinates for the Site are 33.214605° North and 103.109983° West. The Site is located in Section 4, Township 13 South, and Range 38 East. The property on which the Site is located is owned by Wes Harris. The Site is regulated by the New Mexico Oil Conservation Division (NMOCD) under remediation permit number 1RP-2794 and is associated with incident number nGRL1210048391.

1.1 Background

The Site has been in active assessment and remediation since 2011, when two releases were discovered the Brahaney Gathering System 8-inch steel transmission pipeline (Pipeline). A total of six groundwater monitoring wells have been installed at the Site between 2011 and 2013 (**Figure 2**).

In February 2011, approximately 20 barrels (bbls) of sweet crude oil were released from the Pipeline due to internal corrosion. The pipeline was immediately shut-in and excavated for inspection. Approximately 300-linear feet of Pipeline was replaced on February 12, 2011. No crude oil was reportedly recovered during emergency response activities. Initial remediation and assessment activities were conducted by B&H Environmental Services. Approximately 4,130-cubic yards (cy) of spill-impacted soil was excavated from the Site, of which; 225 cy were transported to Centurion Wasson Station for berm construction and 834-cubic yards were transported to Gandy's Landfarm in New Mexico. The remaining 3,200 cy of impacted soil was blended on-Site with clean backfill material from a nearby borrow pit. The excavated area was returned to natural grade and restoration was completed on June 24, 2011. Following backfilling activities, two permanent groundwater monitoring wells (MW-1 and MW-2) were installed in the vicinity of the release to evaluate potential impacts to groundwater.

On September 25, 2011, approximately 4-5 bbls of sweet crude oil were reportedly released from the Pipeline, due to internal corrosion. The Pipeline was immediately shut-in and repaired. An approximate 160 square foot (sq ft) area of crude oil affected soil near the release point was excavated, sampled, and transported off-Site to the Gandy Marly Landfill on September 28, 2011. The excavation was backfilled with soil purchased from the landowner to a depth of 5 feet below ground surface (ft bgs). A 20-mil liner was subsequently installed and then backfilled to surface. Between January 30 and February 6, 2013, four groundwater monitoring wells (MW-3 through MW-6) were installed in the vicinity of the release to evaluate potential impacts to groundwater. Periodic groundwater monitoring has been conducted at the Site since 2013.

Semi-annual groundwater monitoring events were completed in 2024 and are discussed in this report.

1.2 Geology and Hydrogeology

The Site is located on the Northwestern Shelf of the Permian Basin between the Matador Arch and Pedernal Uplift and is underlain by the Ogallala formation which is Pliocene to Middle Miocene in age. The Ogallala formation consists of poorly consolidated silt, sand, gravel and petrocalcic soils, and ranges from zero to 500 ft thick. Its base lies unconformably on the Triassic Dockum group which is divided into the Santa Rosa sandstone and Chinle formation. Rocks of Cretaceous age were deposited in Lea County but have been almost entirely removed by erosion (Nicholson and Clebsch, 1961).

According to the New Mexico Water Resources Assessment 2001 Plate 3, the regional groundwater gradient in the area is to the southeast and shifts to the southwest towards the Pecos River when transitioning from east to west into the Lower Pecos Valley from the Southern High Plains. The depth to groundwater at the Site ranges from approximately 95 to 102 ft bgs.

2. Groundwater Monitoring

GHD performed semi-annual monitoring events in March and September 2024. The monitoring program included gauging and collection of groundwater samples from monitoring wells MW-1 through MW-5. Due to insufficient volume of water, monitoring well MW-6 was not sampled during the September 2024 monitoring event.

2.1 Monitoring Well Gauging

On March 14 and September 24, 2024, GHD personnel measured the depth to groundwater in monitoring wells MW-1 through MW-6 using an electronic oil/water interface probe (IP). Light non-aqueous phase liquid (LNAPL) has never been detected in monitoring wells at the Site. The IP was cleaned with laboratory-grade soap and purified water prior to gauging each monitoring well. Depth to groundwater and calculated groundwater elevations are summarized in **Table 1**.

Based on the data collected in 2024, groundwater flow is generally to the south and is consistent with historical data for the Site. Groundwater potentiometric surface maps for the March and September 2024 monitoring events are presented as **Figures 3 and 4**. The groundwater gradient was calculated to be approximately 0.0050 foot per foot (ft/ft) in March and September 2024.

2.2 Groundwater Sampling

Following gauging during each 2024 monitoring event, GHD personnel utilized a bladder pump to purge a minimum of three well volumes of groundwater or until the well was dry. Groundwater quality field parameters of temperature, pH, oxidation reduction potential, and conductivity were collected with a field-calibrated multi-parameter groundwater quality meter to confirm stabilization of the groundwater prior to the collection of groundwater samples. A summary of groundwater field parameters is presented in **Table 2**.

Following purging and confirmation of groundwater stabilization, groundwater samples were collected and placed in laboratory-prepared sample containers, labeled, packed in a cooler with ice, and transported under chain-of-custody documentation to ALS Environmental (ALS) in Houston, Texas. All samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method SW8260C, total petroleum hydrocarbons (TPH) gasoline range organics (GRO) by EPA Method 8015C, TPH diesel range organics (DRO) by EPA Method 8015M, and chlorides by EPA Method 300.0.

2.3 Quality Assurance/Quality Control

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

2.4 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 2024 are summarized in **Table 3**, and the corresponding laboratory analytical reports are included in Appendix A. A COC concentration map is presented as **Figure 5**. A summary of analytical results for 2024 is provided below:

- Concentrations of BTEX and TPH were not detected above laboratory detection limits in all groundwater samples collected from monitoring wells MW-1 through MW-6 during 2024.

- Concentrations of chlorides were detected in all groundwater samples collected from monitoring wells MW-1 through MW-6 during 2024; however, the concentrations did not exceed NMWQCC criteria.

3. Summary and Recommendations

3.1 Summary

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

- LNAPL was not detected in any of the on-Site monitoring wells during 2024.
- Concentrations of BTEX, TPH, and chlorides are not present in groundwater at the Site above laboratory detection limits and/or applicable NMWQCC criteria.

3.2 Recommendations

Based on the results of the 2024 groundwater monitoring events, GHD recommends the following in 2025:

- BTEX concentrations have been below NMWQCC standards for twelve consecutive quarters in all monitoring wells at the Site (MW-1 through MW-6).
The Site is located in a remote area, whereby the only human presence at the Site would be related to subgrade pipeline repair, or other similar oil field tasks.
- The Site currently meets the standards and requirements set forth in 19.15.30.9 NMAC for abatement completion for the groundwater portion of this incident.
- A solid-matrix work plan for a one-time sampling of the vadose zone has been prepared for approval to close the soil portion of this incident with the NMOCD.

4. Scope and Limitations

This report has been prepared by GHD for ETP Crude LLC and may only be used and relied on by ETP Crude LLC for the purpose agreed between GHD and ETP Crude LLC.

GHD otherwise disclaims responsibility to any person other than ETP Crude 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.

Table 1

Summary of Groundwater Elevation Data
Brahaney Gathering System 8-Inch
Lea County, New Mexico
ETP Crude LLC
NMOCD 1RP-2794

Monitoring Well ID	Measurement Date	Top of Casing Elevation (ft AMSL)	Total Depth (ft below TOC)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft AMSL)
MW-1	8/27/2021	3844.76	105.76	99.52	3745.24
	12/27/2021		105.76	99.73	3745.03
	4/28/2022		105.76	99.94	3744.82
	6/30/2022		105.76	100.03	3744.73
	8/25/2022		105.76	100.16	3744.60
	11/11/2022		105.76	100.34	3744.42
	3/17/2023		105.76	100.56	3744.20
	9/29/2023		105.76	101.19	3743.57
	12/18/2023		105.76	101.35	3743.41
	3/14/2024		105.90	101.70	3743.06
MW-2	9/24/2024	3849.76	105.84	102.20	3742.56
	8/27/2021		122.02	105.72	3744.04
	12/27/2021		122.02	99.54	3750.22
	4/28/2022		122.02	99.88	3749.88
	6/30/2022		122.02	99.51	3750.25
	8/25/2022		122.02	101.32	3748.44
	11/11/2022		122.02	103.98	3745.78
	3/17/2023		122.02	104.20	3745.56
	9/29/2023		122.02	104.78	3744.98
	12/18/2023		122.02	104.92	3744.84
MW-3	3/14/2024	3845.74	112.55	105.21	3744.55
	9/24/2024		123.10	105.72	3744.04
	8/27/2021		107.45	96.96	3748.78
	12/27/2021		107.45	97.25	3748.49
	4/28/2022		107.45	97.46	3748.28
	6/30/2022		107.45	97.56	3748.18
	8/25/2022		107.45	97.70	3748.04
	11/11/2022		107.45	97.73	3748.01
	3/17/2023		107.45	98.13	3747.61
	9/29/2023		107.45	98.66	3747.08
MW-4	12/18/2023	3846.43	107.45	98.76	3746.98
	3/14/2024		103.92	99.04	3746.70
	9/24/2024		104.12	99.54	3746.20
	8/27/2021		104.05	96.98	3749.45
	12/27/2021		104.05	97.60	3748.83
	4/28/2022		104.05	97.84	3748.59
	6/30/2022		104.05	97.93	3748.50
	8/25/2022		104.05	98.06	3748.37
	11/11/2022		104.05	98.25	3748.18
	3/17/2023		104.05	98.48	3747.95
MW-5	9/29/2023	3845.96	104.05	99.02	3747.41
	12/18/2023		104.05	99.09	3747.34
	3/14/2024		102.78	99.39	3747.04
	9/24/2024		103.40	99.88	3746.55
	8/27/2021		102.86	97.35	3748.61
	12/27/2021		102.86	97.22	3748.74
	4/28/2022		102.86	97.44	3748.52
	6/30/2022		102.86	97.54	3748.42
	8/25/2022		102.86	97.68	3748.28
	11/11/2022		102.86	97.80	3748.16
MW-6	3/17/2023	3848.40	102.86	98.10	3747.86
	9/29/2023		102.86	98.62	3747.34
	12/18/2023		102.86	98.72	3747.24
	3/14/2024		107.51	99.01	3746.95
	9/24/2024		106.98	99.51	3746.45
	8/27/2021		101.61	99.22	3749.18
	12/27/2021		101.61	99.48	3748.92
	4/28/2022		101.61	99.70	3748.70
	6/29/2022		101.61	99.80	3748.60
	8/25/2022		101.61	99.96	3748.44
MW-6	11/11/2022		101.61	100.00	3748.40
	3/17/2023		101.61	100.37	3748.03
	9/29/2023		101.61	100.90	3747.50
	12/18/2023		101.61	101.00	3747.40
	3/14/2024		101.45	101.26	3747.14
	9/24/2024		102.70	101.32	3747.08

Notes:

1) ft AMSL - feet above mean sea level

2) TOC - top-of-casing.

3) Light non-aqueous phase liquids (LNAPL) have never been detected in the monitoring wells at the Site.

Table 2

**Summary of Groundwater Monitoring Field Parameters
Brahoney Gathering System 8-Inch
Lea County, New Mexico
ETP Crude LLC
NMOCD 1RP-2794**

Monitoring Well ID	Measurement Date	Temperature (°C)	pH	DO (mg/L)	ORP (mV)	Conductivity (µS/cm)
MW-1	8/27/2021	26.99	7.15	6.65	119	784
	12/27/2021	19.20	7.48	4.17	33.8	874
	4/28/2022	23.31	7.42	4.55	139	767
	6/30/2022	22.05	7.31	3.37	142	842
	8/25/2022	25.45	5.32	3.26	236	848
	11/11/2022	19.75	7.43	--	285	828
	3/17/2023	16.63	7.04	3.18	160	734
	9/29/2023	24.33	6.64	5.92	250	884
	12/19/2023	17.42	7.40	6.00	181	795
MW-2	3/14/2024	19.51	6.94	5.32	36.4	1195
	9/24/2024	27.30	4.57	3.48	-37.0	1030
	8/27/2021	27.54	7.47	6.27	95.0	701
	12/27/2021	18.40	7.73	5.38	37.2	735
	4/28/2022	20.49	7.70	5.90	151	656
	6/30/2022	22.69	7.60	4.59	139	721
	8/25/2022	24.14	5.13	3.89	276	711
	11/11/2022	17.67	7.46	4.15	296	728
	3/17/2023	15.32	7.25	6.36	172	615
MW-3	9/29/2023	21.15	6.91	7.63	238	730
	12/19/2023	18.74	7.60	9.04	203	686
	3/19/2024	21.14	6.10	5.63	37.0	710
	9/24/2024	21.80	7.46	8.32	4.8	810
	8/27/2021	24.05	7.40	4.97	113	760
	12/27/2021	18.60	7.73	5.26	35.0	789
	4/28/2022	25.55	7.65	4.81	132	695
	6/30/2022	24.81	7.57	3.73	142	774
	8/25/2022	24.26	5.08	3.73	268	763
MW-4	11/11/2022	20.95	7.96	0.68	274	752
	3/17/2023	17.31	7.23	5.83	163	659
	9/29/2023	23.25	6.39	6.79	244	823
	12/19/2023	17.95	7.56	6.11	187	754
	3/14/2024	20.62	7.56	5.14	14.8	855
	9/24/2024	23.40	7.10	4.90	-4.0	890
	8/27/2021	23.80	7.46	5.90	107	753
	12/27/2021	18.40	7.73	5.24	35.9	807
	4/28/2022	25.76	7.61	1.88	131	723
MW-5	6/30/2022	26.63	7.54	4.03	148	812
	8/25/2022	25.67	4.99	4.06	278	803
	11/11/2022	20.95	7.44	4.38	301	815
	3/17/2023	18.29	7.12	6.17	176	694
	9/29/2023	24.92	6.15	7.03	257	889
	12/19/2023	18.68	7.23	6.87	202	788
	3/14/2024	18.95	7.09	5.71	31.0	731
	9/24/2024	23.30	6.48	5.40	-20.0	970
	8/27/2021	27.53	7.50	5.73	108	749
MW-6	12/27/2021	18.90	7.78	4.90	31.6	769
	4/28/2022	26.68	7.54	4.73	138	671
	6/30/2022	24.28	7.62	4.09	153	753
	8/25/2022	25.27	5.16	3.87	272	751
	11/11/2022	21.12	7.56	4.15	306	750
	3/17/2023	18.64	7.25	5.86	177	640
	9/29/2023	23.16	7.21	7.13	231	801
	12/19/2023	19.53	6.98	7.95	211	742
	3/14/2024	19.43	7.23	5.41	25.3	882
MW-6	9/24/2024	24.20	4.54	5.53	-20.8	880
	8/27/2021	29.50	7.43	4.82	111	743
	12/27/2021	18.10	7.70	5.34	38.0	844
	4/28/2022	30.35	7.21	3.61	159	719
	6/30/2022	27.88	7.58	2.39	161	818
	8/25/2022	28.30	4.86	3.43	288	800
	11/11/2022	19.05	7.48	5.52	315	827
	3/17/2023	18.13	7.26	7.51	178	692
	9/29/2023	--	--	--	--	--
MW-6	12/19/2023	--	--	--	--	--
	3/14/2024	--	--	--	--	--
	9/24/2024	--	--	--	--	--

Notes:

°C - degrees Celsius.

µS/cm - microsiemens per centimeter.

mg/L - milligrams per liter.

"--" - not measured due to insufficient volume of water.

mV - millivolts.

DO - dissolved oxygen.

ORP - oxidation reduction potential.

Table 3

**Summary of Groundwater Analytical Results
Brahamey Gathering System 8-Inch
Lea County, New Mexico
ETP Crude LLC
NMOCD 1RP-2794**

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	TPH GRO	TPH DRO	TPH ORO	Chloride	TDS	Sulfate
NMWQCC Groundwater Quality Standards:		0.005	1.00	0.70	0.62	ne	ne	ne	250	1,000	600
MW-1	8/16/2016	0.002	0.00007	0.0003	<0.0001	<1.00	<1.00	<1.00	64.0	--	--
	5/10/2017	<0.005	0.005	0.005	--	--	--	--	58.8	--	--
	12/28/2017	--	0.005	0.005	<0.005	--	--	--	57.0	--	--
	3/22/2018	--	0.005	0.005	<0.005	--	--	--	56.8	--	--
	6/27/2018	--	0.00019	0.0005	<0.0005	--	--	--	55.3	--	--
	12/12/2018	--	0.00019	0.0005	<0.0005	--	--	--	57.1	--	--
	4/16/2019	--	0.000146	0.000146	<0.000192	--	--	--	61.0	--	--
	8/27/2021	<0.001	<0.001	<0.001	<0.003	<0.100	<0.100	<0.100	55.7	544	108
	12/27/2021	<0.001	<0.001	<0.001	0.000655 J	<0.100	0.102	0.306	59.3	538	110
	4/28/2022	<0.001	<0.001	<0.001	<0.005	<1.00	<1.00	<0.100	60.9	567	115
	6/30/2022	<0.001	<0.001	<0.001	<0.005	<0.0314	<0.0222	<1.00	61.2	540	110
	8/27/2022	<0.002	0.0017	<0.003	<0.003	<0.0100	<0.021	<0.021	60.7	620	105
	11/11/2022	<0.002	<0.002	<0.003	<0.003	<0.0100	0.310	<0.021	59.4	534	113
	3/17/2023	<0.002	<0.002	<0.003	<0.003	<0.0100	<0.021	<0.021	60.7	640	120
	9/29/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	56.8	--	--
	12/19/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	59.8	--	--
MW-2	3/14/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	59.0	--	--
	9/24/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	57.8	--	--
	8/16/2016	<0.00008	0.00007	0.00006	<0.0001	<1.00	<1.00	<1.00	60.0	--	--
	5/10/2017	<0.005	0.005	0.005	--	--	--	--	56.3	--	--
	12/28/2017	<0.005	0.005	0.005	<0.005	--	--	--	92.7	--	--
	3/22/2018	<0.005	<0.005	<0.005	<0.005	--	--	--	52.4	--	--
	6/27/2018	<0.000185	<0.00019	<0.0005	<0.0005	--	--	--	52.1	--	--
	12/12/2018	<0.000185	<0.00019	<0.0005	<0.0005	--	--	--	53.4	--	--
	4/16/2019	<0.000214	<0.000146	<0.000146	<0.000192	--	--	--	57.9	--	--
	8/27/2021	<0.001	<0.001	<0.001	<0.003	<0.100	0.11	<0.100	53.5	477	110
	12/27/2021	<0.001	<0.001	<0.001	<0.003	<0.100	0.155	0.179	55.7	481	109
	4/28/2022	<0.001	<0.001	<0.001	<0.003	<0.0314	<1.00	<1.00	52.1	474	109
	6/30/2022	<0.001	<0.001	<0.001	<0.003	<0.0314	<1.00	<1.00	54.3	477	109
	8/27/2022	<0.002	<0.002	<0.003	<0.003	<0.0100	<0.021	<0.021	52.4	528	107
	11/11/2022	<0.002	<0.002	<0.003	<0.003	<0.0100	0.230	<0.021	53.8	494	113
	3/17/2023	<0.002	<0.002	<0.003	<0.003	<0.0100	0.140	0.470	56.8	572	119
MW-3	9/29/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	54.7	--	--
	12/19/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	56.8	--	--
	3/19/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	29.5	--	--
	9/24/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.200	<0.0500	--	56.3	--	--
	8/16/2016	0.035	0.004	0.033	0.016	<1.00	<1.00	<1.00	64.0	--	--
	5/10/2017	0.0156	<0.005	0.00555	--	--	--	--	56.4	--	--
	12/28/2017	<0.005	<0.005	<0.005	<0.005	--	--	--	54.8	--	--
	3/22/2018	<0.005	<0.005	<0.005	<0.005	--	--	--	55.9	--	--
	6/27/2018	0.00408	<0.00019	0.00108	<0.0005	--	--	--	66.3	--	--
	12/12/2018	0.00272	0.0028	0.00146	<0.0005	--	--	--	57.2	--	--
	4/16/2019	0.00041 J	<0.000146	0.00038 J	<0.000192	--	--	--	62.6	--	--
	8/27/2021	<0.001	<0.001	<0.001	<0.003	<0.100	<0.100	<0.100	61.2	524	111
	12/27/2021	0.000247 J	<0.001	<0.001	0.000362 J	<0.100	0.0749 J	0.199	65.3	--	119
	4/28/2022	<0.005	<0.001	<0.001	<0.003	<0.100	<1.00	<1.00	64.2	508	112
	6/30/2022	<0.005	<0.001	<0.001	<0.003	<0.0314	<0.0222	<0.0118	62.5	492	108
	8/27/2022	<0.002	<0.002	<0.003	<0.003	<0.0100	<0.021	<0.021	60.7	564	106
	11/11/2022	<0.002	<0.002	<0.003	<0.003	<0.0100	<0.020	<0.020	51.6	498	91.5
	3/17/2023	<0.002	<0.002	<0.003	<0.003	<0.0100	<0.020	<0.020	66.3	572	116
	9/29/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	63.6	--	--
	12/19/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	65.5	--	--
	3/14/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	66.3	--	--
	9/24/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.200	<0.0500	--	64.1	--	--

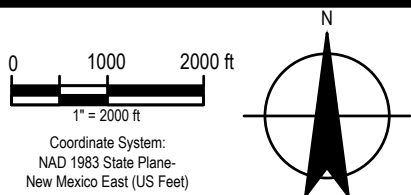
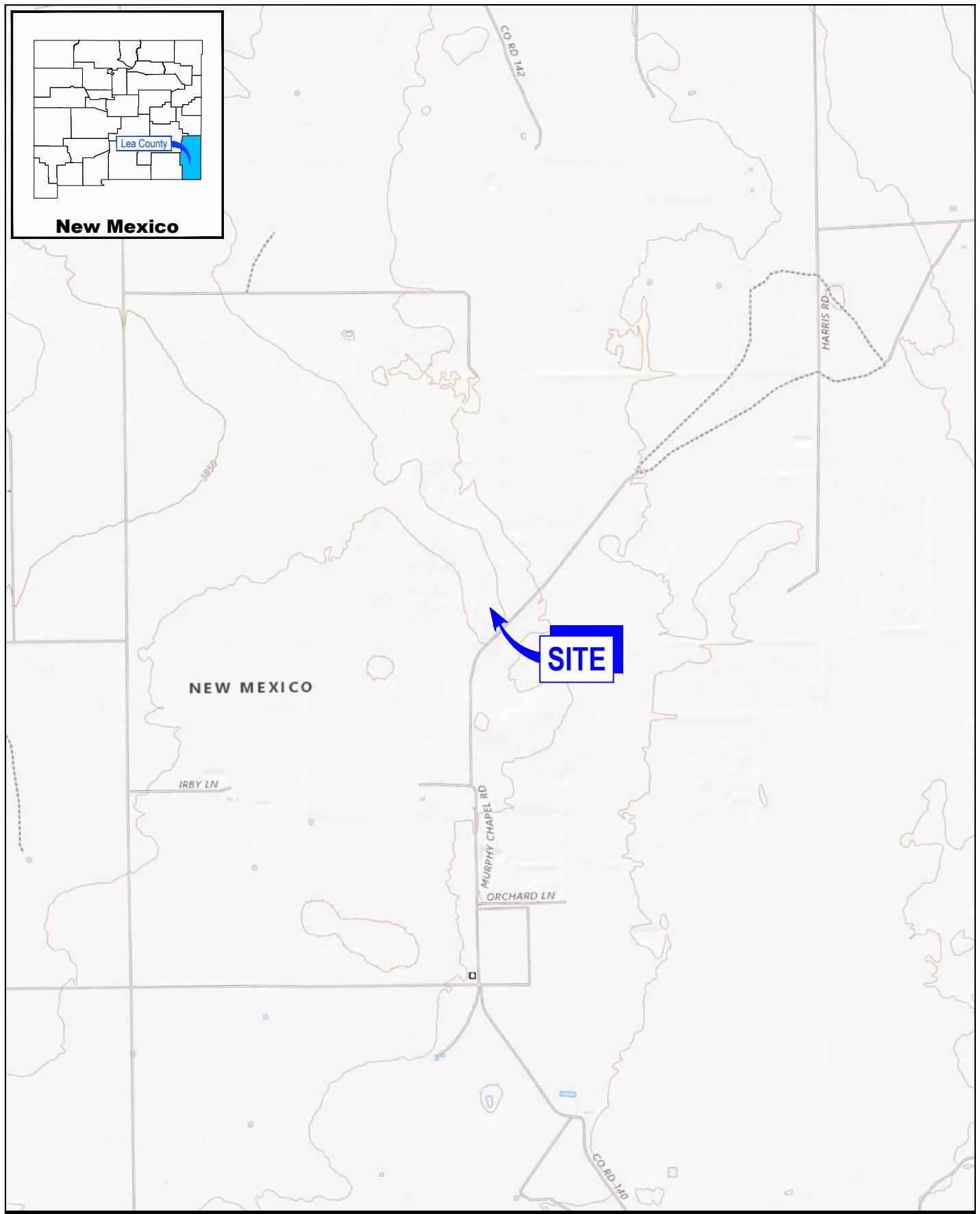
Table 3

**Summary of Groundwater Analytical Results
Brahamey Gathering System 8-Inch
Lea County, New Mexico
ETP Crude LLC
NMOCD 1RP-2794**

Monitoring Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	TPH GRO	TPH DRO	TPH ORO	Chloride	TDS	Sulfate
NMWQCC Groundwater Quality Standards:		0.005	1.00	0.70	0.62	ne	ne	ne	250	1,000	600
MW-4	8/16/2016	0.005	0.0008	0.004	0.002	<1.00	<1.00	<1.00	64.0	--	--
	5/10/2017	0.0113	<0.005	0.00628	--	--	--	--	57.4	--	--
	12/28/2017	<0.005	<0.005	<0.005	<0.005	--	--	--	55.3	--	--
	3/22/2018	<0.005	<0.005	<0.005	<0.005	--	--	--	54.8	--	--
	6/27/2018	0.0035	0.00034	0.00235	0.00155	--	--	--	54.6	--	--
	12/12/2018	0.0042	0.0055	0.00297	0.00267	--	--	--	57.4	--	--
	4/16/2019	0.00239	0.00032 J	0.00171	0.00149	--	--	--	60.7	--	--
	8/27/2021	<0.001	<0.001	<0.001	<0.003	<0.100	<0.100	<0.100	62.6	506	112
	12/27/2021	<0.001	<0.001	<0.001	<0.003	<0.100	0.0909 J	0.25	66.3	--	109
	4/28/2022	<0.005	<0.001	<0.005	<0.005	<1.00	<1.00	<0.100	67.3	525	111
	6/30/2022	<0.005	<0.001	<0.005	<0.005	<0.0314	<1.00	0.448 B	64.8	514	109
	8/27/2022	<0.005	0.0018	<0.003	<0.003	<0.0100	<0.021	<0.021	62.5	556	106
	11/11/2022	<0.005	<0.001	<0.003	<0.005	<0.0100	<1.00	<1.00	62.5	532	110
	3/17/2023	<0.002	<0.002	<0.003	<0.003	<0.0100	<0.021	<0.021	66.4	600	115
	9/29/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	64.4	--	--
	12/19/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	66.3	--	--
	3/14/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	66.7	--	--
	9/24/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.200	<0.0500	--	64.7	--	--
MW-5	8/16/2016	0.007	0.001	0.006	0.002	<1.00	<1.00	<1.00	60.0	--	--
	5/10/2017	0.0139	<0.005	0.00753	--	--	--	--	58.3	--	--
	12/28/2017	0.00739	<0.005	<0.005	<0.005	--	--	--	81	--	--
	3/22/2018	<0.005	<0.005	<0.005	<0.005	--	--	--	57.6	--	--
	6/27/2018	0.00408	0.00038	0.00256	0.00106	--	--	--	56.6	--	--
	12/12/2018	0.002	0.0028	0.0014	<0.0005	--	--	--	60.0	--	--
	4/16/2019	0.00171	0.00021 J	0.00104	0.00087 J	--	--	--	63.2	--	--
	8/27/2021	<0.001	<0.001	<0.001	<0.003	<0.100	<0.100	<0.100	63.9	489	109
	12/27/2021	0.000444 J	0.000269 J	0.00112	0.00115 J	<0.100	0.0509 J	0.176	64.9	--	112
	4/28/2022	<0.005	0.00135	<0.005	<0.005	<1.00	<1.00	<0.100	65.0	496	110
	6/30/2022	<0.005	0.00102	<0.005	<0.005	<0.0314	<1.00	<1.00	63.6	491	109
	8/27/2022	0.002	0.0018	<0.003	<0.003	<0.0100	<0.021	<0.021	62.0	528	107
	11/11/2022	<0.005	0.0015	<0.005	0.0015	<0.0100	<0.020	<0.02	62.2	510	112
	3/17/2023	0.002	0.0012	<0.003	<0.005	0.168	<0.020	<0.02	66.2	490	117
	9/29/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	63.3	--	--
	12/19/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	65.6	--	--
	3/14/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	66.1	--	--
	9/24/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.200	<0.0500	--	64.9	--	--
MW-6	8/16/2016	0.007	0.0009	0.005	0.002	<1.00	<1.00	<1.00	60.0	--	--
	5/10/2017	<0.005	<0.005	<0.005	--	--	--	--	55.4	--	--
	12/28/2017	0.00642	<0.005	<0.005	<0.005	--	--	--	83.2	--	--
	3/22/2018	<0.005	<0.005	<0.005	<0.005	--	--	--	53.7	--	--
	6/27/2018	0.00536	0.00026	0.00212	<0.0005	--	--	--	54.1	--	--
	12/12/2018	0.00514	0.0035	0.00201	0.00176	--	--	--	56.4	--	--
	4/16/2019	0.00044 J	<0.000146	0.00021 J	<0.000192	--	--	--	60.3	--	--
	8/27/2021	<0.001	<0.001	<0.001	<0.003	<0.100	<0.100	<0.100	61.2	514	113
	12/27/2021	0.000977 J	0.00066 J	0.00196	0.00378	0.0341 J	0.118	0.211	64.6	--	109
	4/28/2022	<0.005	0.00165	<0.005	<0.005	<1.00	<1.00	<0.100	63.8	491	138
	6/30/2022	<0.005	<0.001	<0.005	<0.005	<0.0314	<1.00	0.174 B	63.4	518	110
	8/27/2022	<0.005	0.0027	<0.005	0.0019	<1.00	<0.0210	<0.021	59.8	568	104
	11/11/2022	0.0012	0.0018	<0.005	0.003	<0.100	<0.0200	<0.0201	61.6	564	111
	3/17/2023	0.0016	0.0026	<0.005	0.0033	0.198	<0.0210	<0.021	66.1	512	115
	9/29/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	63.3	--	--
	12/19/2023	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.0500	--	65.6	--	--
	3/14/2024	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	--	--	65.7	--	--
	9/24/2024	--	--	--	--	--	--	--	--	--	--

Notes:

- 1) Analytical results are presented in milligrams per liter (mg/L).
- 2) NMWQCC = New Mexico Water Quality Control Commission.
- 3) ne - not established.
- 4) -- = not analyzed.
- 5) < - Analyte was not detected at or above the laboratory reporting limit.
- 6) J = Concentration is less than the quantitation limit and is an estimated value.
- 7) B - The same analyte is found in the associated blank.
- 8) Shaded/bolded results exceed their respective NMWQCC groundwater quality standard.
- 9) Analytical data from 2016 to 2022 was supplied by Apex TITAN, Inc.
- 10) TPH - total petroleum hydrocarbons, GRO - gasoline range organics, DRO - diesel range organics, TDS - total dissolved solids.

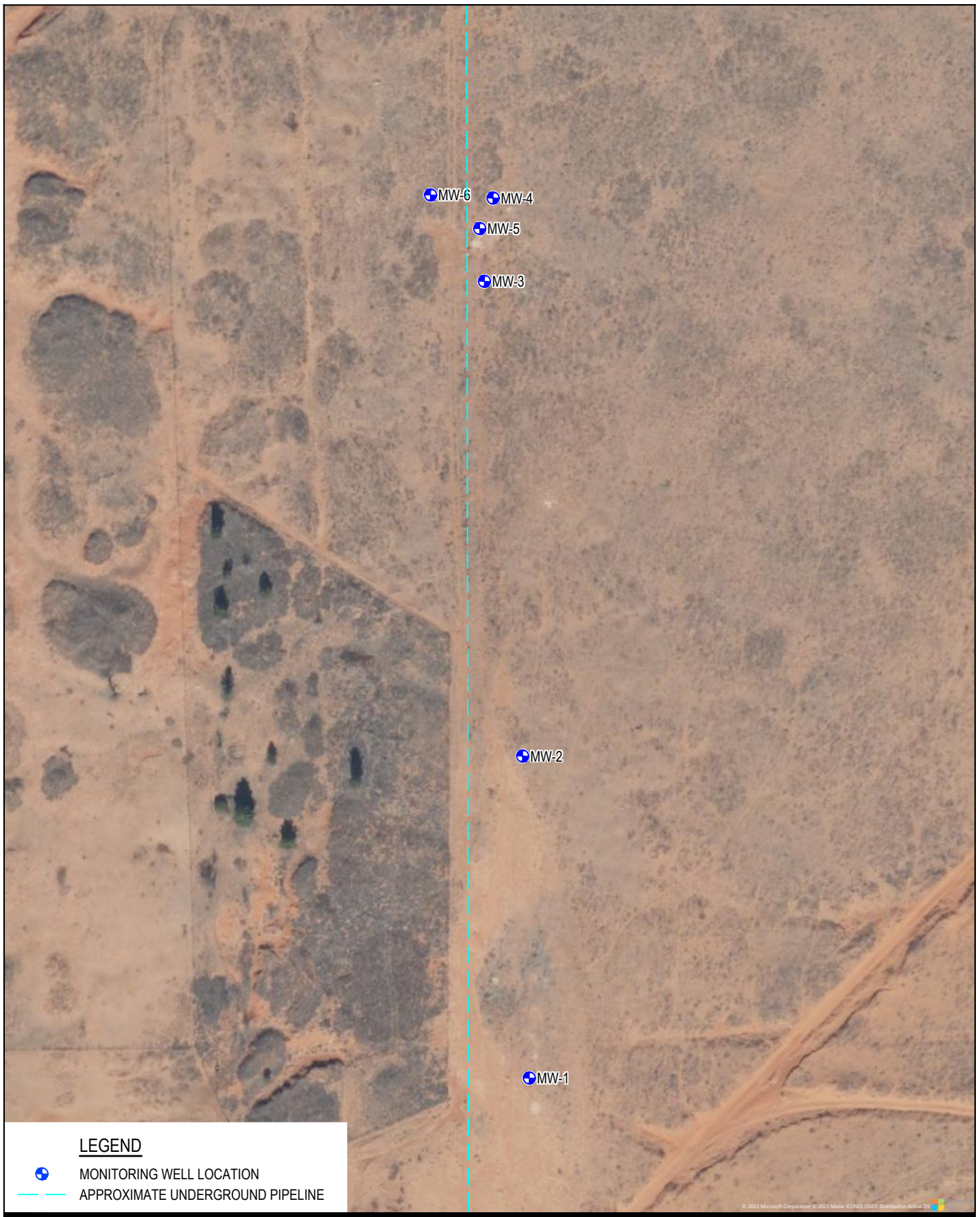


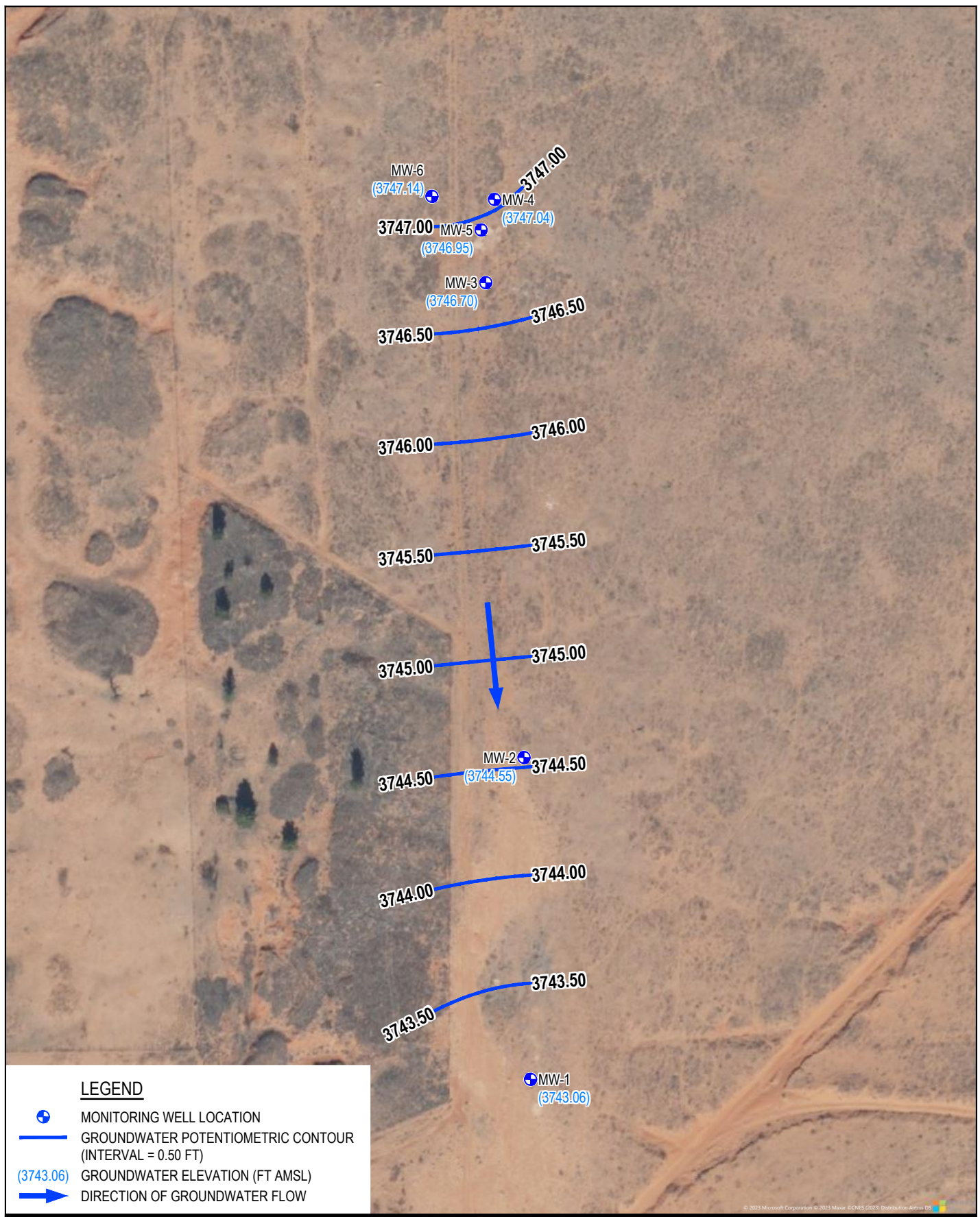
ETP CRUDE LLC
LEA COUNTY, NEW MEXICO
BRAHANEY GATHERING SYSTEM 8 INCH PIPELINE
NMOCD 1RP-2794

Project No. 12660615
Date April 2025

SITE LOCATION MAP

FIGURE 1





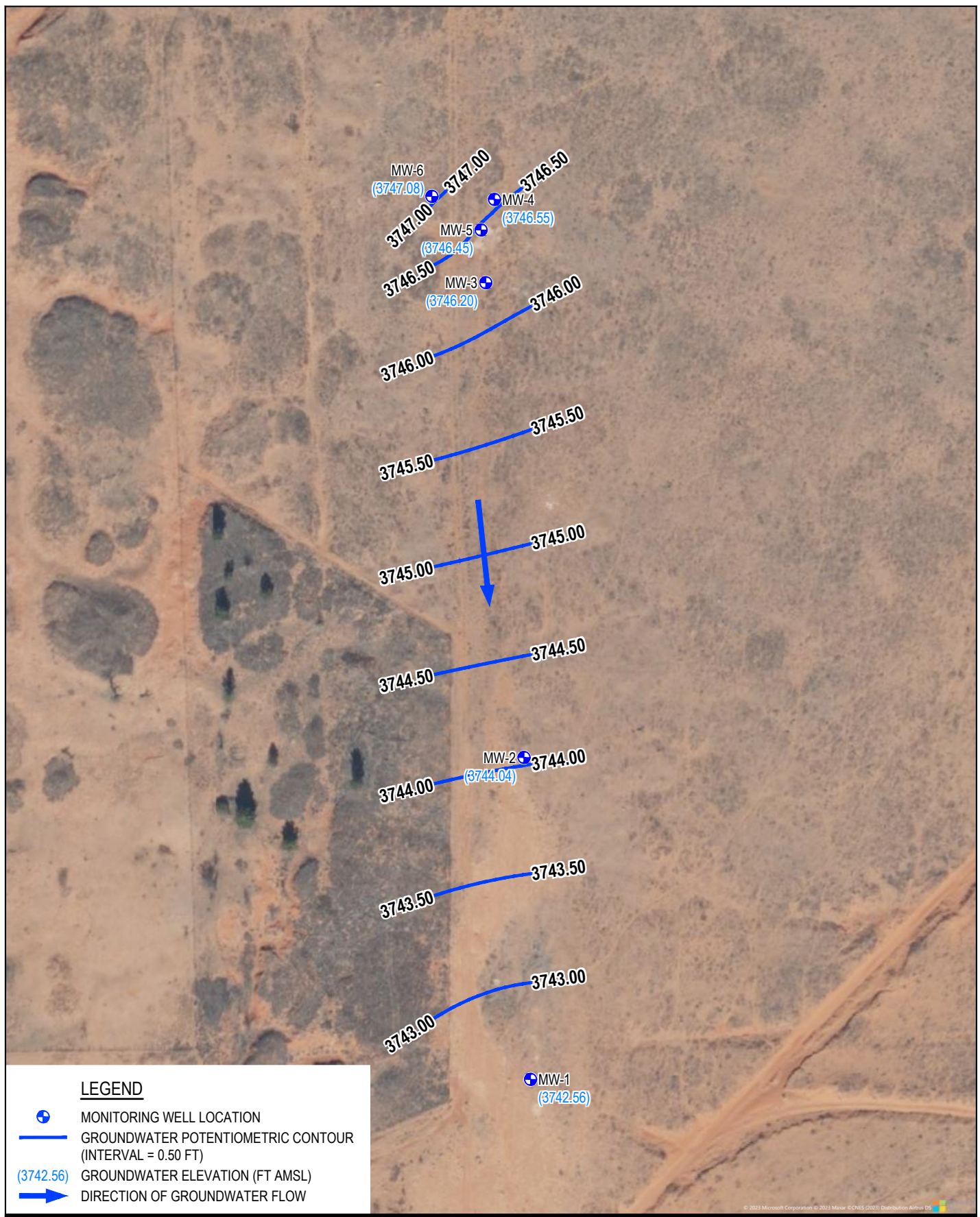
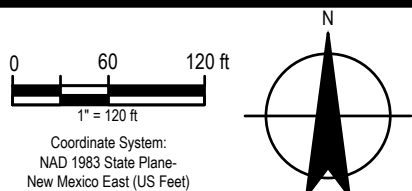
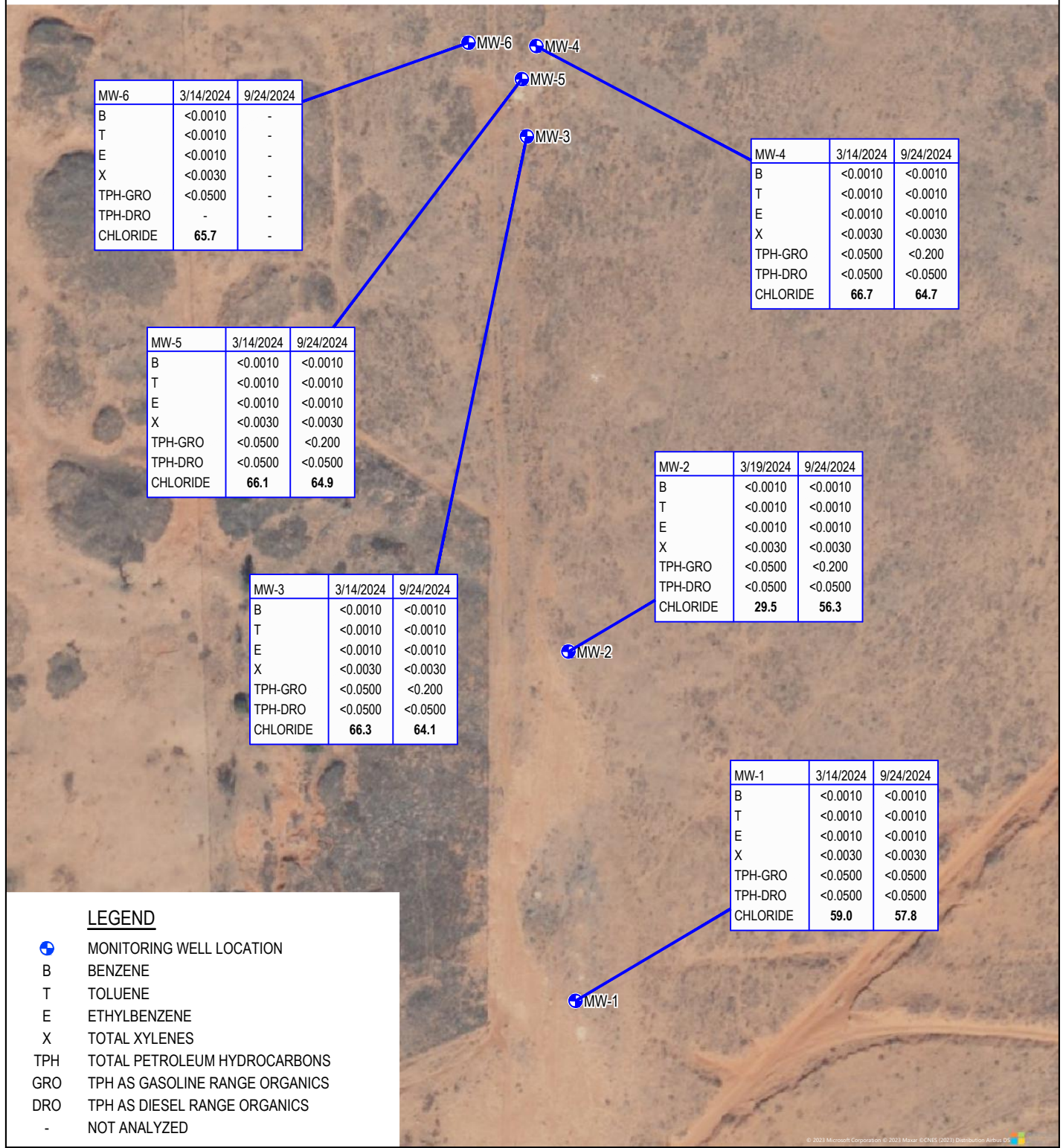


FIGURE 4

NOTES:

1. GROUNDWATER CONCENTRATION PRESENTED IN MILLIGRAMS PER LITER (mg/L).
2. BOLDDED CELLS INDICATE LABORATORY DETECTION OF ANALYTE.
3. HIGHLIGHTED CELLS INDICATE EXCEEDANCE OF THE RESPECTIVE NMWQCC STANDARD.
4. MW-6 CONTAINED INSUFFICIENT WELL VOLUME IN MARCH 2024 TO FILL ALL SAMPLE VIALS; THEREFORE, SAMPLE COLLECTED FROM MW-6 COULD NOT BE SUBMITTED FOR TPH-DRO ANALYSIS.
5. MW-6 CONTAINED INSUFFICIENT WELL VOLUME IN SEPTEMBER 2024; THEREFORE, NO GROUNDWATER SAMPLE WERE COLLECTED.



ETP CRUDE LLC
LEA COUNTY, NEW MEXICO
BRAHANEY GATHERING SYSTEM 8 INCH PIPELINE
NMOCD 1RP-2794

**COC CONCENTRATIONS IN
GROUNDWATER MAP (2024)**

Project No. **12660615**
Date **April 2025**

FIGURE 5

Appendices

Appendix A

Laboratory Analytical Reports



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

March 26, 2024

Chris Knight
GHD
11451 Katy Fwy
Suite 400
Houston, TX 77079

Work Order: **HS24030884**

Laboratory Results for: **12621862 - ET Brahaney Gathering System**

Dear Chris Knight,

ALS Environmental received 6 sample(s) on Mar 16, 2024 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
luis.aguilar

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
Work Order: HS24030884

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24030884-01	MW-1-20240314	Groundwater		14-Mar-2024 11:50	16-Mar-2024 08:15	☐
HS24030884-02	MW-3-20240314	Groundwater		14-Mar-2024 13:50	16-Mar-2024 08:15	☐
HS24030884-03	MW-4-20240314	Groundwater		14-Mar-2024 15:00	16-Mar-2024 08:15	☐
HS24030884-04	MW-5-20240314	Groundwater		14-Mar-2024 14:20	16-Mar-2024 08:15	☐
HS24030884-05	MW-6-20240314	Groundwater		14-Mar-2024 12:30	16-Mar-2024 08:15	☐
HS24030884-06	Trip Blank	Water	CG-011824 -116	14-Mar-2024 00:00	16-Mar-2024 08:15	☒

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
Work Order: HS24030884

CASE NARRATIVE**Work Order Comments**

- Login Comments: Sample MW-6 received 4 vials empty and only 2 vials with sample. 1 of the vials had an air bubble. Sample MW-6 collection time on COC and sample label differ. COC: 12:30, Label: 11:30. Sample MW-1 collection time on COC and sample label differ. COC: 11:50, Label: 10:50. Both samples logged in according to COC.

GC Semivolatiles by Method SW8015M**Batch ID: 209129**

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

GC Volatiles by Method SW8015**Batch ID: R462163,R462190**

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

GCMS Volatiles by Method SW8260**Batch ID: R461698**

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

WetChemistry by Method E300**Batch ID: R462049**

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

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
Sample ID: MW-1-20240314
Collection Date: 14-Mar-2024 11:50

ANALYTICAL REPORT

WorkOrder:HS24030884
Lab ID:HS24030884-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 01:24
Ethylbenzene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 01:24
Toluene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 01:24
Xylenes, Total	< 0.0030		0.0030	mg/L	1	20-Mar-2024 01:24
Surr: 1,2-Dichloroethane-d4	116		70-126	%REC	1	20-Mar-2024 01:24
Surr: 4-Bromofluorobenzene	86.5		77-113	%REC	1	20-Mar-2024 01:24
Surr: Dibromofluoromethane	100		77-123	%REC	1	20-Mar-2024 01:24
Surr: Toluene-d8	101		82-127	%REC	1	20-Mar-2024 01:24
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: TS		
Gasoline Range Organics	< 0.0500		0.0500	mg/L	1	25-Mar-2024 19:20
Surr: 4-Bromofluorobenzene	107		70-123	%REC	1	25-Mar-2024 19:20
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 20-Mar-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	21-Mar-2024 12:08
Surr: 2-Fluorobiphenyl	66.8		60-135	%REC	1	21-Mar-2024 12:08
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	59.0		0.500	mg/L	1	24-Mar-2024 11:29

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

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
Sample ID: MW-3-20240314
Collection Date: 14-Mar-2024 13:50

ANALYTICAL REPORT

WorkOrder:HS24030884
Lab ID:HS24030884-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 01:46
Ethylbenzene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 01:46
Toluene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 01:46
Xylenes, Total	< 0.0030		0.0030	mg/L	1	20-Mar-2024 01:46
Surr: 1,2-Dichloroethane-d4	117		70-126	%REC	1	20-Mar-2024 01:46
Surr: 4-Bromofluorobenzene	84.1		77-113	%REC	1	20-Mar-2024 01:46
Surr: Dibromofluoromethane	103		77-123	%REC	1	20-Mar-2024 01:46
Surr: Toluene-d8	99.2		82-127	%REC	1	20-Mar-2024 01:46
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: TS		
Gasoline Range Organics	< 0.0500		0.0500	mg/L	1	25-Mar-2024 19:34
Surr: 4-Bromofluorobenzene	106		70-123	%REC	1	25-Mar-2024 19:34
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 20-Mar-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	21-Mar-2024 10:55
Surr: 2-Fluorobiphenyl	64.5		60-135	%REC	1	21-Mar-2024 10:55
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	66.3		0.500	mg/L	1	24-Mar-2024 11:47

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

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
Sample ID: MW-4-20240314
Collection Date: 14-Mar-2024 15:00

ANALYTICAL REPORT

WorkOrder:HS24030884
Lab ID:HS24030884-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 02:08
Ethylbenzene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 02:08
Toluene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 02:08
Xylenes, Total	< 0.0030		0.0030	mg/L	1	20-Mar-2024 02:08
Surr: 1,2-Dichloroethane-d4	118		70-126	%REC	1	20-Mar-2024 02:08
Surr: 4-Bromofluorobenzene	86.2		77-113	%REC	1	20-Mar-2024 02:08
Surr: Dibromofluoromethane	101		77-123	%REC	1	20-Mar-2024 02:08
Surr: Toluene-d8	105		82-127	%REC	1	20-Mar-2024 02:08
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: TS		
Gasoline Range Organics	< 0.0500		0.0500	mg/L	1	25-Mar-2024 19:48
Surr: 4-Bromofluorobenzene	109		70-123	%REC	1	25-Mar-2024 19:48
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 20-Mar-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	21-Mar-2024 11:19
Surr: 2-Fluorobiphenyl	74.3		60-135	%REC	1	21-Mar-2024 11:19
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	66.7		0.500	mg/L	1	24-Mar-2024 12:23

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

ALS Houston, US

Date: 26-Mar-24

Client:	GHD	ANALYTICAL REPORT
Project:	12621862 - ET Brahaney Gathering System	WorkOrder:HS24030884
Sample ID:	MW-5-20240314	Lab ID:HS24030884-04
Collection Date:	14-Mar-2024 14:20	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 02:30
Ethylbenzene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 02:30
Toluene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 02:30
Xylenes, Total	< 0.0030		0.0030	mg/L	1	20-Mar-2024 02:30
Surr: 1,2-Dichloroethane-d4	116		70-126	%REC	1	20-Mar-2024 02:30
Surr: 4-Bromofluorobenzene	84.2		77-113	%REC	1	20-Mar-2024 02:30
Surr: Dibromofluoromethane	101		77-123	%REC	1	20-Mar-2024 02:30
Surr: Toluene-d8	99.5		82-127	%REC	1	20-Mar-2024 02:30
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: TS		
Gasoline Range Organics	< 0.0500		0.0500	mg/L	1	25-Mar-2024 20:01
Surr: 4-Bromofluorobenzene	108		70-123	%REC	1	25-Mar-2024 20:01
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 20-Mar-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	21-Mar-2024 11:45
Surr: 2-Fluorobiphenyl	66.9		60-135	%REC	1	21-Mar-2024 11:45
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	66.1		0.500	mg/L	1	24-Mar-2024 12:29

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

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
Sample ID: MW-6-20240314
Collection Date: 14-Mar-2024 12:30

ANALYTICAL REPORT

WorkOrder:HS24030884
Lab ID:HS24030884-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 02:53
Ethylbenzene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 02:53
Toluene	< 0.0010		0.0010	mg/L	1	20-Mar-2024 02:53
Xylenes, Total	< 0.0030		0.0030	mg/L	1	20-Mar-2024 02:53
Surr: 1,2-Dichloroethane-d4	120		70-126	%REC	1	20-Mar-2024 02:53
Surr: 4-Bromofluorobenzene	83.5		77-113	%REC	1	20-Mar-2024 02:53
Surr: Dibromofluoromethane	104		77-123	%REC	1	20-Mar-2024 02:53
Surr: Toluene-d8	102		82-127	%REC	1	20-Mar-2024 02:53
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: TS		
Gasoline Range Organics	< 0.0500		0.0500	mg/L	1	25-Mar-2024 23:02
Surr: 4-Bromofluorobenzene	114		70-123	%REC	1	25-Mar-2024 23:02
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	65.7		0.500	mg/L	1	24-Mar-2024 12:35

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

Weight / Prep Log

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24030884

Batch ID: 209129	Start Date: 20 Mar 2024 13:30	End Date: 20 Mar 2024 13:30
Method: AQPREP: 3510C TPH	Prep Code: 8015WPR_LL	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030884-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24030884-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24030884-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24030884-04	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24030884

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 209129 (0)		Test Name : DIESEL RANGE ORGANICS BY SW8015C			Matrix: Groundwater	
HS24030884-01	MW-1-20240314	14 Mar 2024 11:50		20 Mar 2024 13:30	21 Mar 2024 12:08	1
HS24030884-02	MW-3-20240314	14 Mar 2024 13:50		20 Mar 2024 13:30	21 Mar 2024 10:55	1
HS24030884-03	MW-4-20240314	14 Mar 2024 15:00		20 Mar 2024 13:30	21 Mar 2024 11:19	1
HS24030884-04	MW-5-20240314	14 Mar 2024 14:20		20 Mar 2024 13:30	21 Mar 2024 11:45	1
Batch ID: R461698 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS24030884-01	MW-1-20240314	14 Mar 2024 11:50			20 Mar 2024 01:24	1
HS24030884-02	MW-3-20240314	14 Mar 2024 13:50			20 Mar 2024 01:46	1
HS24030884-03	MW-4-20240314	14 Mar 2024 15:00			20 Mar 2024 02:08	1
HS24030884-04	MW-5-20240314	14 Mar 2024 14:20			20 Mar 2024 02:30	1
HS24030884-05	MW-6-20240314	14 Mar 2024 12:30			20 Mar 2024 02:53	1
Batch ID: R462049 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Groundwater	
HS24030884-01	MW-1-20240314	14 Mar 2024 11:50			24 Mar 2024 11:29	1
HS24030884-02	MW-3-20240314	14 Mar 2024 13:50			24 Mar 2024 11:47	1
HS24030884-03	MW-4-20240314	14 Mar 2024 15:00			24 Mar 2024 12:23	1
HS24030884-04	MW-5-20240314	14 Mar 2024 14:20			24 Mar 2024 12:29	1
HS24030884-05	MW-6-20240314	14 Mar 2024 12:30			24 Mar 2024 12:35	1
Batch ID: R462163 (0)		Test Name : GASOLINE RANGE ORGANICS BY SW8015C			Matrix: Groundwater	
HS24030884-01	MW-1-20240314	14 Mar 2024 11:50			25 Mar 2024 19:20	1
HS24030884-02	MW-3-20240314	14 Mar 2024 13:50			25 Mar 2024 19:34	1
HS24030884-03	MW-4-20240314	14 Mar 2024 15:00			25 Mar 2024 19:48	1
HS24030884-04	MW-5-20240314	14 Mar 2024 14:20			25 Mar 2024 20:01	1
Batch ID: R462190 (0)		Test Name : GASOLINE RANGE ORGANICS BY SW8015C			Matrix: Groundwater	
HS24030884-05	MW-6-20240314	14 Mar 2024 12:30			25 Mar 2024 23:02	1

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24030884

QC BATCH REPORT

Batch ID: 209129 (0)		Instrument: FID-22		Method: DIESEL RANGE ORGANICS BY SW8015C						
MBLK	Sample ID: MBLK-209129	Units: mg/L		Analysis Date: 21-Mar-2024 12:40						
Client ID:	Run ID: FID-22_462080	SeqNo: 7905072		PrepDate: 20-Mar-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	< 0.0500	0.0500								
Surr: 2-Fluorobiphenyl	0.08151	0.00500	0.1	0	81.5	60 - 135				
LCS	Sample ID: LCS-209129	Units: mg/L		Analysis Date: 21-Mar-2024 11:19						
Client ID:	Run ID: FID-22_462080	SeqNo: 7905070		PrepDate: 20-Mar-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	0.8723	0.0500	1	0	87.2	70 - 130				
Surr: 2-Fluorobiphenyl	0.08205	0.00500	0.1	0	82.0	60 - 135				
LCSD	Sample ID: LCSD-209129	Units: mg/L		Analysis Date: 21-Mar-2024 11:45						
Client ID:	Run ID: FID-22_462080	SeqNo: 7905071		PrepDate: 20-Mar-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	0.8732	0.0500	1	0	87.3	70 - 130	0.8723	0.11	20	
Surr: 2-Fluorobiphenyl	0.08652	0.00500	0.1	0	86.5	60 - 135	0.08205	5.3	20	
The following samples were analyzed in this batch:										
HS24030884-01		HS24030884-02		HS24030884-03		HS24030884-04				

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24030884

QC BATCH REPORT

Batch ID: R462163 (0)		Instrument: FID-20		Method: GASOLINE RANGE ORGANICS BY SW8015C						
MBLK	Sample ID: MBLK-240325	Units: mg/L		Analysis Date: 25-Mar-2024 15:38						
Client ID:	Run ID: FID-20_462163		SeqNo: 7906458		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.0500	0.0500								
Surr: 4-Bromofluorobenzene	0.1074	0.00500	0.1	0	107	70 - 121				
LCS	Sample ID: LCS-240325	Units: mg/L		Analysis Date: 25-Mar-2024 15:10						
Client ID:	Run ID: FID-20_462163		SeqNo: 7906456		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.113	0.0500	1	0	111	76 - 124				
Surr: 4-Bromofluorobenzene	0.09957	0.00500	0.1	0	99.6	52 - 138				
LCSD	Sample ID: LCSD-240325	Units: mg/L		Analysis Date: 25-Mar-2024 15:24						
Client ID:	Run ID: FID-20_462163		SeqNo: 7906457		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.202	0.0500	1	0	120	76 - 124	1.113	7.71	20	
Surr: 4-Bromofluorobenzene	0.1021	0.00500	0.1	0	102	52 - 138	0.09957	2.54	20	
The following samples were analyzed in this batch:										
HS24030884-01		HS24030884-02		HS24030884-03		HS24030884-04				

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24030884

QC BATCH REPORT

Batch ID: R462190 (0)		Instrument: FID-20		Method: GASOLINE RANGE ORGANICS BY SW8015C						
MBLK	Sample ID: MBLK-240325	Units: mg/L		Analysis Date: 25-Mar-2024 22:48						
Client ID:	Run ID: FID-20_462190	SeqNo: 7907569		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.0500	0.0500								
Surr: 4-Bromofluorobenzene	0.1036	0.00500	0.1	0	104	70 - 121				
LCS	Sample ID: LCS-240325	Units: mg/L		Analysis Date: 25-Mar-2024 22:20						
Client ID:	Run ID: FID-20_462190	SeqNo: 7907567		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.055	0.0500	1	0	105	76 - 124				
Surr: 4-Bromofluorobenzene	0.09286	0.00500	0.1	0	92.9	52 - 138				
LCSD	Sample ID: LCSD-240325	Units: mg/L		Analysis Date: 25-Mar-2024 22:34						
Client ID:	Run ID: FID-20_462190	SeqNo: 7907568		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.012	0.0500	1	0	101	76 - 124	1.055	4.13	20	
Surr: 4-Bromofluorobenzene	0.09201	0.00500	0.1	0	92.0	52 - 138	0.09286	0.922	20	
MS	Sample ID: HS24030876-02MS	Units: mg/L		Analysis Date: 26-Mar-2024 04:08						
Client ID:	Run ID: FID-20_462190	SeqNo: 7907590		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.129	0.0500	1	0	113	70 - 130				
Surr: 4-Bromofluorobenzene	0.1079	0.00500	0.1	0	108	70 - 123				
MS	Sample ID: HS24030839-01MS	Units: mg/L		Analysis Date: 26-Mar-2024 04:50						
Client ID:	Run ID: FID-20_462190	SeqNo: 7907593		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.052	0.0500	1	0	105	70 - 130				
Surr: 4-Bromofluorobenzene	0.09485	0.00500	0.1	0	94.9	70 - 123				

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Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24030884

QC BATCH REPORT

Batch ID: R462190 (0)		Instrument: FID-20		Method: GASOLINE RANGE ORGANICS BY SW8015C						
MSD	Sample ID: HS24030876-02MSD	Units: mg/L		Analysis Date: 26-Mar-2024 04:22						
Client ID:	Run ID: FID-20_462190		SeqNo: 7907591		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.121	0.0500	1	0	112	70 - 130	1.129	0.744	20	
Surr: 4-Bromofluorobenzene	0.1148	0.00500	0.1	0	115	70 - 123	0.1079	6.28	20	

MSD	Sample ID: HS24030839-01MSD	Units: mg/L		Analysis Date: 26-Mar-2024 05:03						
Client ID:	Run ID: FID-20_462190		SeqNo: 7907594		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.154	0.0500	1	0	115	70 - 130	1.052	9.16	20	
Surr: 4-Bromofluorobenzene	0.1098	0.00500	0.1	0	110	70 - 123	0.09485	14.6	20	

The following samples were analyzed in this batch: HS24030884-05

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Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24030884

QC BATCH REPORT

Batch ID: R461698 (0)		Instrument: VOA11		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-240319	Units: ug/L		Analysis Date: 19-Mar-2024 21:42					
Client ID:	Run ID: VOA11_461698	SeqNo: 7896456		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	< 1.0	1.0							
Ethylbenzene	< 1.0	1.0							
Toluene	< 1.0	1.0							
Xylenes, Total	< 3.0	3.0							
Surr: 1,2-Dichloroethane-d4	52.83	1.0	50	0	106	70 - 123			
Surr: 4-Bromofluorobenzene	47.68	1.0	50	0	95.4	77 - 113			
Surr: Dibromofluoromethane	48.64	1.0	50	0	97.3	73 - 126			
Surr: Toluene-d8	51.93	1.0	50	0	104	81 - 120			

LCS	Sample ID: VLCSW-240319	Units: ug/L		Analysis Date: 19-Mar-2024 20:36					
Client ID:	Run ID: VOA11_461698	SeqNo: 7896454		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	21.61	1.0	20	0	108	74 - 120			
Ethylbenzene	22.14	1.0	20	0	111	77 - 117			
Toluene	22.86	1.0	20	0	114	77 - 118			
Xylenes, Total	65.32	3.0	60	0	109	75 - 122			
Surr: 1,2-Dichloroethane-d4	50.95	1.0	50	0	102	70 - 123			
Surr: 4-Bromofluorobenzene	46.72	1.0	50	0	93.4	77 - 113			
Surr: Dibromofluoromethane	48.3	1.0	50	0	96.6	73 - 126			
Surr: Toluene-d8	51.97	1.0	50	0	104	81 - 120			

LCSD	Sample ID: VLCSDW-240319	Units: ug/L		Analysis Date: 19-Mar-2024 20:58					
Client ID:	Run ID: VOA11_461698	SeqNo: 7896455		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.43	1.0	20	0	102	74 - 120	21.61	5.6	20
Ethylbenzene	21.5	1.0	20	0	108	77 - 117	22.14	2.93	20
Toluene	21.99	1.0	20	0	110	77 - 118	22.86	3.87	20
Xylenes, Total	63.19	3.0	60	0	105	75 - 122	65.32	3.31	20
Surr: 1,2-Dichloroethane-d4	51.56	1.0	50	0	103	70 - 123	50.95	1.18	20
Surr: 4-Bromofluorobenzene	46.78	1.0	50	0	93.6	77 - 113	46.72	0.139	20
Surr: Dibromofluoromethane	47.93	1.0	50	0	95.9	73 - 126	48.3	0.772	20
Surr: Toluene-d8	51.68	1.0	50	0	103	81 - 120	51.97	0.56	20

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24030884

QC BATCH REPORT

Batch ID: R461698 (0)		Instrument: VOA11		Method: LOW LEVEL VOLATILES BY SW8260C					
MS		Sample ID: HS24030876-02MS		Units: ug/L		Analysis Date: 20-Mar-2024 05:37			
Client ID:		Run ID: VOA11_461698		SeqNo: 7896477		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	21.46	1.0	20	0	107	70 - 127			
Ethylbenzene	20.83	1.0	20	0	104	70 - 124			
Toluene	21.48	1.0	20	0	107	70 - 123			
Xylenes, Total	60.68	3.0	60	0	101	70 - 130			
Surr: 1,2-Dichloroethane-d4	51.66	1.0	50	0	103	70 - 126			
Surr: 4-Bromofluorobenzene	44.96	1.0	50	0	89.9	77 - 113			
Surr: Dibromofluoromethane	47.29	1.0	50	0	94.6	77 - 123			
Surr: Toluene-d8	49.84	1.0	50	0	99.7	82 - 127			

MSD		Sample ID: HS24030876-02MSD		Units: ug/L		Analysis Date: 20-Mar-2024 06:00			
Client ID:		Run ID: VOA11_461698		SeqNo: 7896478		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.56	1.0	20	0	103	70 - 127	21.46	4.28	20
Ethylbenzene	19.31	1.0	20	0	96.5	70 - 124	20.83	7.57	20
Toluene	20.9	1.0	20	0	105	70 - 123	21.48	2.72	20
Xylenes, Total	58.21	3.0	60	0	97.0	70 - 130	60.68	4.14	20
Surr: 1,2-Dichloroethane-d4	50.87	1.0	50	0	102	70 - 126	51.66	1.55	20
Surr: 4-Bromofluorobenzene	42.73	1.0	50	0	85.5	77 - 113	44.96	5.1	20
Surr: Dibromofluoromethane	46.82	1.0	50	0	93.6	77 - 123	47.29	0.996	20
Surr: Toluene-d8	49.69	1.0	50	0	99.4	82 - 127	49.84	0.294	20

The following samples were analyzed in this batch:

HS24030884-01	HS24030884-02	HS24030884-03	HS24030884-04
HS24030884-05			

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24030884

QC BATCH REPORT

Batch ID: R462049 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 24-Mar-2024 10:42					
Client ID:	Run ID: ICS-Integrion_462049		SeqNo: 7904293		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 0.500	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 24-Mar-2024 10:59					
Client ID:	Run ID: ICS-Integrion_462049		SeqNo: 7904294		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.87	0.500	20	0	104	90 - 110				
MS	Sample ID: HS24031333-01MS	Units: mg/L			Analysis Date: 24-Mar-2024 11:11					
Client ID:	Run ID: ICS-Integrion_462049		SeqNo: 7904296		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	18.67	0.500	10	8.559	101	80 - 120				
MS	Sample ID: HS24030884-01MS	Units: mg/L			Analysis Date: 24-Mar-2024 11:35					
Client ID: MW-1-20240314	Run ID: ICS-Integrion_462049		SeqNo: 7904300		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	67.62	0.500	10	59.01	86.1	80 - 120				C
MSD	Sample ID: HS24031333-01MSD	Units: mg/L			Analysis Date: 24-Mar-2024 11:17					
Client ID:	Run ID: ICS-Integrion_462049		SeqNo: 7904297		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	18.88	0.500	10	8.559	103	80 - 120	18.67	1.12	20	
MSD	Sample ID: HS24030884-01MSD	Units: mg/L			Analysis Date: 24-Mar-2024 11:41					
Client ID: MW-1-20240314	Run ID: ICS-Integrion_462049		SeqNo: 7904301		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	68.44	0.500	10	59.01	94.3	80 - 120	67.62	1.21	20	C
The following samples were analyzed in this batch:										
		HS24030884-01		HS24030884-02		HS24030884-03		HS24030884-04		
		HS24030884-05								

ALS Houston, US

Date: 26-Mar-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24030884

**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: 26-Mar-24

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L22-90-R2	31-Mar-2024
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 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 26-Mar-24

Sample Receipt Checklist

Work Order ID: HS24030884

Date/Time Received: 16-Mar-2024 08:15

Client Name: GHDHouston

Received by: Paresh M. Giga

Completed By: /S/ Monica Smith	18-Mar-2024 10:14	Reviewed by: /S/ luis.aguilar	18-Mar-2024 12:29
eSignature	Date/Time	eSignature	Date/Time

Matrices: GroundwaterCarrier 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:309625
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):

4.2 UC/4.1 C IR31

Cooler(s)/Kit(s):

51611

Date/Time sample(s) sent to storage:

03/18/2024 1015

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: Login Comment: MW-6 8015 (2) voa bottles empty, MW-6 8260 (2) voa bottles empty,an air bubble in the 3rd 8015 GRO voa bottle.The sx time on the bottles for MW-1 says 1050, the COC says 1150.The sx time on the bottles for MW-6 says 1130,the coc says 1230.

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: 309625

HS24030884

GHD

12621862 - ET Brahaney Gathering System



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	E-19002-GL-26050008 Stacy Boul	Project Name	12621862 - ET Brahaney Gathering	A 8260_LL_W (8260 STEX)
Work Order		Project Number	12621862	B 8015_GRO_W (8015 TPH-GRO)
Company Name	GHD	Bill To Company	Energy Transfer	C 8015M_DRO_W
Send Report To	Chris Knight	Invoice Attn	Stacy Boultinghouse	D 300_W (300 Chloride)
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	Christopher.Knight@ghd.com	e-Mail Address	Stacy.Boultinghouse@energytransfer.co	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1-20240314	3/14/24	1150	GW	8	8	X	X	X	X							
2	MW-3-20240314	↓	1350	GW	8	8	X	X	X	X							
3	MW-4-20240314	↓	1500	GW	8	8	X	X	X	X							
4	MW-5-20240314	↓	1420	GW	8	8	X	X	X	X							
5	MW-6-20240314	↓	1230	GW	8	3	X	X		X							
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Elizabeth Fain</i>		Shipment Method <i>Fed Ex Order</i>		Required Turnaround Time: (Check Box) ☒ STC 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:	
Relinquished by: <i>[Signature]</i>	Date: <i>3/15/24</i>	Time: <i>1100</i>	Received by: <i>[Signature]</i>		Notes: 12621862 - ET Brahaney Gathering System				
Relinquished by:	Date:	Time:	Received by (Laboratory): <i>3/16/24 08:15</i>		Cooler ID <i>51611</i>	Cooler Temp. <i>4.20</i>	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		☒ Level II Std QC	☐ TRRP Checklist			
					☐ Level III Std QC/Raw Data	☐ TRRP Level IV			
					☐ Level IV SWM/CLP	☐ Other			
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.

Copyright 2011 by ALS Environmental.

Ref: ALS Date: 13Mar24 SHIPPING: 0.00
 Dep: Wgt: 30.00 LBS SPECIAL: 0.00
 DV: 0.00 HANDLING: 0.00
 TOTAL: 0.00

Svc: FIRST OVERNIGHT Master 6662 6803 1286
 TRK: 6662 6803 1286



**Must Deliver Next Business Day
 Time and Temperature Sensitive!**

Part # 15969-454 ANTI EXP C128 *

ORIGIN ID: SGRA (505) 934-0902
 SIMON KOZIK
 GND
 6121 INDIAN SCHOOL ROAD SUITE 200
 ALBUQUERQUE, NM 87110
 UNITED STATES US

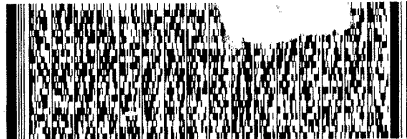
SHIP DATE: 13MAR24
 ACTWGT: 30.00 LB MAN
 CAD: 0221247/CAFE3755
 DIMS: 26x14x14 IN

TO **SAMPLE RECEIVING
 ALS GROUP USA, CORP
 10450 STANCLIFF ROAD
 SUITE 210
 HOUSTON TX 77099**

(281) 530-5656

REF: ALS

RMA: 111111



**FedEx
 Express**



**RETURNS MON-SAT
 FIRST OVERNIGHT**

TRK# 6662 6803 1286
 0221

77099

TX-US



ALS
 10450 Stancliff Rd., Suite
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

210

CUSTODY SEAL

Date: 3/15/24 Time: 11:00
 Name: E. KOZIK
 Company: CHTD

Used Broken By: _____
 Date: _____



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

April 01, 2024

Chris Knight
GHD
11451 Katy Fwy
Suite 400
Houston, TX 77079

Work Order: **HS24031297**

Laboratory Results for: **12621862 - ET Brahaney Gathering System**

Dear Chris Knight,

ALS Environmental received 2 sample(s) on Mar 21, 2024 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
luis.aguilar

ALS Houston, US

Date: 01-Apr-24

Client:	GHD	SAMPLE SUMMARY
Project:	12621862 - ET Brahaney Gathering System	
Work Order:	HS24031297	

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24031297-01	12621862-SK-20240319-MW-2	Groundwater		19-Mar-2024 17:15	21-Mar-2024 08:00	☐
HS24031297-02	Trip Blank	Water	cg-011824-63	19-Mar-2024 00:00	21-Mar-2024 08:00	☒

ALS Houston, US

Date: 01-Apr-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
Work Order: HS24031297

CASE NARRATIVE

GC Semivolatiles by Method SW8015M**Batch ID: 209403**

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

GC Volatiles by Method SW8015**Batch ID: R462711**

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

GCMS Volatiles by Method SW8260**Batch ID: R462067****Sample ID: VLCSW-240324**

- Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

WetChemistry by Method E300**Batch ID: R462049**

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

ALS Houston, US

Date: 01-Apr-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
Sample ID: 12621862-SK-20240319-MW-2
Collection Date: 19-Mar-2024 17:15

ANALYTICAL REPORT

WorkOrder:HS24031297
Lab ID:HS24031297-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: TS		
Benzene	< 0.0010		0.0010	mg/L	1	25-Mar-2024 04:57
Ethylbenzene	< 0.0010		0.0010	mg/L	1	25-Mar-2024 04:57
Toluene	< 0.0010		0.0010	mg/L	1	25-Mar-2024 04:57
Xylenes, Total	< 0.0030		0.0030	mg/L	1	25-Mar-2024 04:57
Surr: 1,2-Dichloroethane-d4	85.8		70-126	%REC	1	25-Mar-2024 04:57
Surr: 4-Bromofluorobenzene	87.1		77-113	%REC	1	25-Mar-2024 04:57
Surr: Dibromofluoromethane	83.9		77-123	%REC	1	25-Mar-2024 04:57
Surr: Toluene-d8	87.2		82-127	%REC	1	25-Mar-2024 04:57
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: TS		
Gasoline Range Organics	< 0.0500		0.0500	mg/L	1	29-Mar-2024 20:32
Surr: 4-Bromofluorobenzene	111		70-123	%REC	1	29-Mar-2024 20:32
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 26-Mar-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	28-Mar-2024 11:23
Surr: 2-Fluorobiphenyl	69.7		60-135	%REC	1	28-Mar-2024 11:23
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	29.5		0.500	mg/L	1	24-Mar-2024 13:04

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

Weight / Prep Log

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24031297

Batch ID: 209403	Start Date: 26 Mar 2024 08:07	End Date: 26 Mar 2024 08:07
Method: AQPREP: 3510C TPH	Prep Code: 8015WPR_LL	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031297-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

ALS Houston, US

Date: 01-Apr-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24031297

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 209403 (1)		Test Name : DIESEL RANGE ORGANICS BY SW8015C			Matrix: Groundwater	
HS24031297-01	12621862-SK-20240319-MW- 2	19 Mar 2024 17:15		26 Mar 2024 08:07	28 Mar 2024 11:23	1
Batch ID: R462049 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Groundwater	
HS24031297-01	12621862-SK-20240319-MW- 2	19 Mar 2024 17:15			24 Mar 2024 13:04	1
Batch ID: R462067 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS24031297-01	12621862-SK-20240319-MW- 2	19 Mar 2024 17:15			25 Mar 2024 04:57	1
Batch ID: R462711 (0)		Test Name : GASOLINE RANGE ORGANICS BY SW8015C			Matrix: Groundwater	
HS24031297-01	12621862-SK-20240319-MW- 2	19 Mar 2024 17:15			29 Mar 2024 20:32	1

ALS Houston, US

Date: 01-Apr-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24031297

QC BATCH REPORT

Batch ID: 209403 (1)		Instrument: FID23		Method: DIESEL RANGE ORGANICS BY SW8015C						
MBLK	Sample ID: MBLK-209403	Units: mg/L		Analysis Date: 28-Mar-2024 10:13						
Client ID:	Run ID: FID23_462498		SeqNo: 7914266		PrepDate: 26-Mar-2024		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	< 0.0500	0.0500								
Surr: 2-Fluorobiphenyl	0.07544	0.00500	0.1	0	75.4	60 - 135				
LCS	Sample ID: LCS-209403	Units: mg/L		Analysis Date: 28-Mar-2024 10:36						
Client ID:	Run ID: FID23_462498		SeqNo: 7914267		PrepDate: 26-Mar-2024		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	0.9813	0.0500	1	0	98.1	70 - 130				
Surr: 2-Fluorobiphenyl	0.09399	0.00500	0.1	0	94.0	60 - 135				
LCSD	Sample ID: LCSD-209403	Units: mg/L		Analysis Date: 28-Mar-2024 11:00						
Client ID:	Run ID: FID23_462498		SeqNo: 7914268		PrepDate: 26-Mar-2024		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	0.9925	0.0500	1	0	99.3	70 - 130	0.9813	1.14	20	
Surr: 2-Fluorobiphenyl	0.09281	0.00500	0.1	0	92.8	60 - 135	0.09399	1.26	20	
The following samples were analyzed in this batch: HS24031297-01										

ALS Houston, US

Date: 01-Apr-24

Client: GHD
 Project: 12621862 - ET Brahaney Gathering System
 WorkOrder: HS24031297

QC BATCH REPORT

Batch ID: R462711 (0)		Instrument: FID-20		Method: GASOLINE RANGE ORGANICS BY SW8015C						
MBLK	Sample ID: MBLK-240329	Units: mg/L		Analysis Date: 29-Mar-2024 17:18						
Client ID:	Run ID: FID-20_462711		SeqNo: 7918971		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.0500	0.0500								
Surr: 4-Bromofluorobenzene	0.1029	0.00500	0.1	0	103	70 - 121				
LCS	Sample ID: LCS-240329	Units: mg/L		Analysis Date: 29-Mar-2024 16:50						
Client ID:	Run ID: FID-20_462711		SeqNo: 7918969		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.023	0.0500	1	0	102	76 - 124				
Surr: 4-Bromofluorobenzene	0.09525	0.00500	0.1	0	95.2	52 - 138				
LCSD	Sample ID: LCSD-240329	Units: mg/L		Analysis Date: 29-Mar-2024 17:04						
Client ID:	Run ID: FID-20_462711		SeqNo: 7918970		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.046	0.0500	1	0	105	76 - 124	1.023	2.23	20	
Surr: 4-Bromofluorobenzene	0.09468	0.00500	0.1	0	94.7	52 - 138	0.09525	0.598	20	
The following samples were analyzed in this batch: HS24031297-01										

ALS Houston, US

Date: 01-Apr-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24031297

QC BATCH REPORT

Batch ID: R462067 (0)		Instrument: VOA9		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-240324	Units: ug/L		Analysis Date: 25-Mar-2024 00:26					
Client ID:	Run ID: VOA9_462067	SeqNo: 7904783		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	< 1.0	1.0							
Ethylbenzene	< 1.0	1.0							
Toluene	< 1.0	1.0							
Xylenes, Total	< 3.0	3.0							
Surr: 1,2-Dichloroethane-d4	40.83	1.0	50	0	81.7	70 - 123			
Surr: 4-Bromofluorobenzene	42.57	1.0	50	0	85.1	77 - 113			
Surr: Dibromofluoromethane	40.82	1.0	50	0	81.6	73 - 126			
Surr: Toluene-d8	43.44	1.0	50	0	86.9	81 - 120			

LCS	Sample ID: VLCSW-240324	Units: ug/L		Analysis Date: 24-Mar-2024 23:19					
Client ID:	Run ID: VOA9_462067	SeqNo: 7904781		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	17.44	1.0	20	0	87.2	74 - 120			
Ethylbenzene	17.64	1.0	20	0	88.2	77 - 117			
Toluene	17.08	1.0	20	0	85.4	77 - 118			
Xylenes, Total	53.22	3.0	60	0	88.7	75 - 122			
Surr: 1,2-Dichloroethane-d4	40.74	1.0	50	0	81.5	70 - 123			
Surr: 4-Bromofluorobenzene	45.25	1.0	50	0	90.5	77 - 113			
Surr: Dibromofluoromethane	43.1	1.0	50	0	86.2	73 - 126			
Surr: Toluene-d8	43.8	1.0	50	0	87.6	81 - 120			

LCSD	Sample ID: VLCSDW-240324	Units: ug/L		Analysis Date: 24-Mar-2024 23:41					
Client ID:	Run ID: VOA9_462067	SeqNo: 7904782		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	16.69	1.0	20	0	83.5	74 - 120	17.44	4.38	20
Ethylbenzene	16.41	1.0	20	0	82.1	77 - 117	17.64	7.25	20
Toluene	15.71	1.0	20	0	78.5	77 - 118	17.08	8.39	20
Xylenes, Total	49.07	3.0	60	0	81.8	75 - 122	53.22	8.12	20
Surr: 1,2-Dichloroethane-d4	40.1	1.0	50	0	80.2	70 - 123	40.74	1.57	20
Surr: 4-Bromofluorobenzene	44.91	1.0	50	0	89.8	77 - 113	45.25	0.756	20
Surr: Dibromofluoromethane	41.14	1.0	50	0	82.3	73 - 126	43.1	4.65	20
Surr: Toluene-d8	43.73	1.0	50	0	87.5	81 - 120	43.8	0.144	20

ALS Houston, US

Date: 01-Apr-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24031297

QC BATCH REPORT

Batch ID: R462067 (0) Instrument: VOA9 Method: LOW LEVEL VOLATILES BY SW8260C

The following samples were analyzed in this batch: HS24031297-01

ALS Houston, US

Date: 01-Apr-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24031297

QC BATCH REPORT

Batch ID: R462049 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L		Analysis Date: 24-Mar-2024 10:42						
Client ID:	Run ID: ICS-Integrion_462049		SeqNo: 7904293		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 0.500	0.500								
LCS	Sample ID: LCS	Units: mg/L		Analysis Date: 24-Mar-2024 10:59						
Client ID:	Run ID: ICS-Integrion_462049		SeqNo: 7904294		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.87	0.500	20	0	104	90 - 110				
MS	Sample ID: HS24031333-01MS	Units: mg/L		Analysis Date: 24-Mar-2024 11:11						
Client ID:	Run ID: ICS-Integrion_462049		SeqNo: 7904296		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	18.67	0.500	10	8.559	101	80 - 120				
MS	Sample ID: HS24030884-01MS	Units: mg/L		Analysis Date: 24-Mar-2024 11:35						
Client ID:	Run ID: ICS-Integrion_462049		SeqNo: 7904300		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	67.62	0.500	10	59.01	86.1	80 - 120				O
MSD	Sample ID: HS24031333-01MSD	Units: mg/L		Analysis Date: 24-Mar-2024 11:17						
Client ID:	Run ID: ICS-Integrion_462049		SeqNo: 7904297		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	18.88	0.500	10	8.559	103	80 - 120	18.67	1.12	20	
MSD	Sample ID: HS24030884-01MSD	Units: mg/L		Analysis Date: 24-Mar-2024 11:41						
Client ID:	Run ID: ICS-Integrion_462049		SeqNo: 7904301		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	68.44	0.500	10	59.01	94.3	80 - 120	67.62	1.21	20	O
The following samples were analyzed in this batch: HS24031297-01										

ALS Houston, US

Date: 01-Apr-24

Client: GHD
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24031297

**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: 01-Apr-24

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919; 2024	30-Apr-2024
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 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 01-Apr-24

Sample Receipt Checklist

Work Order ID: HS24031297

Date/Time Received: 21-Mar-2024 08:00

Client Name: GHDHouston

Received by: Paresh M. Giga

Completed By: /S/ Belinda Gomez	22-Mar-2024 17:43	Reviewed by: /S/ luis.aguilar	26-Mar-2024 07:52
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:309624
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):	1.8uc/1.7 ir31		
Cooler(s)/Kit(s):	44895		
Date/Time sample(s) sent to storage:	3/22/241744		
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 5336Fort Collins, CO
+1 970 490 1511Everett, WA
+1 425 356 2600Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 309624

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

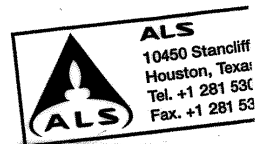
Customer Information		Project Information		Parameter/Method Request for Analysis																
Purchase Order	E-19002-GL-25050008 Stacy Boul	Project Name	12621862 - ET Brahaney Gathering	A	8260_LL_W (8260 BTEX)															
Work Order		Project Number	12621862	B	8015 GRO_W (8015 TPH-GRO)															
Company Name	GHD	Bill To Company	Energy Transfer	C	8015M_DRO_W															
Send Report To	Chris Knight	Invoice Attn	Stacy Boultinghouse	D	300_W (300 Chloride)															
Address	11451 Katy Fwy Suite 400	Address	P.O Box 132400	E	HS24031297 GHD 12621862 - ET Brahaney Gathering System 															
				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	Christopher.Knight@ghd.com	e-Mail Address	Stacy.Boultinghouse@energytransfer.com	J																
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	12621862-SK-20240319-MW-2	3/19/24	1715	GW	8	8	X	X	X	X										
2	trip blank	3/19/24	---	---	8	2														
3	temp blank	3/19/24	---	---	8	1														
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Other				Results Due Date:								
Simon Kozik / Elizabeth Fain		FedEx cooler		☒ STC 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour																
Relinquished by:		Date:	Time:	Received by:		Notes: 12621862 - ET Brahaney Gathering System														
Elizabeth Fain		3/22/24	1415	-																
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)												
-				3/21/24 08:00		44895	31.0	☒	Level II Std QC											
-				-			1.80	☐	Level III Std QC/Raw Data											
-				-			4.31	☐	Level IV SW846/CLP											
-				-			CLIP-01	☐	Other											
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.

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Rd., Suite 210
s 77099
5656
0 5887

CUSTODY SEAL

Date: 3/20/24 Time: 4:15
Name: E. F. F. F.
Company: C.A.D.

Seal Broken
Date: 3/20/24

Ref: ALS
Dep:

Date: 13Mar24
Wgt: 30.00 LBS
DV:

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svc: FIRST OVERNIGHT Master 6862 6803 1286
TRK: 6862 6803 1286



Must Deliver Next Business Day
Time and Temperature Sensitive!

Print # 15806-454 INTV EXP 07/28

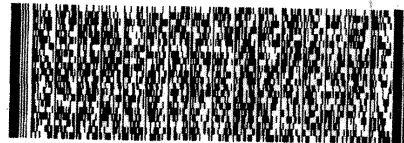
ORIGIN ID: SORA (505) 934-0902
SIMON KOZIK
SHD
6121 INDIAN SCHOOL ROAD SUITE 200
ALBUQUERQUE, NM 87110
UNITED STATES US

SHIP DATE: 13MAR24
ACTWGT: 30.00 LB MAN
CAD: 0221247/CAFE3755
DIMS: 26x14x14 IN

TO
SAMPLE RECEIVING
ALS GROUP USA, CORP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099

(281) 530-6666
REF: ALS

RMA: 011111



FedEx
Express



TRK# 6862 6803 1286
0221

RETURNS MON-SAT
FIRST OVERNIGHT

77099

TX-US





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

October 01, 2024

Chris Knight
GHDHouston
11451 Katy Freeway
Suite 400
Houston, TX 77079

Work Order: **HS24091319**

Laboratory Results for: **12621862 - ET Brahaney Gathering System**

Dear Chris Knight,

ALS Environmental received 7 sample(s) on Sep 25, 2024 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
Alexis Dorenbosch

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
Work Order: HS24091319

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24091319-01	MW-2-20240924	GW		24-Sep-2024 10:05	25-Sep-2024 10:10	☐
HS24091319-02	MW-3-20240924	GW		24-Sep-2024 11:50	25-Sep-2024 10:10	☐
HS24091319-03	MW-4-20240924	GW		24-Sep-2024 13:00	25-Sep-2024 10:10	☐
HS24091319-04	MW-5-20240924	GW		24-Sep-2024 14:20	25-Sep-2024 10:10	☐
HS24091319-05	MW-1-20240924	GW		24-Sep-2024 15:20	25-Sep-2024 10:10	☐
HS24091319-06	DUP-01	GW		24-Sep-2024 00:00	25-Sep-2024 10:10	☐
HS24091319-07	Trip Blank	Water	CG-080224-283	24-Sep-2024 00:00	25-Sep-2024 10:10	☒

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
Work Order: HS24091319

CASE NARRATIVE

GC Semivolatiles by Method SW8015M**Batch ID: 218214**

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

GC Volatiles by Method SW8015**Batch ID: R478593**

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

GCMS Volatiles by Method SW8260**Batch ID: R478326****Sample ID: VLCSW-240926**

- Ethylbenzene and Toluene failed outside of QC control limits high. Samples are ND.
- Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

WetChemistry by Method E300**Batch ID: R478588**

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

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
Sample ID: MW-2-20240924
Collection Date: 24-Sep-2024 10:05

ANALYTICAL REPORT

WorkOrder:HS24091319
Lab ID:HS24091319-01
Matrix:GW

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: TS		
Benzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 13:48
Ethylbenzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 13:48
Toluene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 13:48
Xylenes, Total	< 0.0030		0.0030	mg/L	1	26-Sep-2024 13:48
Surr: 1,2-Dichloroethane-d4	102		70-126	%REC	1	26-Sep-2024 13:48
Surr: 4-Bromofluorobenzene	105		77-113	%REC	1	26-Sep-2024 13:48
Surr: Dibromofluoromethane	101		77-123	%REC	1	26-Sep-2024 13:48
Surr: Toluene-d8	99.8		82-127	%REC	1	26-Sep-2024 13:48
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: LC		
Gasoline Range Organics	< 0.200		0.200	mg/L	1	30-Sep-2024 14:03
Surr: 4-Bromofluorobenzene	121		70-123	%REC	1	30-Sep-2024 14:03
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 28-Sep-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	30-Sep-2024 12:07
Surr: 2-Fluorobiphenyl	65.9		60-135	%REC	1	30-Sep-2024 12:07
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	56.3		0.500	mg/L	1	30-Sep-2024 12:03

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

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
Sample ID: MW-3-20240924
Collection Date: 24-Sep-2024 11:50

ANALYTICAL REPORT

WorkOrder:HS24091319
Lab ID:HS24091319-02
Matrix:GW

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: TS		
Benzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 14:11
Ethylbenzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 14:11
Toluene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 14:11
Xylenes, Total	< 0.0030		0.0030	mg/L	1	26-Sep-2024 14:11
Surr: 1,2-Dichloroethane-d4	99.3		70-126	%REC	1	26-Sep-2024 14:11
Surr: 4-Bromofluorobenzene	104		77-113	%REC	1	26-Sep-2024 14:11
Surr: Dibromofluoromethane	98.9		77-123	%REC	1	26-Sep-2024 14:11
Surr: Toluene-d8	99.9		82-127	%REC	1	26-Sep-2024 14:11
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: LC		
Gasoline Range Organics	< 0.200		0.200	mg/L	1	30-Sep-2024 14:17
Surr: 4-Bromofluorobenzene	122		70-123	%REC	1	30-Sep-2024 14:17
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 28-Sep-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	30-Sep-2024 12:30
Surr: 2-Fluorobiphenyl	69.3		60-135	%REC	1	30-Sep-2024 12:30
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	64.1		0.500	mg/L	1	30-Sep-2024 12:21

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

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
Sample ID: MW-4-20240924
Collection Date: 24-Sep-2024 13:00

ANALYTICAL REPORT

WorkOrder:HS24091319
Lab ID:HS24091319-03
Matrix:GW

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: TS		
Benzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 14:33
Ethylbenzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 14:33
Toluene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 14:33
Xylenes, Total	< 0.0030		0.0030	mg/L	1	26-Sep-2024 14:33
Surr: 1,2-Dichloroethane-d4	98.1		70-126	%REC	1	26-Sep-2024 14:33
Surr: 4-Bromofluorobenzene	103		77-113	%REC	1	26-Sep-2024 14:33
Surr: Dibromofluoromethane	102		77-123	%REC	1	26-Sep-2024 14:33
Surr: Toluene-d8	98.5		82-127	%REC	1	26-Sep-2024 14:33
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: LC		
Gasoline Range Organics	< 0.200		0.200	mg/L	1	30-Sep-2024 14:30
Surr: 4-Bromofluorobenzene	120		70-123	%REC	1	30-Sep-2024 14:30
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 28-Sep-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	30-Sep-2024 12:53
Surr: 2-Fluorobiphenyl	77.8		60-135	%REC	1	30-Sep-2024 12:53
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	64.7		0.500	mg/L	1	30-Sep-2024 12:50

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

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
Sample ID: MW-5-20240924
Collection Date: 24-Sep-2024 14:20

ANALYTICAL REPORT

WorkOrder:HS24091319
Lab ID:HS24091319-04
Matrix:GW

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: TS		
Benzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 14:55
Ethylbenzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 14:55
Toluene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 14:55
Xylenes, Total	< 0.0030		0.0030	mg/L	1	26-Sep-2024 14:55
Surr: 1,2-Dichloroethane-d4	98.0		70-126	%REC	1	26-Sep-2024 14:55
Surr: 4-Bromofluorobenzene	104		77-113	%REC	1	26-Sep-2024 14:55
Surr: Dibromofluoromethane	102		77-123	%REC	1	26-Sep-2024 14:55
Surr: Toluene-d8	98.6		82-127	%REC	1	26-Sep-2024 14:55
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: LC		
Gasoline Range Organics	< 0.200		0.200	mg/L	1	30-Sep-2024 14:44
Surr: 4-Bromofluorobenzene	121		70-123	%REC	1	30-Sep-2024 14:44
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 28-Sep-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	30-Sep-2024 13:17
Surr: 2-Fluorobiphenyl	77.9		60-135	%REC	1	30-Sep-2024 13:17
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	64.9		0.500	mg/L	1	30-Sep-2024 12:56

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

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
Sample ID: MW-1-20240924
Collection Date: 24-Sep-2024 15:20

ANALYTICAL REPORT

WorkOrder:HS24091319
Lab ID:HS24091319-05
Matrix:GW

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: TS		
Benzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 15:18
Ethylbenzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 15:18
Toluene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 15:18
Xylenes, Total	< 0.0030		0.0030	mg/L	1	26-Sep-2024 15:18
Surr: 1,2-Dichloroethane-d4	96.7		70-126	%REC	1	26-Sep-2024 15:18
Surr: 4-Bromofluorobenzene	102		77-113	%REC	1	26-Sep-2024 15:18
Surr: Dibromofluoromethane	99.7		77-123	%REC	1	26-Sep-2024 15:18
Surr: Toluene-d8	98.2		82-127	%REC	1	26-Sep-2024 15:18
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: LC		
Gasoline Range Organics	< 0.200		0.200	mg/L	1	30-Sep-2024 14:58
Surr: 4-Bromofluorobenzene	121		70-123	%REC	1	30-Sep-2024 14:58
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 28-Sep-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	30-Sep-2024 13:40
Surr: 2-Fluorobiphenyl	77.5		60-135	%REC	1	30-Sep-2024 13:40
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	57.8		0.500	mg/L	1	30-Sep-2024 13:02

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

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
Sample ID: DUP-01
Collection Date: 24-Sep-2024 00:00

ANALYTICAL REPORT

WorkOrder:HS24091319
Lab ID:HS24091319-06
Matrix:GW

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: TS		
Benzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 15:40
Ethylbenzene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 15:40
Toluene	< 0.0010		0.0010	mg/L	1	26-Sep-2024 15:40
Xylenes, Total	< 0.0030		0.0030	mg/L	1	26-Sep-2024 15:40
Surr: 1,2-Dichloroethane-d4	98.5		70-126	%REC	1	26-Sep-2024 15:40
Surr: 4-Bromofluorobenzene	104		77-113	%REC	1	26-Sep-2024 15:40
Surr: Dibromofluoromethane	99.6		77-123	%REC	1	26-Sep-2024 15:40
Surr: Toluene-d8	99.8		82-127	%REC	1	26-Sep-2024 15:40
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: LC		
Gasoline Range Organics	< 0.200		0.200	mg/L	1	30-Sep-2024 15:11
Surr: 4-Bromofluorobenzene	122		70-123	%REC	1	30-Sep-2024 15:11
DIESEL RANGE ORGANICS BY SW8015C		Method:SW8015M		Prep:SW3510C / 28-Sep-2024 Analyst: SAM		
DRO (>C10 - C28)	< 0.0500		0.0500	mg/L	1	30-Sep-2024 14:03
Surr: 2-Fluorobiphenyl	74.5		60-135	%REC	1	30-Sep-2024 14:03
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	58.1		0.500	mg/L	1	30-Sep-2024 13:08

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

Weight / Prep Log

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24091319

Batch ID: 218214	Start Date: 28 Sep 2024 13:13	End Date: 28 Sep 2024 13:13
Method: AQPREP: 3510C TPH	Prep Code: 8015WPR_LL	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24091319-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24091319-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24091319-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24091319-04	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24091319-05	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24091319-06	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24091319

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 218214 (1)		Test Name : DIESEL RANGE ORGANICS BY SW8015C			Matrix: GW	
HS24091319-01	MW-2-20240924	24 Sep 2024 10:05		28 Sep 2024 13:13	30 Sep 2024 12:07	1
HS24091319-02	MW-3-20240924	24 Sep 2024 11:50		28 Sep 2024 13:13	30 Sep 2024 12:30	1
HS24091319-03	MW-4-20240924	24 Sep 2024 13:00		28 Sep 2024 13:13	30 Sep 2024 12:53	1
HS24091319-04	MW-5-20240924	24 Sep 2024 14:20		28 Sep 2024 13:13	30 Sep 2024 13:17	1
HS24091319-05	MW-1-20240924	24 Sep 2024 15:20		28 Sep 2024 13:13	30 Sep 2024 13:40	1
HS24091319-06	DUP-01	24 Sep 2024 00:00		28 Sep 2024 13:13	30 Sep 2024 14:03	1
Batch ID: R478326 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: GW	
HS24091319-01	MW-2-20240924	24 Sep 2024 10:05			26 Sep 2024 13:48	1
HS24091319-02	MW-3-20240924	24 Sep 2024 11:50			26 Sep 2024 14:11	1
HS24091319-03	MW-4-20240924	24 Sep 2024 13:00			26 Sep 2024 14:33	1
HS24091319-04	MW-5-20240924	24 Sep 2024 14:20			26 Sep 2024 14:55	1
HS24091319-05	MW-1-20240924	24 Sep 2024 15:20			26 Sep 2024 15:18	1
HS24091319-06	DUP-01	24 Sep 2024 00:00			26 Sep 2024 15:40	1
Batch ID: R478588 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: GW	
HS24091319-01	MW-2-20240924	24 Sep 2024 10:05			30 Sep 2024 12:03	1
HS24091319-02	MW-3-20240924	24 Sep 2024 11:50			30 Sep 2024 12:21	1
HS24091319-03	MW-4-20240924	24 Sep 2024 13:00			30 Sep 2024 12:50	1
HS24091319-04	MW-5-20240924	24 Sep 2024 14:20			30 Sep 2024 12:56	1
HS24091319-05	MW-1-20240924	24 Sep 2024 15:20			30 Sep 2024 13:02	1
HS24091319-06	DUP-01	24 Sep 2024 00:00			30 Sep 2024 13:08	1
Batch ID: R478593 (0)		Test Name : GASOLINE RANGE ORGANICS BY SW8015C			Matrix: GW	
HS24091319-01	MW-2-20240924	24 Sep 2024 10:05			30 Sep 2024 14:03	1
HS24091319-02	MW-3-20240924	24 Sep 2024 11:50			30 Sep 2024 14:17	1
HS24091319-03	MW-4-20240924	24 Sep 2024 13:00			30 Sep 2024 14:30	1
HS24091319-04	MW-5-20240924	24 Sep 2024 14:20			30 Sep 2024 14:44	1
HS24091319-05	MW-1-20240924	24 Sep 2024 15:20			30 Sep 2024 14:58	1
HS24091319-06	DUP-01	24 Sep 2024 00:00			30 Sep 2024 15:11	1

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24091319

QC BATCH REPORT

Batch ID: 218214 (1)		Instrument: FID-22		Method: DIESEL RANGE ORGANICS BY SW8015C					
MBLK	Sample ID: MBLK-218214	Units: mg/L		Analysis Date: 30-Sep-2024 11:44					
Client ID:	Run ID: FID-22_478586		SeqNo: 8282265		PrepDate: 28-Sep-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

DRO (>C10 - C28) < 0.0500 0.0500

Surr: 2-Fluorobiphenyl 0.08042 0.00500 0.1 0 80.4 60 - 135

LCS	Sample ID: LCS-218214	Units: mg/L		Analysis Date: 30-Sep-2024 12:07					
Client ID:	Run ID: FID-22_478586		SeqNo: 8282266		PrepDate: 28-Sep-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

DRO (>C10 - C28) 0.8598 0.0500 1 0 86.0 70 - 130

Surr: 2-Fluorobiphenyl 0.0827 0.00500 0.1 0 82.7 60 - 135

MS	Sample ID: HS24091250-06MS	Units: mg/L		Analysis Date: 30-Sep-2024 12:53					
Client ID:	Run ID: FID-22_478586		SeqNo: 8282268		PrepDate: 28-Sep-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

DRO (>C10 - C28) 0.8843 0.0500 1 0 88.4 70 - 130

Surr: 2-Fluorobiphenyl 0.0847 0.00500 0.1 0 84.7 60 - 135

MSD	Sample ID: HS24091250-06MSD	Units: mg/L		Analysis Date: 30-Sep-2024 13:17					
Client ID:	Run ID: FID-22_478586		SeqNo: 8282269		PrepDate: 28-Sep-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

DRO (>C10 - C28) 0.916 0.0500 1 0 91.6 70 - 130 0.8843 3.52 20

Surr: 2-Fluorobiphenyl 0.08575 0.00500 0.1 0 85.8 60 - 135 0.0847 1.24 20

The following samples were analyzed in this batch:

HS24091319-01	HS24091319-02	HS24091319-03	HS24091319-04
HS24091319-05	HS24091319-06		

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24091319

QC BATCH REPORT

Batch ID: R478593 (0)		Instrument: FID-20		Method: GASOLINE RANGE ORGANICS BY SW8015C					
MBLK	Sample ID: MBLK-240930	Units: mg/L		Analysis Date: 30-Sep-2024 11:47					
Client ID:	Run ID: FID-20_478593		SeqNo: 8282589		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Gasoline Range Organics < 0.200 0.200

Surr: 4-Bromofluorobenzene 0.1197 0.00500 0.1 0 120 70 - 121

LCS	Sample ID: LCS-240930	Units: mg/L		Analysis Date: 30-Sep-2024 11:20					
Client ID:	Run ID: FID-20_478593		SeqNo: 8282587		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Gasoline Range Organics 1.162 0.200 1 0 116 76 - 124

Surr: 4-Bromofluorobenzene 0.12 0.00500 0.1 0 120 52 - 138

LCSD	Sample ID: LCSD-240930	Units: mg/L		Analysis Date: 30-Sep-2024 11:34					
Client ID:	Run ID: FID-20_478593		SeqNo: 8282588		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Gasoline Range Organics 1.096 0.200 1 0 110 76 - 124 1.162 5.85 20

Surr: 4-Bromofluorobenzene 0.1194 0.00500 0.1 0 119 52 - 138 0.12 0.463 20

The following samples were analyzed in this batch:

HS24091319-01	HS24091319-02	HS24091319-03	HS24091319-04
HS24091319-05	HS24091319-06		

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24091319

QC BATCH REPORT

Batch ID: R478326 (0)		Instrument: VOA6		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-240926	Units: ug/L		Analysis Date: 26-Sep-2024 11:52					
Client ID:	Run ID: VOA6_478326	SeqNo: 8276690		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	< 1.0	1.0							
Ethylbenzene	< 1.0	1.0							
Toluene	< 1.0	1.0							
Xylenes, Total	< 3.0	3.0							
Surr: 1,2-Dichloroethane-d4	51.11	1.0	50	0	102	70 - 123			
Surr: 4-Bromofluorobenzene	50.04	1.0	50	0	100	77 - 113			
Surr: Dibromofluoromethane	50.82	1.0	50	0	102	73 - 126			
Surr: Toluene-d8	50.61	1.0	50	0	101	81 - 120			

LCS	Sample ID: VLCSW-240926	Units: ug/L		Analysis Date: 26-Sep-2024 10:45					
Client ID:	Run ID: VOA6_478326	SeqNo: 8276688		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	23.17	1.0	20	0	116	74 - 120			
Ethylbenzene	24.2	1.0	20	0	121	77 - 117			S
Toluene	24.34	1.0	20	0	122	77 - 118			S
Xylenes, Total	72.96	3.0	60	0	122	75 - 122			
Surr: 1,2-Dichloroethane-d4	49.41	1.0	50	0	98.8	70 - 123			
Surr: 4-Bromofluorobenzene	48.89	1.0	50	0	97.8	77 - 113			
Surr: Dibromofluoromethane	49.73	1.0	50	0	99.5	73 - 126			
Surr: Toluene-d8	49.52	1.0	50	0	99.0	81 - 120			

LCSD	Sample ID: VLCSDW-240926	Units: ug/L		Analysis Date: 26-Sep-2024 11:07					
Client ID:	Run ID: VOA6_478326	SeqNo: 8276689		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	22.69	1.0	20	0	113	74 - 120	23.17	2.09	20
Ethylbenzene	23.37	1.0	20	0	117	77 - 117	24.2	3.47	20
Toluene	23.75	1.0	20	0	119	77 - 118	24.34	2.44	20 S
Xylenes, Total	71.36	3.0	60	0	119	75 - 122	72.96	2.22	20
Surr: 1,2-Dichloroethane-d4	48.44	1.0	50	0	96.9	70 - 123	49.41	1.98	20
Surr: 4-Bromofluorobenzene	49.49	1.0	50	0	99.0	77 - 113	48.89	1.22	20
Surr: Dibromofluoromethane	49.59	1.0	50	0	99.2	73 - 126	49.73	0.277	20
Surr: Toluene-d8	49.61	1.0	50	0	99.2	81 - 120	49.52	0.182	20

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24091319

QC BATCH REPORT

Batch ID: R478326 (0)		Instrument: VOA6	Method: LOW LEVEL VOLATILES BY SW8260C	
The following samples were analyzed in this batch:		HS24091319-01	HS24091319-02	HS24091319-03
		HS24091319-05	HS24091319-06	HS24091319-04

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24091319

QC BATCH REPORT

Batch ID: R478588 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993					
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 30-Sep-2024 11:22				
Client ID:	Run ID: ICS-Integrion_478588		SeqNo: 8282242		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	< 0.500	0.500							
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 30-Sep-2024 11:34				
Client ID:	Run ID: ICS-Integrion_478588		SeqNo: 8282243		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	19.77	0.500	20	0	98.8	90 - 110			
MS	Sample ID: HS24091319-01MS	Units: mg/L			Analysis Date: 30-Sep-2024 12:09				
Client ID: MW-2-20240924	Run ID: ICS-Integrion_478588		SeqNo: 8282248		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	64.3	0.500	10	56.26	80.4	80 - 120	O		
MSD	Sample ID: HS24091319-01MSD	Units: mg/L			Analysis Date: 30-Sep-2024 12:15				
Client ID: MW-2-20240924	Run ID: ICS-Integrion_478588		SeqNo: 8282249		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	65.14	0.500	10	56.26	88.9	80 - 120	64.3	1.3 20	O
The following samples were analyzed in this batch:									
HS24091319-01			HS24091319-02		HS24091319-03		HS24091319-04		
HS24091319-05			HS24091319-06						

ALS Houston, US

Date: 01-Oct-24

Client: GHDHouston
Project: 12621862 - ET Brahaney Gathering System
WorkOrder: HS24091319

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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

<u>Acronym</u>	<u>Description</u>
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

<u>Unit Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

ALS Houston, US

Date: 01-Oct-24

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L24-240	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

ALS Houston, US

Date: 01-Oct-24

Sample Receipt Checklist

Work Order ID: HS24091319

Date/Time Received: 25-Sep-2024 10:10

Client Name: GHDHouston

Received by: Michael Lucio

Completed By: /S/ Hoa Tran

25-Sep-2024 20:29

Reviewed by: /S/ Alexis Dorenbosch

26-Sep-2024 10:19

eSignature

Date/Time

eSignature

Date/Time

Matrices: W

Carrier 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:313978

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):

1.8uc/1.8c

ir34

Cooler(s)/Kit(s):

52210

Date/Time sample(s) sent to storage:

09/25/2024 2035

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

Chain of Custody Form

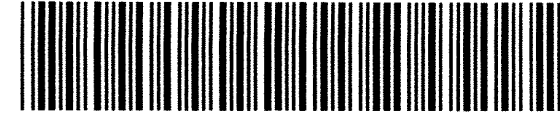
Page 1 of 2

COC ID: 313978

HS24091319

GHDHouston

12621862 - ET Brahaney Gathering System



Customer Information				Project Information				ALS Project Manager:												
Purchase Order	E-19002-GL-26050008 Stacy Boul			Project Name	12621862 - ET Brahaney Gathering			A	8260_LL_W (8260 BTEX)											
Work Order				Project Number	12621862			B	8015_GRO_W (8015 TPH-GRO)											
Company Name	GHD			Bill To Company	Energy Transfer			C	8015M_DRO_W											
Send Report To	Chris Knight			Invoice Attn	Stacy Boultinghouse			D	300_S (300 Chloride)											
Address	11451 Katy Fwy			Address	P.O Box 132400			E												
	Suite 400							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	Christopher.Knight@ghd.com			e-Mail Address	Stacy.Boultinghouse@energytransfer.com			J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-2-20240924	9/24	10:05	GW	2, 8	8	X	X	X	X							
2	MW-3-20240924	9/24	11:50	GW	2, 8	8	X	X	X	X							
3	MW-4-20240924	9/24	13:00	GW	2, 8	8	X	X	X	X							
4	MW-5-20240924	9/24	14:20	GW	2, 8	8	X	X	X	X							
5	MW-11-20240924	9/24	15:20	GW	2, 8	8	X	X	X	X							
6																	
7																	
8																	
9	Tri Blank																
10	DUP-61	9/24	X	GW	2, 8	8	X	X	X	X							

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:	
Johnson		Fedex		☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour					
Relinquished by:	Date:	Time:	Received by:	Notes:					
	9/24	16:50		12621862 - ET Brahaney Gathering System					
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)			
	9-25-24	10:10	ML	52210	1.8	☒ Level II Std GC ☐ TRPP Checklist			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	☐ Level III Std GC/PAW Data ☐ TRPP Level IV					
				☐ Level IV Sw/46/CLP ☐ Other					
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.

Seal Broken By: HT	CUSTODY SEAL	Date: 4/29/25	Name: [Signature]	Company: GHD
		Time: 16:40		
04/29/25				

	ALS	10450 Stanciliff Rd., Suite 210	Houston, Texas 77099	Tel. +1 281 530 5656	Fax: +1 281 530 5887



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 457946

CONDITIONS

Operator: ETP CRUDE LLC 8111 Westchester Drive Dallas, TX 75225	OGRID: 237722
	Action Number: 457946
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
shanna.smith	Submit Soil Matrix Work Plan under a different application within 30 days of this receipt.	8/15/2025
shanna.smith	Add constituents analyzed in GW for the soil laboratory analysis. i.e BTEX, TPH, Chloride, TDS and Sulfate	8/15/2025