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Midland, Texas 79707  
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January 22, 2026

Hilcorp Energy Company  
Attn: Mr. Billy Ginn  
Environmental Specialist  
1201 Louisiana Street  
Houston, Texas 77002

**Re: 2025 Annual Groundwater Monitoring Report  
North Monument G/SA Unit #1416  
Unit Letter J, Sec 36, T19S, R36E  
GPS Coordinates: 32.6142911°N, -103.3041812°W  
Lea County, New Mexico  
NMOCD Release Number: nAPP2112649963**

## **1. Introduction**

New Tech Global Environmental, LLC (NTGE) on behalf of Hilcorp Energy Company (Hilcorp), has prepared this Annual Groundwater Monitoring Report for submittal to the New Mexico Oil Conservation Division (NMOCD) District 1 in Hobbs, and Santa Fe, New Mexico for the North Monument G/SA Unit # 1416. This report presents the 2025 semi-annual laboratory analysis of groundwater samples collected from the three (3) monitor wells (MW-1, MW-2, and MW-3) located in Unit Letter J, Section 36, Township 19 South, Range 36 East, in Lea County, New Mexico. The geodetic position is latitude 32.6142911° N, longitude -103.3041812° W. See Figures 1 and 2 for Site Location and Topographic Maps.

## **2. Background**

On March 25, 2021, Apache Corporation (Apache) personnel (original owners of the facility) discovered the release, which was due to a failure on the fiberglass line releasing an unknown volume of crude oil and produced water. No fluids were recovered. On April 29, 2021, Apache provided email notification to the NMOCD (Mr. Jim Griswold and Mr. Mike Bratcher) after visually observing hydrocarbon staining with depth on the excavation sidewalls that confirmed a reportable quantity release. On May 6, 2021, Apache submitted the initial C-141 to the NMOCD District 1 office in Hobbs, New Mexico. Apache thought the release to be minor (less than 5 barrels) but since the volume of the release was unknown it was reported as a major release causing a delayed notification to the state. NMOCD assigned the release incident ID nAPP2112649963.

On May 24 and 25, 2021, Scarborough Drilling, Inc (SDI), under the supervision of Larson and Associates, Inc. (LAI), utilized an air rotary drilling rig to collect soil samples from five (5) locations, (SP-1 to SP-4, and Source) for delineation of the release. Samples were collected from SP-1 through SP-4 at ground surface and at five (5) foot (ft) intervals to twenty-five (25) ft below ground surface (bgs). An additional boring SB-1 was drilled to forty (40) ft bgs about 100 ft northwest from the Source to establish depth to groundwater (determined to be 35.3 ft bgs).

On July 16, 2021, Apache submitted the initial investigation data and a remediation plan to the NMOCD proposing in-situ soil remediation by RX Soil, Inc (RX) of Fort Worth, Texas for total petroleum hydrocarbons (TPH) in soil. As of this report, the NMOCD has not approved the proposed soil remediation

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January 22, 2026  
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workplan.

Between November 10, 2021, and September 6, 2023, three (3) two (2) inch monitor wells (MW-1 to MW-3) were installed by SDI utilizing an air rotary rig to depths ranging between 54.38' bgs (MW-1) and 55.65' bgs (MW-3). The wells were completed in accordance with ASTM D5092-10 (*Standard Practice for Design and Installation of Groundwater Monitoring Wells*) with 20 feet of 0.010-inch factory-slotted 2-inch schedule 40 screw-threaded screen positioned below and above the groundwater level observed during drilling activities. The remainder of the casing was installed from screen to surface with blank 2-inch schedule 40 PVC. Graded silica sand (8/16) was placed from base of the boring to about two (2) feet above the screen. The remainder of the annulus from the sand to 2 ½ ft bgs was filled with bentonite pellets that were hydrated with potable water. From 2 ½ feet to the surface the site was completed with concrete. The wells are secured with locking steel cover stick up mounts anchored in concrete with a 2-foot by 2-foot pad. Landpoint surveyed the wells for location and elevation, including ground surface and top of casing (TOC). Permits for drilling the monitor wells were granted by the surface owner, New Mexico State Land Office (NMSLO).

### **3. Groundwater Monitoring and Sampling Procedures**

NTGE was onsite to complete the semi-annual groundwater gauging and sampling events on June 25 and December 5, 2025. All three (3) monitor wells (MW-1, MW-2, and MW-3) were gauged, purged, and sampled in accordance with all appropriate local, state, and federal regulations. Prior to sampling, the wells were gauged to determine depth to static groundwater and measure Light Non-Aqueous Phase Liquids (LNAPL), if any. A minimum of three (3) well volumes (or wells bailed dry) were purged from each of the monitor wells without LNAPL, utilizing a new polyethylene bailer with the purge water placed into onsite fifty-five (55) gallon barrel steel drums. Once the groundwater was allowed to recharge to within 90% of the original gauging depth, samples were collected from each of the monitor wells with new disposal poly bailers and twine and placed into preserved laboratory provided sample containers. The groundwater samples from the wells without LNAPL (MW-2 and MW-3) were placed on ice and transported to Eurofins Laboratory of Midland, Texas for the June 2025 sampling event and Cardinal Laboratories (Cardinal) of Hobbs, New Mexico for the December 2025 sampling event and analyzed for BTEX by EPA Method 8260B and chlorides by EPA Method 300.0.

### **4. Groundwater Gradient and LNAPL Measurements**

On June 25 and December 5, 2025, NTGE was onsite to gauge each of the three (3) monitor wells. See Figure 3 for site monitoring well locations. Utilizing a water level indicator each of the wells were gauged from a mark on the north side of the well casing to depth of first encountered groundwater and the bottom of the well. The corrected groundwater depth was then calculated, and a gradient map developed. Figures 4A and 4B indicate the groundwater gradient at the site is to the southeast towards monitor well MW-2. This is consistent with previous gauging events at the site.

LNAPL was measured in monitor well MW-1 throughout the year with a measured thickness of 2.49 feet on June 25, 2025, and 0.04 feet on December 5, 2025. Measurable LNAPL has been present in the well since December 21, 2021, with average thickness pre-recovery (November 2025) efforts of 2.70 feet and 0.04 feet since recovery began.

### **5. Groundwater Sampling Results**

Analysis indicates that benzene concentrations exceeded the NMWQCC standards of 0.005 milligrams per liter (mg/L) for monitor well MW-3 with results of 0.154 mg/L (June 25, 2025) and 0.023 mg/L (December

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January 22, 2026  
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5, 2025). In addition, the chloride concentrations exceeded the NMWQCC standard of 250 mg/L for monitor well MW-2 with concentrations of 1,170 mg/L (June 25, 2025) and 1,440 mg/L (December 5, 2025). The Total Dissolved Solids (TDS) exceeded the NMWQCC standard of 1,000 mg/L for monitor wells MW-2 and MW-3 throughout the year with results ranging from 1,070 mg/L in MW-3 on June 5, 2025, to 3,440 mg/L in MW-2 on December 5, 2025. All remaining analyzed analytes were below the NMWQCC standards. See Table 2 for groundwater analytical results along with Figures 5A and 5B, Dissolved Concentration Map. See Appendix A for laboratory analytical results.

## **6. LNAPL Recovery**

On November 17, 2025, Hilcorp began passive and manual recovery efforts to remove the LNAPL in monitor well MW-1. A Geosorb Kit consisting of a 1.75" stainless steel screen with absorbent socks and associated cable wiring were placed in the monitor well for recovery efforts. Between November 17 and December 5, 2025, a total of 1.5 gallons of LNAPL were removed from the well with the spent absorbent socks placed in a steel 55-gallon drum located onsite. The well was then hand bailed with a disposable polyethylene bailer to enhance recovery with the free phase LNAPL, also stored in a 55-gallon steel drum onsite. Afterwards, new absorbent socks were placed in the well. Hilcorp plans to recover LNAPL at the site monthly. See Table 3 for calculated LNAPL recovery totals.

## **7. Proposed Monitor Well Installation and Delineation**

As of this report, the site groundwater does not appear to be delineated regarding LNAPL, benzene, chlorides or TDS. Hilcorp proposes installing four (4) monitor wells (PMW-4 through PMW-7) surrounding the existing wells to further delineate the groundwater and develop a more concise groundwater gradient at the site. The proposed monitor wells will be drilled by a licensed New Mexico driller with soil samples collected, and field screened. The soil sample with the highest photoionization detector (PID) reading and the sample directly above first encountered groundwater will be submitted to a New Mexico approved laboratory for analysis of BTEX, TPH and chloride. The wells will be installed with 2-inch diameter casing and 20 feet of 0.02" mesh screen, (approximately 15-feet into the underlying aquifer and 5-feet above aquifer to account for groundwater fluctuations). The wells will then be completed to the surface with 2-inch blank schedule 40 PVC pipe. The well will be sanded to 2-feet above the screen with bentonite slurry from the area 2-feet above screen to 2 ½ feet below ground surface. The well will then be completed to surface with concrete and a steel monument sleeve within a 3-foot by 3-foot pad. Once the wells have been completed, a New Mexico licensed land surveyor will be utilized to survey in the top of the casing, ground elevation, and surface pad in order to determine a more accurate groundwater gradient for the Site.. See Figure 6 for proposed monitor well locations.

## **8. Previously Proposed Apache Soil Remediation Plan**

As of this report, the site soil has not been remediated. Soil delineation was previously completed under Apache Corporation (Apache). In a report dated July 21, 2021, Apache proposed soil remediation at the site utilizing in-situ technology by RX Soil. As of this report, the NMOCD has neither granted approval nor rejected the proposed method of soil remediation. Hilcorp requests clarification from the NMOCD on a path forward for addressing the soil remediation at the site.

## **9. Conclusions and Recommendations**

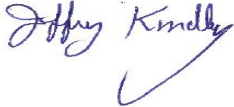
Based on the current groundwater results, the Site gradient appears to be southeast towards monitoring well MW-2 which is consistent with previous sampling events. In addition, analytical concentrations were above the NMWQCC standards for benzene in monitor well MW-3, chlorides in monitor well MW-2, and TDS in monitor wells MW-2 and MW-3 throughout the year. All remaining analytes are below the NMWQCC

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standards. LNAPL has consistently been measured in monitor well MW-1 throughout the year with monthly product recovery beginning in November 2025. NTGE suggests continuing semi-annual sampling of the site, monthly LNAPL recovery, installation of additional monitor wells, and clarification from the NMOCD for a path forward on the formerly proposed soil remediation plan.

If you have any questions regarding this report or need additional information, please contact us at 432-766-1918.

Sincerely,  
**NTG Environmental**



Jeff Kindley, P.G  
Senior Project Manager/Geologist

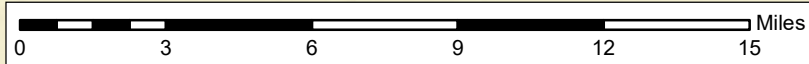
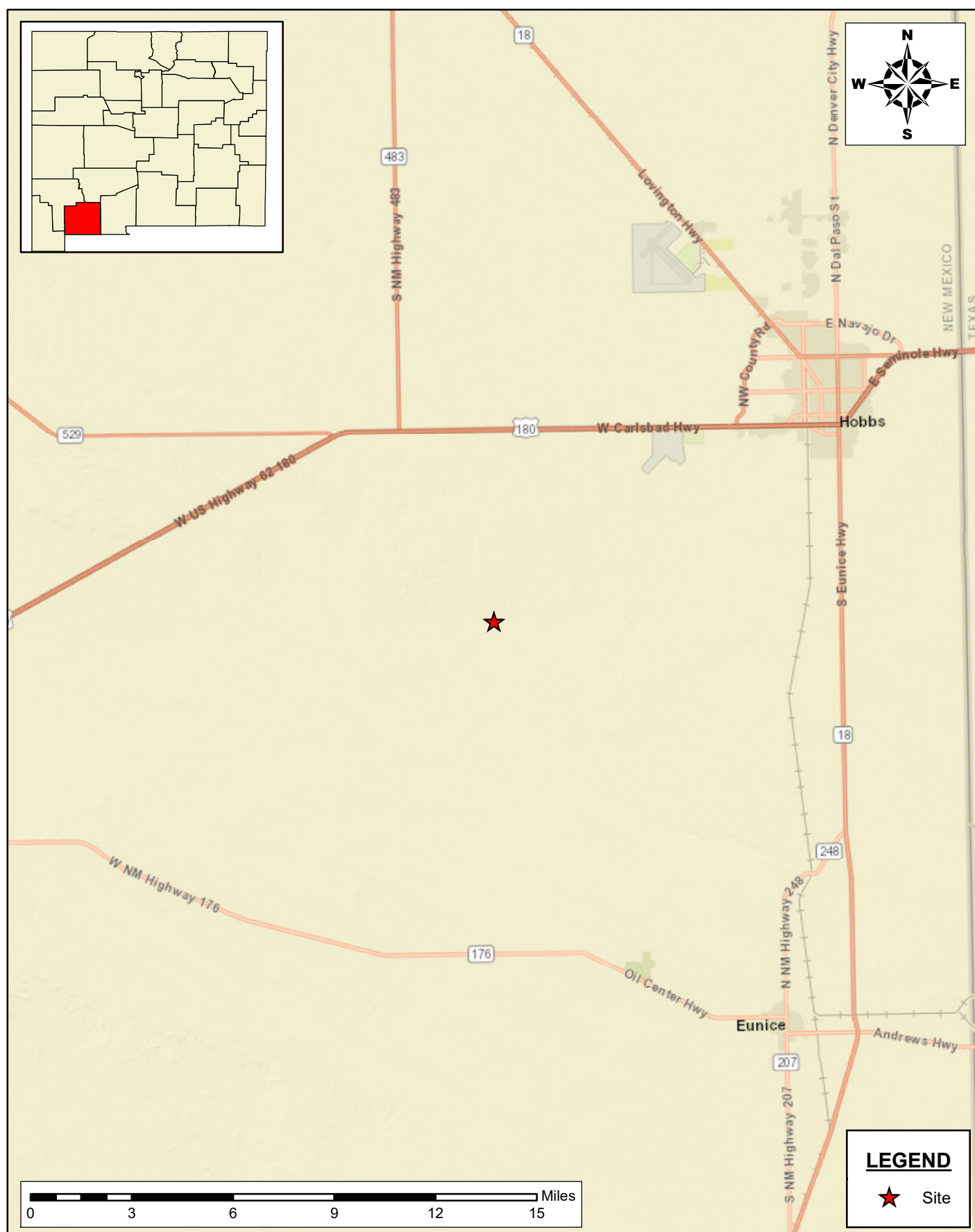
Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Monitor Well Location Map
- Figure 4A – Groundwater Gradient Map (June 25, 2025)
- Figure 4B – Groundwater Gradient Map (December 5, 2025)
- Figure 5A – Hydrocarbon Concentration Map (June 25, 2025)
- Figure 5B – Hydrocarbon Concentration Map (December 5, 2025)
- Figure 6 – Proposed Monitor Well Locations
- Table 1 – Groundwater Elevation Data
- Table 2 – Groundwater Analytical Data
- Appendix A: - Laboratory Analytical Reports and Chain-of-Custody Documentation

## **FIGURES**

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**LEGEND**

★ Site

**SITE LOCATION MAP**  
**SITE CHARACTERIZATION**  
 HILCORP ENERGY  
 NMGSAU WELL #1416  
 LEA COUNTY, NEW MEXICO  
 32.614291° -103.304181°

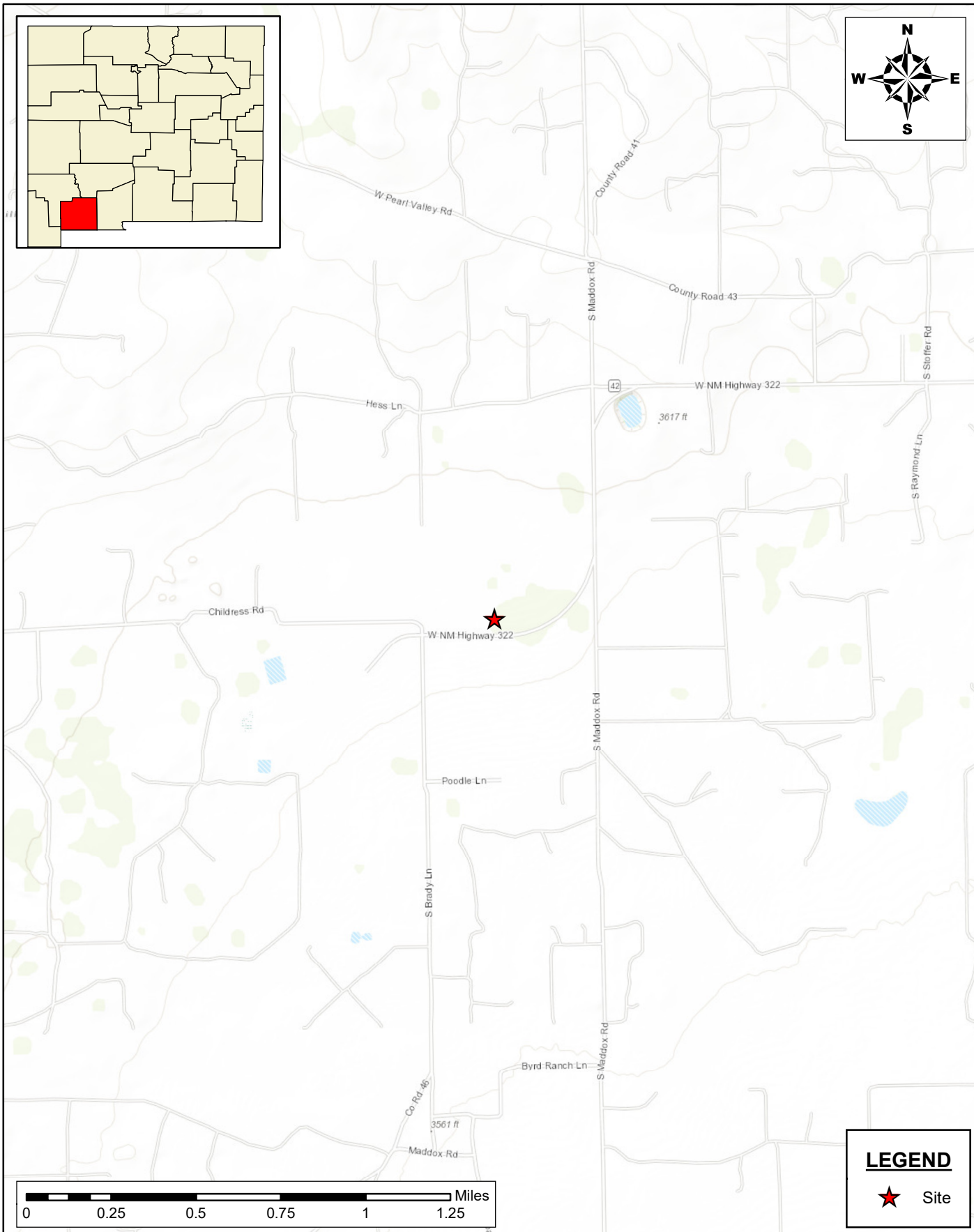
**New Tech Global Environmental, LLC**  
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 Houston, Texas 77060  
 T - 281.872.9300  
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 Web: www.ntgenviroinmental.com



**NOTES:**  
 1. Base Image: ESRI Maps & Data 2013  
 2. Map Projection: NAD 1983

**DRAWING NUMBER:**  
**FIGURE 1**  
**SHEET NUMBER:**  
**1 of 1**

SCALE: As Shown    Date: 8/19/2025    PROJECT #: 2510088



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**TOPOGRAPHIC MAP  
SITE CHARACTERIZATION**  
HILCORP ENERGY  
NMGS AU WELL #1416  
LEA COUNTY, NEW MEXICO  
32.614291° -103.304181°



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**NOTES:**

- 1. Base Image: ESRI Maps & Data 2013
- 2. Map Projection: NAD 1983

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**FIGURE 2**

SHEET NUMBER:

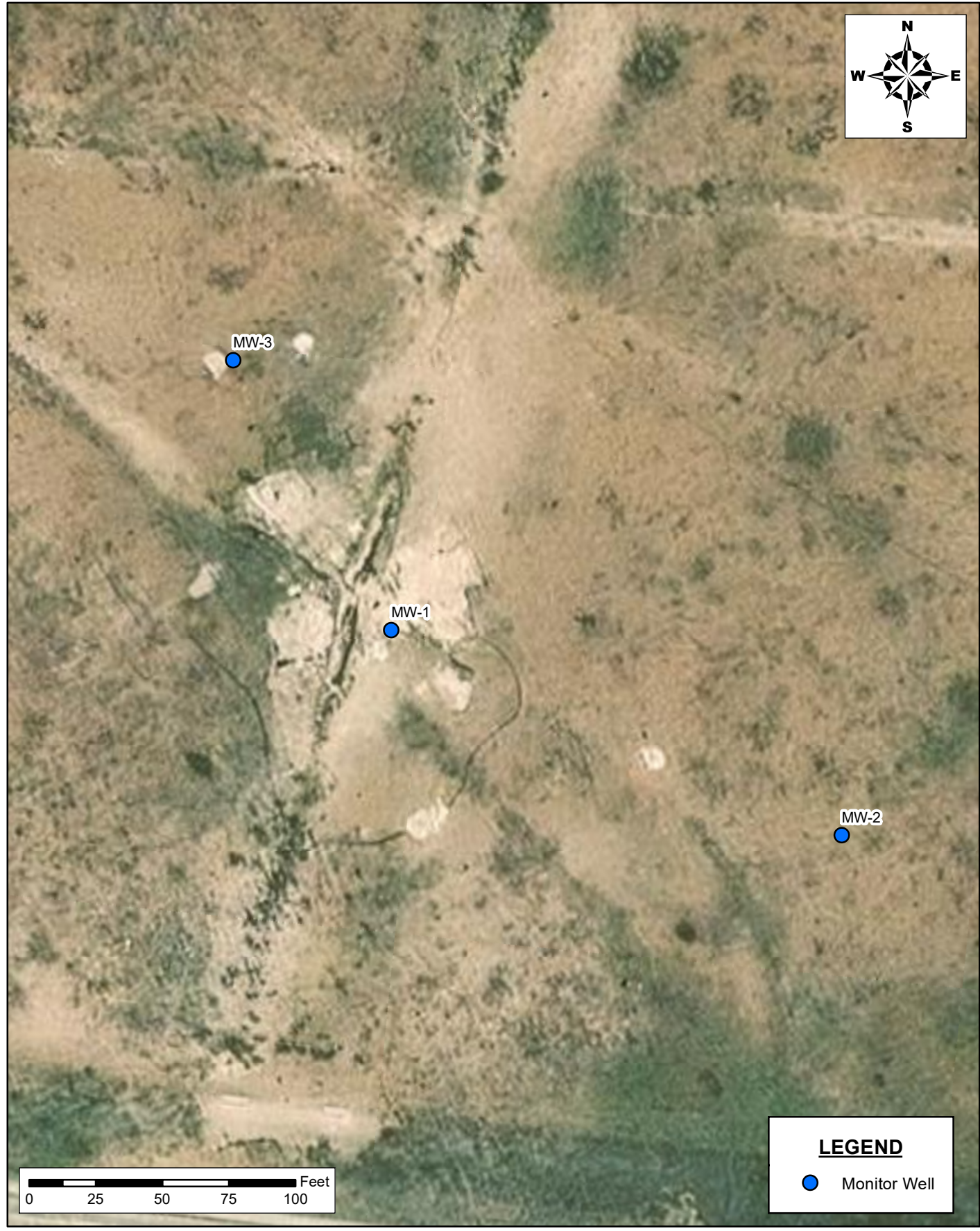
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SCALE: As Shown

Date: 8/19/2025

PROJECT #: 2510088

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**MONITOR WELL LOCATION MAP**  
**SITE ASSESSMENT REPORT**  
 HILCORP ENERGY  
 NMGSAU WELL #1416  
 LEA COUNTY, NEW MEXICO  
 32.614291° -103.304181°

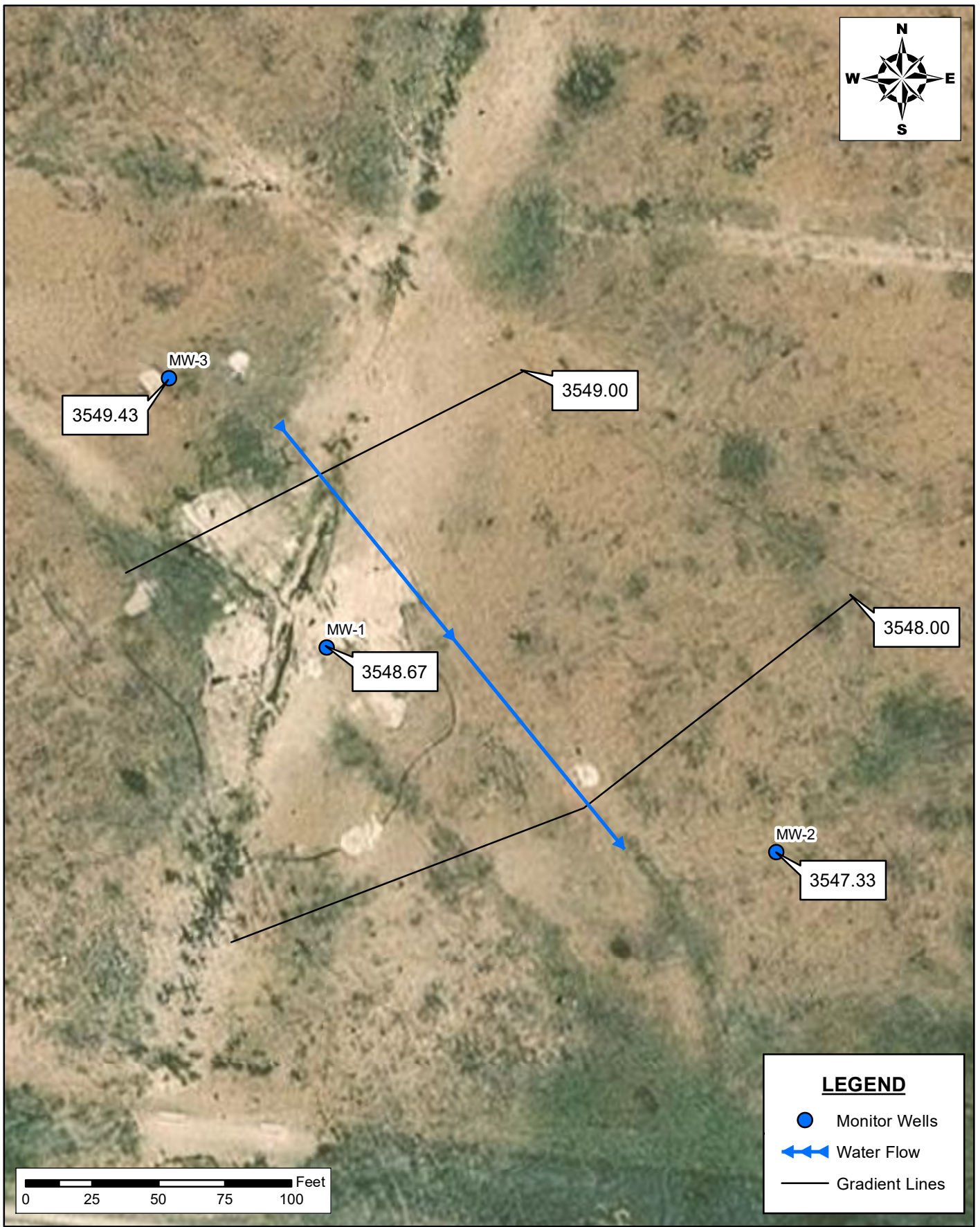
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**NOTES:**  
 1. Base Image: ESRI Maps & Data 2017  
 2. Map Projection: NAD 1983

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**FIGURE 3**  
 SHEET NUMBER:  
**1 of 1**

SCALE: AS SHOWN    DATE: 08/19/2025    PROJECT #: 2510088

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**GROUNDWATER GRADIENT MAP  
SITE ASSESSMENT REPORT  
HILCORP ENERGY  
NMGSAU WELL #1416  
LEA COUNTY, NEW MEXICO  
32.614291° -103.304181°**



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**NOTES:**

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983
3. Gauged on 06/25/25
4. C.I. = 1.00'

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**FIGURE 4A**

SHEET NUMBER:

**1 of 1**

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**LEGEND**

- Monitoring Well
- Potentiometric Surface Elevation
- ⇄ Apparent Flow Direction

**GROUNDWATER GRADIENT MAP  
SITE ASSESSMENT REPORT**  
 HILCORP ENERGY  
 NMGSAU WELL #1416  
 LEA COUNTY, NEW MEXICO  
 32.614291° -103.304181°

SCALE: AS SHOWN    DATE: 01/20/2026    PROJECT #: 2510088

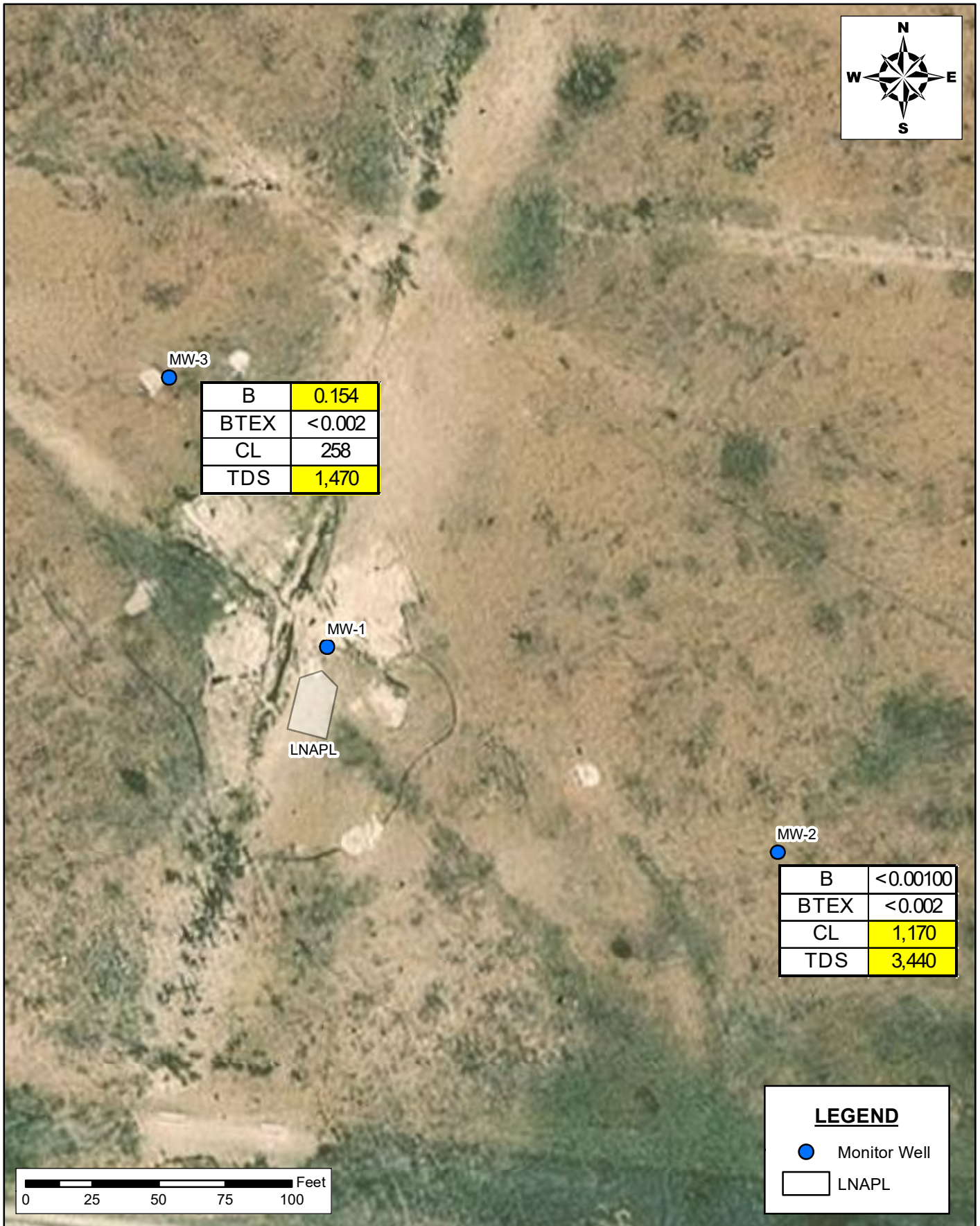
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**NOTES:**

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2. Map Projection: NAD 1983
3. Gauged on 12/05/25
4. C.I. = 1.00'

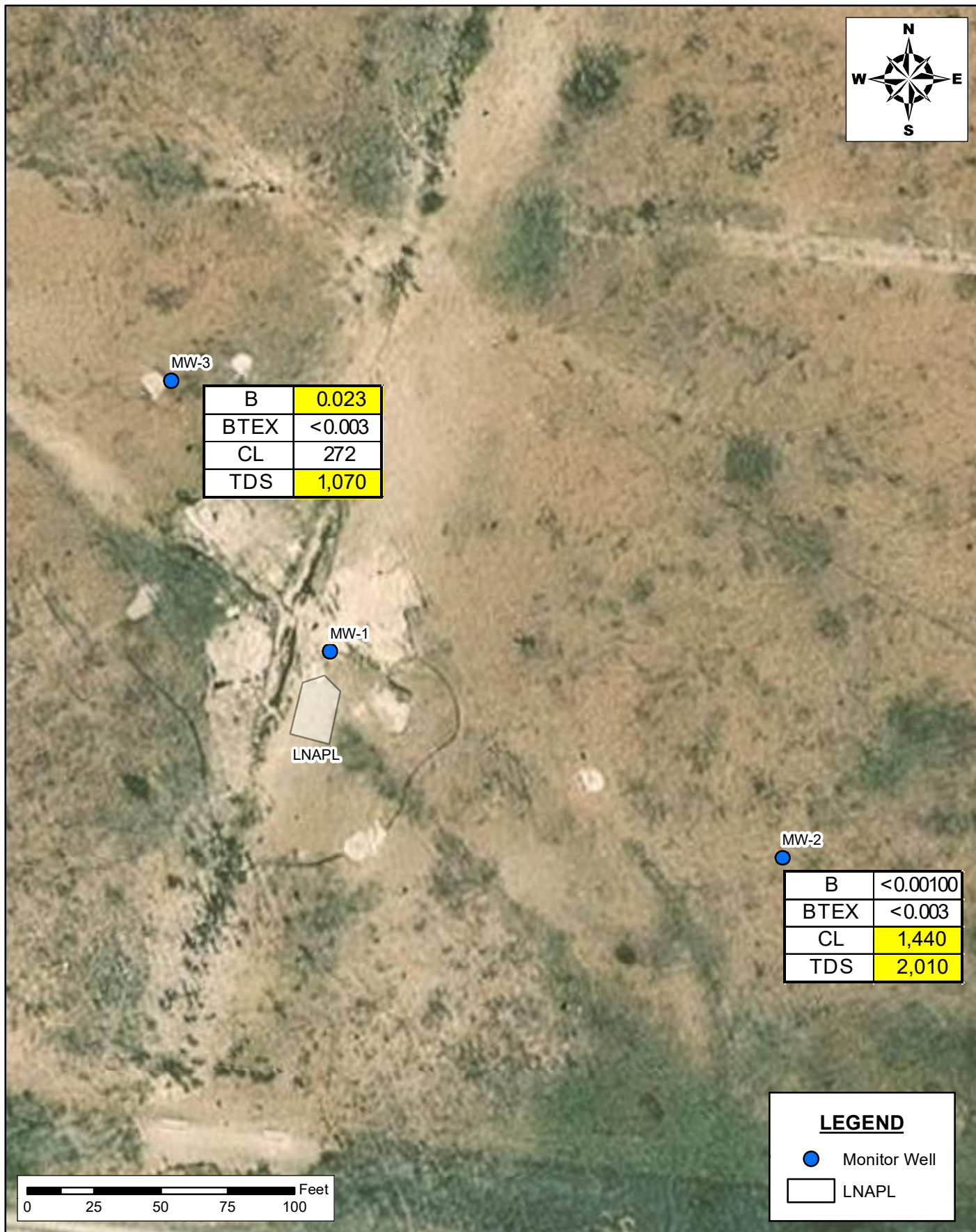
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**FIGURE 4B**  
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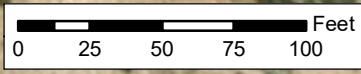
<b>HYDROCARBON/TDS CONCENTRATION MAP                  SITE ASSESSMENT REPORT</b> HILCORP ENERGY NMGSAU WELL #1416 LEA COUNTY, NEW MEXICO 32.614291° -103.304181°			 <b>New Tech Global Environmental, LLC</b> 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntgenviromental.com	<b>NOTES:</b> 1. Base Image: ESRI Maps & Data 2017 2. Map Projection: NAD 1983 3. Results in mg/L Exceeds NMWQCC 4. LNAPL	DRAWING NUMBER: <b>FIGURE 5A</b> SHEET NUMBER: <b>1 of 1</b>
SCALE: AS SHOWN	DATE: 08/19/2025	PROJECT #: 2510088			

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<p><b>HYDROCARBON/TDS CONCENTRATION MAP</b>  <b>SITE ASSESSMENT REPORT</b>                  HILCORP ENERGY                  NMGSAU WELL #1416                  LEA COUNTY, NEW MEXICO                  32.614291° -103.304181°</p>			<p> <b>NTG ENVIRONMENTAL</b>                  New Tech Global Environmental, LLC                  911 Regional Park Drive                  Houston, Texas 77060                  T - 281.872.9300                  F - 281.872.4521                  Web: www.ntgenviromental.com</p>		<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. Base Image: ESRI Maps &amp; Data 2017</li> <li>2. Map Projection: NAD 1983</li> <li>3. Results in mg/L</li> <li>4. LNAPL</li> <li>5. Sampled on Dec 5, 2025</li> </ol>		<p>DRAWING NUMBER:  <b>FIGURE 5B</b>                  SHEET NUMBER:  <b>1 of 1</b></p>	
SCALE: AS SHOWN	DATE: 12/05/2025	PROJECT #: 2510088						

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**LEGEND**

- Monitoring Well
- Proposed Monitoring Well

<b>PROPOSED MONITOR WELL LOCATION MAP</b> HILCORP ENERGY NMGS AU WELL #1416 LEA COUNTY, NEW MEXICO 32.614291° -103.304181°			 <b>New Tech Global Environmental, LLC</b> 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntgenviromental.com	<b>NOTES:</b> 1. Base Image: ESRI Maps & Data 2017 2. Map Projection: NAD 1983	DRAWING NUMBER: <div style="text-align: center; border: 1px solid black; padding: 5px;"><b>FIGURE 6</b></div> SHEET NUMBER: <div style="text-align: center; border: 1px solid black; padding: 5px;"><b>1 of 1</b></div>
SCALE: AS SHOWN	DATE: 08/21/2025	PROJECT #: 2510088			

## **TABLES**

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**Table 1**  
**Groundwater Gauging Data and Corrected Groundwater Depth**  
**Hilcorp Energy Company**  
**NMGSAU 1416**  
**Lea County, New Mexico**

Sample ID	Gauging Date	Top of Casing (ft)	Measured Depth To Groundwater (ft)	Measured Depth To LNAPL (ft)	Measured Thickness of LNAPL (ft)	Corrected Groundwater Depth (ft)
MW-1 Screen (33.88'-53.88')	12/21/21	3,587.99	41.57	38.84	2.73	3,548.23
	07/19/23	3,587.99	42.07	39.25	2.82	3,547.79
	09/14/23	3,587.99	42.20	39.44	2.76	3,547.62
	06/25/25	3,587.99	40.97	38.48	2.49	3,548.67
	12/05/25	3,587.99	39.09	39.05	0.04	3,548.93
MW-2 Screen (35.03-54.98')	09/07/23	3,587.23	39.95	--	--	3,547.28
	09/14/23	3,587.23	39.99	--	--	3,547.24
	06/25/25	3,587.23	39.90	--	--	3,547.33
	12/05/25	3,587.23	39.39	--	--	3,547.84
MW-3 Screen (35.20'-55.16')	09/07/23	3,588.23	38.93	--	--	3,549.30
	09/14/23	3,588.23	38.96	--	--	3,549.27
	06/25/25	3,588.23	38.80	--	--	3,549.43
	12/05/25	3,588.23	38.41	--	--	3,549.82

Density of Oil utilized for corrected groundwater gradient in MW-1 is 0.6635 per finger print analysis from lab report dated 09/14/23

**Table 2  
Groundwater Analytical Results  
Hilcorp Energy Company  
NMGSAU 1416  
Lea County, New Mexico**

Sample ID	Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	TPH				Chlorides (mg/L)	TDS (mg/L)
						C6-C10 (mg/L)	>C10-C28 (mg/L)	>C10-C28 (mg/L)	>C28-C35 (mg/L)		
MW-1	12/21/21	<0.200	<b>0.391</b>	<b>0.221</b>	<0.400	<b>1,350</b>	<b>2,210</b>	<459	<b>3,560</b>	<b>1,710</b>	--
	09/14/23	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	06/25/25	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	12/05/25	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
MW-2	09/14/23	<0.00200	<b>0.00214</b>	<0.00200	<0.00400	--	--	--	--	<b>1,270</b>	<b>3,020</b>
	06/25/25	<0.00100	<0.00100	<0.00100	<0.00200	--	--	--	--	<b>1,170</b>	<b>3,440</b>
	12/05/25	<0.00100	<0.00100	<0.00100	<0.00300	--	--	--	--	<b>1,440</b>	<b>2,010</b>
MW-3	09/14/23	<b>0.0033</b>	<0.00200	<0.00200	<0.00400	--	--	--	--	<b>588</b>	<b>1,490</b>
	06/25/25	<b>0.154</b>	<0.00100	<0.00100	<0.00200	--	--	--	--	<b>258</b>	<b>1,470</b>
	12/05/25	<b>0.023</b>	<0.00100	<0.00100	<0.00300	--	--	--	--	<b>272</b>	<b>1,070</b>
Dup-1 (MW-3)	09/14/23	<b>0.00357</b>	<0.00200	<0.00200	<0.00400	--	--	--	--	<b>361</b>	<b>1,490</b>
<b>Regulatory Limits (mg/kg)</b>		<b>0.005*</b>	<b>1*</b>	<b>0.7*</b>	<b>0.62*</b>					<b>250**</b>	<b>1,000**</b>

- exceeds regulatory limits

mg/L - milligram per Liter

Analysis performed by Eurofins Laboratories

<: indicates parameter concentration is below the analytical method reporting limits (RL)

\*: NMWQCC human health standard

**Table 3  
 Measured LNAPL Thickness and Recovery  
 Hilcorp Energy Company  
 NMGSAU 1416  
 Lea County, New Mexico**

Sample ID	Gauging Date	Top of Casing (ft)	Measured Depth To Groundwater (ft)	Measured Depth To LNAPL (ft)	Measured Thickness of LNAPL (ft)	LNAPL Recovered (in gallons)	Total LNAPL Recovered (in gallons)
MW-1 Screen (33.88'-53.88')	12/21/21	3,587.99	41.57	38.84	2.73	--	0.00
	07/19/23	3,587.99	42.07	39.25	2.82	--	0.00
	09/14/23	3,587.99	42.20	39.44	2.76	--	0.00
	06/25/25	3,587.99	40.97	38.48	2.49	--	0.00
	12/05/25	3,587.99	39.09	39.05	0.04	1.50	1.50

Density of Oil utilized for corrected groundwater gradient in MW-1 is 0.6635 per finger print analysis from lab report dated 09/14/23

LNAPL recovered through booms and hand bailing.

**ATTACHMENT A: LABORATORY ANALYTICAL REPORTS AND  
CHAIN-OF-CUSTODY DOCUMENTS**

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jeff Kindley  
NT Global  
701 Tradewinds Blvd  
Midland, Texas 79706  
Generated 7/2/2025 7:41:54 PM

## JOB DESCRIPTION

NMGSAU #1416  
Lea County, New Mexico

## JOB NUMBER

820-19615-1

Eurofins Lubbock  
6701 Aberdeen Ave.  
Suite 8  
Lubbock TX 79424



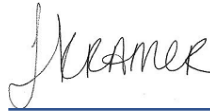
# Eurofins Lubbock

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## Authorization



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Authorized for release by  
Jessica Kramer, Project Manager  
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Client: NT Global  
Project/Site: NMGSAU #1416

Laboratory Job ID: 820-19615-1  
SDG: Lea County, New Mexico

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## Definitions/Glossary

Client: NT Global  
Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
SDG: Lea County, New Mexico

## Qualifiers

## GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

## General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: NT Global  
Project: NMGSAU #1416

Job ID: 820-19615-1

**Job ID: 820-19615-1**

**Eurofins Lubbock**

## Job Narrative 820-19615-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 6/26/2025 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 8.8°C.

### GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### HPLC/IC

Method 300\_ORGFM\_28D: The following sample was diluted to bring the concentration of Chloride within the calibration range: MW-2 (820-19615-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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### Client Sample Results

Client: NT Global  
 Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
 SDG: Lea County, New Mexico

**Client Sample ID: MW-2**

**Lab Sample ID: 820-19615-1**

Date Collected: 06/25/25 16:00

Matrix: Water

Date Received: 06/26/25 16:15

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			07/01/25 23:34	1
Toluene	<0.00100	U	0.00100		mg/L			07/01/25 23:34	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			07/01/25 23:34	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			07/01/25 23:34	1
o-Xylene	<0.00100	U	0.00100		mg/L			07/01/25 23:34	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			07/01/25 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 144		07/01/25 23:34	1
4-Bromofluorobenzene (Surr)	84		74 - 124		07/01/25 23:34	1
Dibromofluoromethane (Surr)	90		75 - 131		07/01/25 23:34	1
Toluene-d8 (Surr)	89		80 - 120		07/01/25 23:34	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/L			07/01/25 23:34	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		5.00		mg/L			06/30/25 16:26	10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3440		40.0		mg/L			06/30/25 08:58	1

**Client Sample ID: MW-3**

**Lab Sample ID: 820-19615-2**

Date Collected: 06/25/25 17:00

Matrix: Water

Date Received: 06/26/25 16:15

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.154</b>		0.00100		mg/L			07/01/25 23:54	1
Toluene	<0.00100	U	0.00100		mg/L			07/01/25 23:54	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			07/01/25 23:54	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			07/01/25 23:54	1
o-Xylene	<0.00100	U	0.00100		mg/L			07/01/25 23:54	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			07/01/25 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		63 - 144		07/01/25 23:54	1
4-Bromofluorobenzene (Surr)	84		74 - 124		07/01/25 23:54	1
Dibromofluoromethane (Surr)	89		75 - 131		07/01/25 23:54	1
Toluene-d8 (Surr)	89		80 - 120		07/01/25 23:54	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.154		0.00200		mg/L			07/01/25 23:54	1

**Method: EPA 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	258		0.500		mg/L			06/30/25 16:33	1

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### Client Sample Results

Client: NT Global  
Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
SDG: Lea County, New Mexico

**Client Sample ID: MW-3**

**Lab Sample ID: 820-19615-2**

Date Collected: 06/25/25 17:00

Matrix: Water

Date Received: 06/26/25 16:15

#### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1470		20.0		mg/L			06/30/25 08:58	1

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### Surrogate Summary

Client: NT Global  
 Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
 SDG: Lea County, New Mexico

**Method: 8260D - Volatile Organic Compounds by GC/MS**

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
820-19615-1	MW-2	92	84	90	89
820-19615-2	MW-3	89	84	89	89
860-104619-C-16 MS	Matrix Spike	84	92	88	97
LCS 860-246120/3	Lab Control Sample	85	93	88	96
LCS 860-246120/4	Lab Control Sample Dup	84	93	86	97
MB 860-246120/9	Method Blank	88	85	88	92

**Surrogate Legend**

- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)



### QC Sample Results

Client: NT Global  
 Project/Site: NMGS AU #1416

Job ID: 820-19615-1  
 SDG: Lea County, New Mexico

#### Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-246120/9  
 Matrix: Water  
 Analysis Batch: 246120

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			07/01/25 21:51	1
Toluene	<0.00100	U	0.00100		mg/L			07/01/25 21:51	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			07/01/25 21:51	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			07/01/25 21:51	1
o-Xylene	<0.00100	U	0.00100		mg/L			07/01/25 21:51	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			07/01/25 21:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		63 - 144		07/01/25 21:51	1
4-Bromofluorobenzene (Surr)	85		74 - 124		07/01/25 21:51	1
Dibromofluoromethane (Surr)	88		75 - 131		07/01/25 21:51	1
Toluene-d8 (Surr)	92		80 - 120		07/01/25 21:51	1

Lab Sample ID: LCS 860-246120/3  
 Matrix: Water  
 Analysis Batch: 246120

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04498		mg/L		90	75 - 125
Toluene	0.0500	0.05062		mg/L		101	75 - 130
Ethylbenzene	0.0500	0.04923		mg/L		98	75 - 125
m,p-Xylenes	0.0500	0.05005		mg/L		100	75 - 125
o-Xylene	0.0500	0.04977		mg/L		100	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	88		75 - 131
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 860-246120/4  
 Matrix: Water  
 Analysis Batch: 246120

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04519		mg/L		90	75 - 125	0	25
Toluene	0.0500	0.05073		mg/L		101	75 - 130	0	25
Ethylbenzene	0.0500	0.05005		mg/L		100	75 - 125	2	25
m,p-Xylenes	0.0500	0.05135		mg/L		103	75 - 125	3	25
o-Xylene	0.0500	0.04958		mg/L		99	75 - 125	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	86		75 - 131
Toluene-d8 (Surr)	97		80 - 120

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### QC Sample Results

Client: NT Global  
Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
SDG: Lea County, New Mexico

#### Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-104619-C-16 MS  
Matrix: Water  
Analysis Batch: 246120

Client Sample ID: Matrix Spike  
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.0200	U	1.00	0.9364		mg/L		94	66 - 142
Toluene	<0.0200	U	1.00	1.101		mg/L		110	59 - 139
Ethylbenzene	<0.0200	U	1.00	1.090		mg/L		109	75 - 125
m,p-Xylenes	<0.0400	U	1.00	1.112		mg/L		109	75 - 125
o-Xylene	<0.0200	U	1.00	1.097		mg/L		110	75 - 125
<b>MS MS</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
1,2-Dichloroethane-d4 (Surr)	84		63 - 144						
4-Bromofluorobenzene (Surr)	92		74 - 124						
Dibromofluoromethane (Surr)	88		75 - 131						
Toluene-d8 (Surr)	97		80 - 120						

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-245735/32  
Matrix: Water  
Analysis Batch: 245735

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.500	U	0.500		mg/L			06/30/25 15:27	1

Lab Sample ID: LCS 860-245735/33  
Matrix: Water  
Analysis Batch: 245735

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
Chloride	10.0	9.672		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-245735/34  
Matrix: Water  
Analysis Batch: 245735

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
Chloride	10.0	9.716		mg/L		97	90 - 110	0	20

Lab Sample ID: 870-37616-B-1 MS  
Matrix: Water  
Analysis Batch: 245735

Client Sample ID: Matrix Spike  
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Chloride	65.3		10.0	75.73	4	mg/L		105	90 - 110

Lab Sample ID: 870-37616-B-1 MSD  
Matrix: Water  
Analysis Batch: 245735

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Chloride	65.3		10.0	75.46	4	mg/L		102	90 - 110	0	15

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### QC Sample Results

Client: NT Global  
 Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
 SDG: Lea County, New Mexico

**Method: SM 2540C - Solids, Total Dissolved (TDS)**

Lab Sample ID: MB 860-245663/1  
 Matrix: Water  
 Analysis Batch: 245663

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00		mg/L			06/30/25 08:34	1

Lab Sample ID: LCS 860-245663/2  
 Matrix: Water  
 Analysis Batch: 245663

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	922.0		mg/L		92	80 - 120

Lab Sample ID: 860-104717-A-2 DU  
 Matrix: Water  
 Analysis Batch: 245663

Client Sample ID: Duplicate  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	758		761.0		mg/L		0.4	10

## QC Association Summary

Client: NT Global  
Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
SDG: Lea County, New Mexico

## GC/MS VOA

## Analysis Batch: 246120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19615-1	MW-2	Total/NA	Water	8260D	
820-19615-2	MW-3	Total/NA	Water	8260D	
MB 860-246120/9	Method Blank	Total/NA	Water	8260D	
LCS 860-246120/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-246120/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-104619-C-16 MS	Matrix Spike	Total/NA	Water	8260D	

## Analysis Batch: 246511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19615-1	MW-2	Total/NA	Water	Total BTEX	
820-19615-2	MW-3	Total/NA	Water	Total BTEX	

## HPLC/IC

## Analysis Batch: 245735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19615-1	MW-2	Total/NA	Water	300.0	
820-19615-2	MW-3	Total/NA	Water	300.0	
MB 860-245735/32	Method Blank	Total/NA	Water	300.0	
LCS 860-245735/33	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-245735/34	Lab Control Sample Dup	Total/NA	Water	300.0	
870-37616-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
870-37616-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

## General Chemistry

## Analysis Batch: 245663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19615-1	MW-2	Total/NA	Water	SM 2540C	
820-19615-2	MW-3	Total/NA	Water	SM 2540C	
MB 860-245663/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-245663/2	Lab Control Sample	Total/NA	Water	SM 2540C	
860-104717-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

### Lab Chronicle

Client: NT Global  
 Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
 SDG: Lea County, New Mexico

**Client Sample ID: MW-2**

**Lab Sample ID: 820-19615-1**

Date Collected: 06/25/25 16:00

Matrix: Water

Date Received: 06/26/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	246120	07/01/25 23:34	NA	EET HOU
Total/NA	Analysis	Total BTEX		1			246511	07/01/25 23:34	KLV	EET HOU
Total/NA	Analysis	300.0		10			245735	06/30/25 16:26	HN	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	245663	06/30/25 08:58	TR	EET HOU

**Client Sample ID: MW-3**

**Lab Sample ID: 820-19615-2**

Date Collected: 06/25/25 17:00

Matrix: Water

Date Received: 06/26/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	246120	07/01/25 23:54	NA	EET HOU
Total/NA	Analysis	Total BTEX		1			246511	07/01/25 23:54	KLV	EET HOU
Total/NA	Analysis	300.0		1			245735	06/30/25 16:33	HN	EET HOU
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	245663	06/30/25 08:58	TR	EET HOU

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

### Accreditation/Certification Summary

Client: NT Global  
Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
SDG: Lea County, New Mexico

#### Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

- 1
- 2
- 3
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### Method Summary

Client: NT Global  
Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
5030C	Purge and Trap	SW846	EET HOU

**Protocol References:**

- EPA = US Environmental Protection Agency
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

- EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



### Sample Summary

Client: NT Global  
Project/Site: NMGSAU #1416

Job ID: 820-19615-1  
SDG: Lea County, New Mexico

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-19615-1	MW-2	Water	06/25/25 16:00	06/26/25 16:15
820-19615-2	MW-3	Water	06/25/25 17:00	06/26/25 16:15

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Loc: 820  
19615

Chain of Custody



820-19615 Chain of Custody



Page 1 of 1

Work Order Comments

Program:  UST/PS  PRP  Brownfield  RR  Superfund

State of Project:  Level III  Level II  PST/US  TRR  Lev

Reporting:  Level  Level III  Level II  PST/US  TRR  Lev

Deliverables:  EDD  ADaPT  Other:

Project Manager: Jeff Kindley Bill to: (if different) Same

Company Name: NTG Environmental Company Name:

Address: 701 Tradewinds Blvd. Address:

City, State ZIP: Midland TX, 79701 City, State ZIP:

Phone: 432-766-1918 E-mail: jkindley@ntglobal.com, bhaaskell@ntglobal.com

SAMPLE RECEIPT		Turn Around		Parameters		ANALYSIS REQUEST		Preservative Codes	
Received Intact:	Thermop Blank:	Yes	No	Wet Ice:	Yes	No	None:	NO	DI Water: H <sub>2</sub> O
Cooler Custody Seals:	Yes	No	N/A	Thermometer ID:	TAT starts the day received by the lab, if received by 4:30pm		Cool:	Cool	MeOH: Me
Sample Custody Seals:	Yes	No	N/A	Correction Factor:	Due Date:		HCL:	HC	HNO <sub>3</sub> : HN
Total Containers:	0	0	0	Temperature Reading:			H <sub>2</sub> SO <sub>4</sub> :	H <sub>2</sub>	NaOH: Na
	Corrected Temperature:			Corrected Temperature:			H <sub>3</sub> PO <sub>4</sub> :	HP	
Sample Identification	Depth	Date	Time	Soil	Water	Grab/Comp	# of Cont	Sample Comments	
MW-2		06/25/25	4:00		X	Grab/	5	HOLD	
MW-3		06/25/25	5:00		X	Grab/	5	BTEX EPA 8260	
								Chloride 4500 CL-B	
								TDS (SM 2540C)	

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Nick Hart</i>	<i>Hyper...</i>	06/25/25 10:15 <sup>2</sup>		
		4		
		6		

Revised Date 05/12/2020 Rev. 2020.1

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### Login Sample Receipt Checklist

Client: NT Global

Job Number: 820-19615-1  
SDG Number: Lea County, New Mexico

**Login Number: 19615**  
**List Number: 1**  
**Creator: Guillen, Kyrstin**

**List Source: Eurofins Lubbock**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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### Login Sample Receipt Checklist

Client: NT Global

Job Number: 820-19615-1  
SDG Number: Lea County, New Mexico

**Login Number: 19615**  
**List Number: 2**  
**Creator: Grandits, Corey**

**List Source: Eurofins Houston**  
**List Creation: 06/28/25 09:51 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 11, 2025

JEFF KINDLEY  
NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND, TX 79706

RE: NMGSAU # 1416

Enclosed are the results of analyses for samples received by the laboratory on 12/05/25 11:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: NMGSAU # 1416 Project Number: 2510088 Project Manager: JEFF KINDLEY Fax To:	Reported: 11-Dec-25 16:20
--	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	H257581-01	Water	05-Dec-25 10:00	05-Dec-25 11:54
MW-3	H257581-02	Water	05-Dec-25 08:15	05-Dec-25 11:54

Cardinal Laboratories

\*=Accredited Analyte

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: NMGSAU # 1416 Project Number: 2510088 Project Manager: JEFF KINDLEY Fax To:	Reported: 11-Dec-25 16:20
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**MW-2**

**H257581-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride*</b>	<b>1440</b>		4.00	mg/L	1	5120533	AC	05-Dec-25	4500-Cl-B	
<b>TDS*</b>	<b>2010</b>		5.00	mg/L	1	5120829	KH	08-Dec-25	160.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Toluene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total BTEX	<0.006		0.006	mg/L	1	5120519	JH	10-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			119 %			80.3-128	5120519	JH	10-Dec-25	8021B

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: NMGSAU # 1416 Project Number: 2510088 Project Manager: JEFF KINDLEY Fax To:	Reported: 11-Dec-25 16:20
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**MW-3**

**H257581-02 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride*</b>	<b>272</b>		4.00	mg/L	1	5120533	AC	05-Dec-25	4500-Cl-B	
<b>TDS*</b>	<b>1070</b>		5.00	mg/L	1	5120829	KH	08-Dec-25	160.1	

**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.023</b>		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Toluene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	5120519	JH	10-Dec-25	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	5120519	JH	10-Dec-25	8021B	
<b>Total BTEX</b>	<b>0.023</b>		0.006	mg/L	1	5120519	JH	10-Dec-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 118 % 80.3-128 5120519 JH 10-Dec-25 8021B

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: NMGSAU # 1416 Project Number: 2510088 Project Manager: JEFF KINDLEY Fax To:	Reported: 11-Dec-25 16:20
--	---	------------------------------

**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5120533 - General Prep - Wet Chem**

**Blank (5120533-BLK1)** Prepared & Analyzed: 05-Dec-25

Chloride	ND	4.00	mg/L							
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**LCS (5120533-BS1)** Prepared & Analyzed: 05-Dec-25

Chloride	104	4.00	mg/L	100	104	80-120				
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**LCS Dup (5120533-BSD1)** Prepared & Analyzed: 05-Dec-25

Chloride	104	4.00	mg/L	100	104	80-120	0.00	20		
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**Batch 5120829 - Filtration**

**Blank (5120829-BLK1)** Prepared & Analyzed: 09-Dec-25

TDS	ND	5.00	mg/L							
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**LCS (5120829-BS1)** Prepared & Analyzed: 09-Dec-25

TDS	442		mg/L	495	89.3	80-120				
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**Duplicate (5120829-DUP1)** Source: H257581-01 Prepared: 08-Dec-25 Analyzed: 09-Dec-25

TDS	2050	5.00	mg/L		2010		2.36	20		
-----	------	------	------	--	------	--	------	----	--	--

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: NMGSAU # 1416 Project Number: 2510088 Project Manager: JEFF KINDLEY Fax To:	Reported: 11-Dec-25 16:20
--	---	------------------------------

**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5120519 - Volatiles**

**Blank (5120519-BLK1)**

Prepared: 05-Dec-25 Analyzed: 10-Dec-25

Benzene	ND	0.001	mg/L							
Toluene	ND	0.001	mg/L							
Ethylbenzene	ND	0.001	mg/L							
Total Xylenes	ND	0.003	mg/L							
Total BTEX	ND	0.006	mg/L							
Surrogate: 4-Bromofluorobenzene (PID)	0.0588		mg/L	0.0500		118	80.3-128			

**LCS (5120519-BS1)**

Prepared: 05-Dec-25 Analyzed: 10-Dec-25

Benzene	0.020	0.001	mg/L	0.0200		101	79.8-121			
Toluene	0.022	0.001	mg/L	0.0200		110	81.2-123			
Ethylbenzene	0.023	0.001	mg/L	0.0200		113	79.7-124			
m,p-Xylene	0.044	0.002	mg/L	0.0400		109	82.9-124			
o-Xylene	0.021	0.001	mg/L	0.0200		105	83-122			
Total Xylenes	0.065	0.003	mg/L	0.0600		108	83.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0548		mg/L	0.0500		110	80.3-128			

**LCS Dup (5120519-BSD1)**

Prepared: 05-Dec-25 Analyzed: 10-Dec-25

Benzene	0.020	0.001	mg/L	0.0200		97.8	79.8-121	2.74	7.58	
Toluene	0.021	0.001	mg/L	0.0200		103	81.2-123	6.80	8.87	
Ethylbenzene	0.021	0.001	mg/L	0.0200		103	79.7-124	9.81	9.72	QR-04
m,p-Xylene	0.040	0.002	mg/L	0.0400		99.5	82.9-124	9.32	9.68	
o-Xylene	0.019	0.001	mg/L	0.0200		97.1	83-122	7.70	9.43	
Total Xylenes	0.059	0.003	mg/L	0.0600		98.7	83.7-123	8.79	9.45	
Surrogate: 4-Bromofluorobenzene (PID)	0.0526		mg/L	0.0500		105	80.3-128			

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04            The RPD for the BS/BSD was outside of historical limits.
- ND                Analyte NOT DETECTED at or above the reporting limit
- RPD               Relative Percent Difference
- \*\*                 Samples not received at proper temperature of 6°C or below.
- \*\*\*                Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <b>NTGE</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <b>Jeff Keene</b>		P.O. #: <b>SAME</b>			
Address: <b>701 Trade Winds Blvd Suite C</b>		Company:			
City: <b>Midland</b> State: <b>TX</b> Zip: <b>79706</b>		Attn:			
Phone #: <b>432-230-0920</b> Fax #:		Address:			
Project #: <b>2510088</b> Project Owner: <b>Hilco</b>		City:			
Project Name: <b>NM GSAO # 1416</b>		State:			
Project Location: <b>Lee Co NM</b>		Phone #:			
Sampler Name: <b>Jeff Keene</b>		Fax #:			
FOR LAB USE ONLY		MATRIX		PRESERV	
Lab I.D. <b>425581</b>		(G)RAB OR (C)OMP.		DATE	
Sample I.D.		# CONTAINERS		TIME	
1 MW-2		GROUNDWATER		12/05/25 1000	
2 MW-3		WASTEWATER		2/15/25 815	
		SOIL			
		OIL			
		SLUDGE			
		OTHER:			
		ACID/BASE:			
		ICE / COOL			
		OTHER:			

BTEX  
 CI  
 TDS

RECEIVED BY: **Shoddiang**  
 DATE: **2-15-25**  
 TIME: **11:54**

RELINQUISHED BY: **Jeff Keene**  
 DATE: **2-5-25**  
 TIME: **11:54**

OBSERVED TEMP. °C: **4.4**  
 CORRECTED TEMP. °C: **4.7**

SAMPLE CONDITION: **Intact**

CHECKED BY: **SR** (Initials)

REMARKS: **P.500.0205701K 8 VOA HCL #1014**

TURNAROUND TIME: **Standard**

THERMOMETER ID #140  
 CORRECTION FACTOR +0.3°C

BACTERIA (ONLY) SAMPLE CONDITION: **Intact**

OBSERVED TEMP. °C: **4.4**  
 CORRECTED TEMP. °C: **4.7**

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State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Michelle Lujan Grisham**  
Governor

**Erin Taylor**  
Acting Cabinet Secretary

**Ben Shelton**  
Deputy Cabinet Secretary

**Albert C.S. Chang**, Director  
Oil Conservation Division



March 20, 2026

Hilcorp Energy  
Company 1111 Travis  
Street Houston, TX 77002

**RE: Notification of Abatement for nAPP2112649963 NMGSAU 1416, Facility ID: fAPP2301045364, located in Unit letter J, Section 36, Township 19 South, Range 36 East, in Lea County, New Mexico**

Dear Mr. Vicenik:

The New Mexico Oil Conservation Division (OCD) has reviewed Hilcorp Energy Company OGRID 372171's (Hilcorp) *2025 Annual Groundwater Monitoring Report*, submitted January 29, 2026, under application ID: 548316 for the North Monument G/SA Unit #1416, Incident ID# nAPP2112649963.

OCD has determined from the submitted report that groundwater has been impacted by Oil & Gas activity in excess of the standards outlined in 19.15.30.9 NMAC. Pursuant to 19.15.30 NMAC, OCD is requiring Hilcorp to submit an abatement plan pursuant to 19.15.30.11 NMAC and Subsection A of 19.15.30.14 NMAC. Hilcorp must submit a complete Stage 1 Abatement Plan proposal to OCD Permitting within 60 days of receipt of this letter. Hilcorp may submit stage 1 and stage 2 abatement plan proposals together.

The public may view a copy of the *2025 Annual Groundwater Monitoring Report* and the conditions online from OCD permitting under Incident ID# nAPP2112649963 at <http://www.emnrd.state.nm.us/ocd/>.

If Hilcorp Energy Company has any questions or concerns regarding this letter, please contact Brittany Hall at (505) 517-5333 or [Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov).

Sincerely,

*Rosa M. Romero*

Rosa Romero  
Environmental Bureau Chief

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 548315

**CONDITIONS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 548315
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
bhall	Report accepted for record only.	3/20/2026
bhall	OCD is requiring a Stage I Abatement plan be submitted within 60 days of the receipt of the letter attached to this application. A copy of this letter will also be emailed to the operator.	3/20/2026
bhall	A Stage I Abatement Plan must be submitted through the OCD Permitting website by May 20, 2026.	3/20/2026