



701 Tradewinds Blvd
Midland, Texas 79707
Tel. 432-766-1918
www.ntgenvironmental.com

July 10, 2025

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

**Re: 2025 Q1 Groundwater Monitoring Report
Northeast Drinkard Unit (NEDU) 527 Site
Unit Letter L, Sec 10, T21S, R37E
GPS Coordinates: 32.489811°N, -103.158592°W
Lea County, New Mexico
NMOCD Release Number: nPAC0631334833**

1. Introduction

New Tech Global Environmental, LLC (NTGE) on behalf of Hilcorp Energy Company (Hilcorp), has prepared this 2025 Q1 Groundwater Monitoring Report for submittal to the New Mexico Oil Conservation Division (NMOCD) District 1 in Hobbs, and Santa Fe, New Mexico. This report presents the 2025 first (1st) quarter laboratory analysis of groundwater samples collected from two (2) of five (5) monitor wells (MW-4 and MW-5), with the remaining wells (MW-1 through MW-3) being dry at the NEDU 527 (Site) located in Unit Letter L, Section 10, Township 21 South, Range 37 East, in Lea County, New Mexico. The geodetic position is latitude 32.489811° N, longitude -103.158592° W. See Figures 1 and 2 for Site Location and Topographic Maps.

2. Background

A produced water release occurred due to a compromised liner during the excavation of the drilling pit. An unknown volume of brine water migrated beneath the pit liner and into the underlying soil. On July 19, 2006, notice was given to Mr. Larry Johnson (NMOCD District 1) and Mr. Glen VonGonten (NMOCD Santa Fe) by Mr. Jerry Brian of Hungry Horse Environmental (Hungry Horse). The surface owner is the State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). On November 6, 2006, Hungry Horse, on behalf of Apache, submitted the initial C-141 to the NMOCD, which was approved on November 9, 2006, and assigned remediation permit number 1RP-1113 and incident tracking number nPAC063133483.

Hungry Horse commenced remediation of the drilling pit on July 23, 2006, and excavated soil to approximately ten (10) feet below ground surface (bgs). On July 31, 2006, Hungry Horse personnel collected soil samples from the base of the excavation (northeast, center, and southeast) at approximately ten (10) feet bgs and near the southwest corner at approximately twelve (12) feet bgs. Cardinal Laboratories of Hobbs, New Mexico analyzed the soil samples and reported chloride concentrations between 2,255 milligrams per kilogram (mg/Kg) near the center of the excavation at ten (10) feet bgs and 26,872 mg/Kg in the southwest sample at twelve (12) feet bgs.

Between July 31, 2006, and September 6, 2006, Hungry Horse deepened the excavation between 14 feet bgs and 19 feet bgs. On August 8, 2006, a base sample was collected near the center of the excavation (C. WRK.PIT) from fourteen (14) feet bgs, with a reported chloride concentration of 176 mg/Kg. On September 6, 2006, base samples with reported chloride concentrations of 224 mg/Kg (E – Working Pit – 19' bgs), 288

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mg/Kg (NE -19' bgs), and 1,935 mg/Kg (SE – 19' bgs) were collected. Hungry Horse hauled approximately 9,000 cubic yards of excavated soil to Sundance Services, Inc., located near Eunice, New Mexico for final disposition.

Between September 14 and 19, 2006, Hungry Horse personnel drilled four (4) boreholes (BH #1 through BH #4) in the base of the excavation using a truck-mounted hollow stem auger rig and split spoon sampler to vertically delineate the extent of chloride impacts. Boreholes #1, # 2, #3, and #4 were drilled near the northeast (NE), southeast (SE), southwest (SW), and northwest (NW) quadrants, respectively. Soil samples were collected every five (5) feet to a depth of 35 ft bgs in BH #1 and BH #2 and a depth of 62 ft bgs in BH#3 whereby groundwater was encountered. Borehole BH#4 was advanced to a depth of 55 ft bgs.

Samples collected at the boring terminus in BH#1 and BH#2 exhibited chloride concentrations of 48 mg/Kg and 128 mg/Kg, respectively. A soil sample collected from 55 ft bgs in BH#3 exhibited a chloride concentration of 1,695 mg/Kg and a sample collected from 50 bgs in BH#4 exhibited a chloride concentration of 16 mg/Kg. A groundwater sample also collected from BH#3 which exhibited a chloride concentration of 2,007 milligrams per liter (mg/L). All samples were analyzed for chloride by Cardinal Laboratories (Cardinal) in Hobbs, New Mexico.

According to historical documentation (Trinity Oilfield Services and Rental, LLC, June 2019) the boreholes were plugged and abandoned (P&A), the base of the excavation was “double-capped” with two (2) plastic liners and backfilled to the surface to inhibit the vertical migration of contaminants below 21 feet bgs.

On September 19, 2006, NMOCD was informed of the groundwater impact, and issued abatement permit number AP-068, on November 29, 2006, that required Apache (original owner of the property) to submit an abatement plan in accordance with NMOCD Rule 19 (19.15.1.19 NMAC) for groundwater contamination from the drilling pit at NEDU #527. On February 15, 2007, Hungry Horse submitted the Stage 1 Groundwater Abatement Plan (*Apache Corporation State 1 Ground Water Abatement Plan (AP068) NEDU #527 Well Site API # 30-025-37242*, dated February 14, 2007). The groundwater abatement plan included among other things, installation of three (3) monitoring wells and the collection information to satisfy State 1 abatement plan requirements. No historical documentation could be identified to confirm the NMOCD's approval or denial of the groundwater abatement plan.

Hungry Horse installed three (3) monitoring wells (MW-1, MW-2, and MW-3) at the approximate locations presented on Figure 3. No drilling or completion details are available for these monitoring wells.

On June 5, 2019, Trinity Oilfield Services & Rentals, LLC, (Trinity) assumed remediation activities from Hungry Horse. Trinity prepared a document titled *Addendum to Stage 1 Groundwater Abatement Plan NEDU #527, Lea County, New Mexico*, dated June 2019 that reported observing three (3) monitoring wells during a visit to the Site on June 10, 2019. Trinity also reported the monitoring wells as being constructed with 2-inch schedule 40 PVC. No steel locking cover or concrete pads were observed at the wells. Trinity reported the wells with depths between 57.63 and 59.27 feet bgs and reported sediment buildup in the wells that were completed above the water table.

Trinity proposed removing the PVC casings from the three (3) wells (MW-1, MW-2, and MW-3); reentering and advancing the well bores to approximately 75 feet bgs, and recompleting with 2-inch schedule 40 PVC, concrete pads, J-plugs and locking steel monuments. Trinity also proposed the installation of monitor well MW-4 about 45 feet south and southeast of Borehole #3, to preserve the integrity and impermeability of the “double-cap” liner system, and monitoring well MW-5, about 180 feet downgradient (south and southeast) from well MW-4 near the south edge of the caliche well pad. The proposed depths for the monitoring wells were 75 feet bgs. Trinity proposed submitting a Stage 2 Groundwater Abatement Plan following four (4) consecutive quarters of groundwater monitoring. The *Addendum to Stage 1 Groundwater Abatement Plan NEDU #527, Lea County, New Mexico*, dated June 2019. Monitoring wells MW-4 and MW-5 were not

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drilled, and the addendum abatement plan was not identified in the NMOCD online imaging files for 1RP-113, incident tracking number nPAC0631334833 or abatement permit AP-068.

On May 25, 2021, Larson and Associates (LAI) of Midland, Texas was onsite to oversee the installation of the two additional monitor wells (MW-4 and MW-5) downgradient of the initial release source. The wells were installed to depths of 76.50 and 76.00 feet bgs, respectively with 2-inch schedule 40 PVC. The wells have been continuously monitored quarterly since installation and light non-aqueous phase hydrocarbons (LNAPL), TPH, or BTEX have never been identified in the wells. However, during the initial year of monitoring, chloride concentrations above the above New Mexico Water Quality Control Commission standards (NMWQCC) were identified in both the well for one or more quarters. Following the initial year of monitoring, no constituent of concern (COC) concentrations have been identified above the NMWQCC standards.

In January 2025, Hilcorp purchased the property along with the environmental liability from Apache Corporation.

3. Groundwater Gradient

On March 13, 2025, NTGE was onsite to complete the groundwater gauging and sampling event for the first quarter 2025. All five (5) monitor wells (MW-1 through MW-5) were gauged to determine the static groundwater depths and measure LNAPL, if any. Utilizing a water level indicator each of the wells was gauged from a mark on the north side of the well casing to the depth of first encountered groundwater and to the base of the monitoring well. Three (3) of the monitoring wells (MW-1 through MW-3) were found to be dry and monitoring wells MW-4 and MW-5 were gauged at depths to groundwater of 60.88 ft bgs and 59.89 ft bgs, respectively. Since only two (2) of the five (5) monitoring wells had measurable water, a groundwater gradient map was not generated. However, based on previous reporting, it is presumed the groundwater gradient is to the southeast. The monitoring well locations are shown on Figure 4 and the current and historical monitoring well gauging data is included in Table 1.

4. Groundwater Monitoring and Sampling Procedures

Following the groundwater gauging activities, the monitoring wells with measurable groundwater were sampled. Prior to sampling, the wells were purged using a new polyethylene bailer until a minimum of three (3) well volumes (or wells bailed dry) were purged from each of the monitoring wells. The purge water was placed in an onsite fifty-five (55) gallon steel drum.

The wells were allowed to recharge within a minimum of 90% of the original gauging depth prior to sample collection. Once recharged, the wells were with new disposal poly bailers and twine. The samples were placed into preserved laboratory provided sample containers, placed on ice, and transported to Eurofins Laboratory of Midland, Texas for analysis of BTEX by EPA Method 8260B, chlorides by EPA Method 300.0, and Total Dissolved Solids (TDS) by EPA Method SM 2540C.

5. Groundwater Sampling Results

Analytical results indicated all samples were below the NMWQCC standards for BTEX, chlorides, and TDS. Chlorides in monitoring wells MW-4 and MW-5 were 86.2 milligrams per Liter (mg/L) and 195 mg/L, respectively, while TDS in monitoring wells MW-4 and MW-5 were 407 mg/L and 576 mg/L, respectively. The two (2) monitor wells have remained below the NMWQCC standards since May 24, 2022. The analytical results are presented in Table 2. See Appendix A for laboratory analytical results.

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6. Conclusions and Recommendations

Based on the analytical results of this current and prior monitoring events indicating that the analytical results are below the NMWQCC standards for the last 10 quarters, it is believed the Site is nearing closure. However, given that three (3) of the monitoring wells (MW-1 through MW-3) have remained dry since 2021, NTGE suggests reinstalling a minimum of one (1) of these wells to a depth of 75 feet bgs in order to establish a groundwater gradient for the Site. In addition, the three (3) dry wells should be plugged and abandoned per New Mexico regulations. After installation of the one (1) monitor well, NTGE recommends the site should remain on quarterly sampling and if the analysis remains below NMWQCC standards for eight (8) consecutive quarters, Hilcorp should request closure of the site. See Figure 6 for proposed location of replacement monitor well.

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

Sincerely,
NTG Environmental

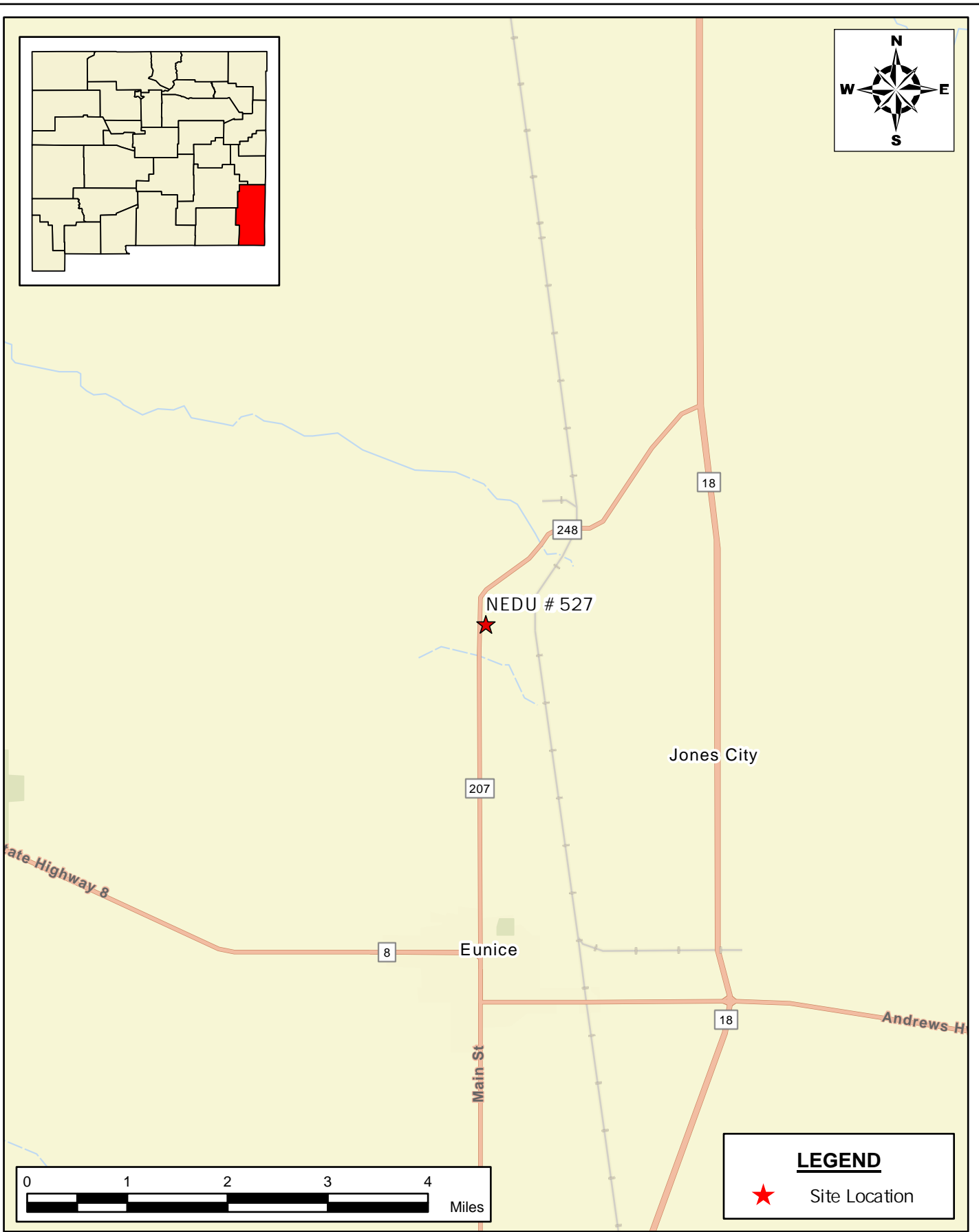
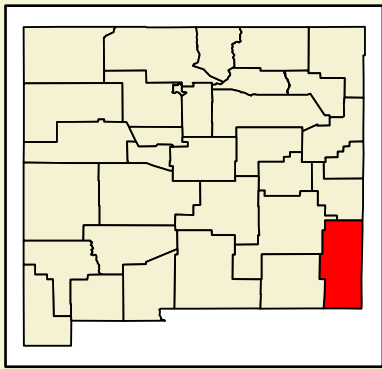
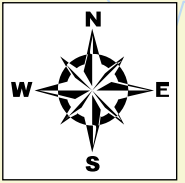


Jeff Kindley, P.G
Senior Project Manager/Geologist

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Monitor Well Location Map
- Figure 4 – Groundwater Gradient Map (March 13, 2025)
- Figure 5 – Hydrocarbon Concentration Map (March 13, 2025)
- Figure 6 – Proposed Monitor Well Installation Map
- Table 1 – Groundwater Elevation Data
- Table 2 – Groundwater Analytical Data
- Appendix A: - Laboratory Analytical Reports and Chain-of-Custody Documentation

FIGURES



LEGEND

★ Site Location

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SITE LOCATION MAP
SITE PLAN
HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811, -103.158592

SCALE: As Shown Date: 2/25/2025 PROJECT #: 259693

 **NTG**
 ENVIRONMENTAL

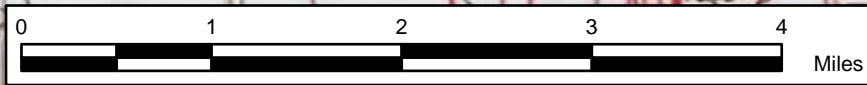
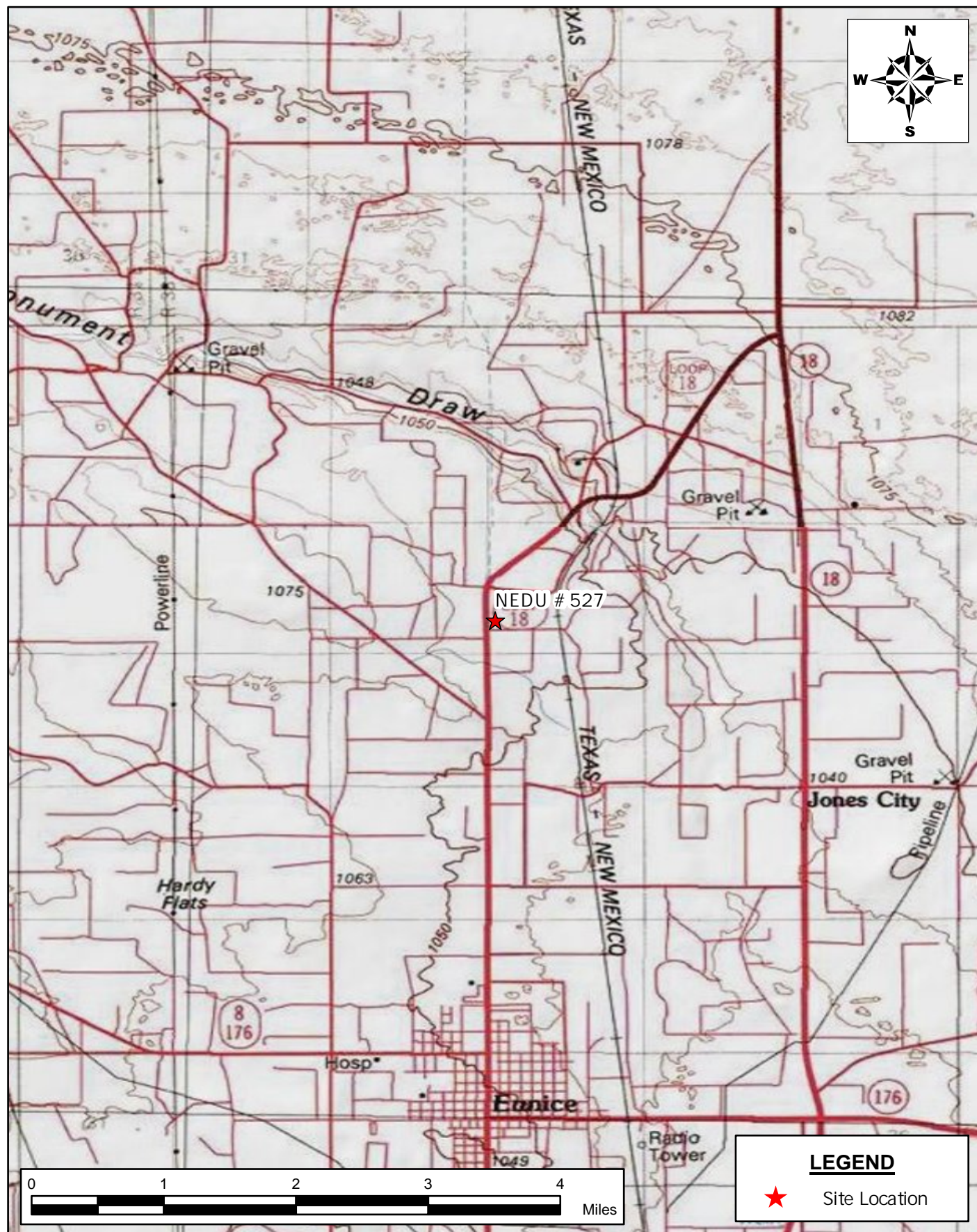
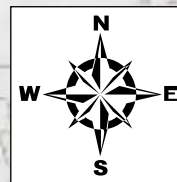
New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1

SHEET NUMBER:
1 of 1



LEGEND

★ Site Location

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**TOPOGRAPHIC MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**

SCALE: As Shown Date: 2/25/2025 PROJECT #: 259693

NTG ENVIRONMENTAL

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

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FIGURE 2
SHEET NUMBER:
1 of 1



LEGEND

● Monitor Well

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MONITOR WELL LOCATION MAP
SITE PLAN
HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811, -103.158592



New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

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FIGURE 3

SHEET NUMBER:

1 of 1

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LEGEND

● Monitor Well

**GROUNDWATER GRADIENT MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**

SCALE: As Shown Date: 4/3/2025 PROJECT #: 259693

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New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N
3. Gauged on 3/13/25

DRAWING NUMBER:
FIGURE 4

SHEET NUMBER:
1 of 1



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LEGEND

● Monitor Well

**DISSOLVED CONCENTRATION MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**

SCALE: As Shown Date: 4/3/2025 PROJECT #: 259693

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New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

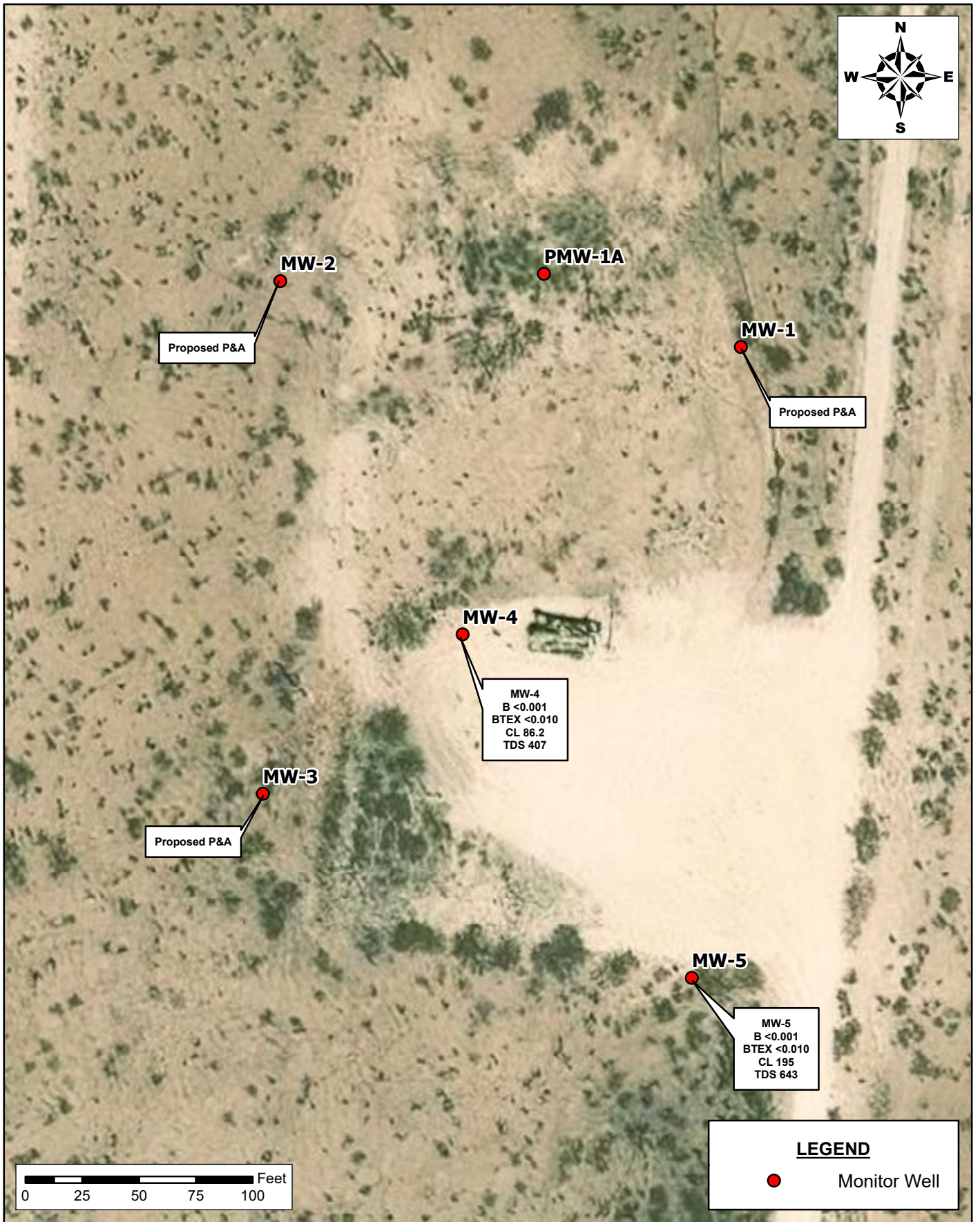
NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N
3. Gauged on 3/13/25
4. Results in mg/L
5. Exceeds NMOCD Site Limits

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FIGURE 5

SHEET NUMBER:
1 of 1

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PROPOSED MONITOR WELL LOCATION MAP
 SITE PLAN
 HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811° -103.158592°

SCALE: AS SHOWN DATE: 07/10/2025 PROJECT #: 259693



New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenvironmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983
3. Contour Interval = 5'
4. Gauged March 13, 2025
5. Elevation in feet

DRAWING NUMBER:

FIGURE 6

SHEET NUMBER:

1 of 1

TABLES

Table 1
Groundwater Gauging Data and Corrected Groundwater Depth
Hilcorp Energy Company
NEDU 527
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			Dry			
MW-2			Dry			
MW-3			Dry			
MW-4 (Screen 55.82'-75.82')	06/01/21	3,466.99	61.81	0.00	0.00	3,405.18
	10/12/21	3,466.99	60.57	0.00	0.00	3,406.42
	12/21/21	3,466.99	60.60	0.00	0.00	3,406.39
	03/02/22	3,466.99	60.68	0.00	0.00	3,406.31
	05/24/22	3,466.99	60.71	0.00	0.00	3,406.28
	08/15/22	3,466.99	60.72	0.00	0.00	3,406.27
	12/12/22	3,466.99	60.40	0.00	0.00	3,406.59
	03/09/23	3,466.99	60.79	0.00	0.00	3,406.20
	06/06/23	3,466.99	60.85	0.00	0.00	3,406.14
	09/05/23	3,466.99	60.83	0.00	0.00	3,406.16
	12/19/23	3,466.99	60.82	0.00	0.00	3,406.17
	03/13/24	3,466.99	60.82	0.00	0.00	3,406.17
	07/25/24	3,466.99	60.91	0.00	0.00	3,406.08
	10/15/24	3,466.99	60.90	0.00	0.00	3,406.09
03/13/25	3,466.99	60.88	0.00	0.00	3,406.11	
MW-5 (Screen 55.82'-75.82')	06/01/21	3,466.06	61.81	0.00	0.00	3,404.25
	10/12/21	3,466.06	60.57	0.00	0.00	3,405.49
	12/21/21	3,466.06	60.60	0.00	0.00	3,405.46
	03/02/22	3,466.06	60.68	0.00	0.00	3,405.38
	05/24/22	3,466.06	60.71	0.00	0.00	3,405.35
	08/15/22	3,466.06	60.72	0.00	0.00	3,405.34
	12/12/22	3,466.06	60.40	0.00	0.00	3,405.66
	03/09/23	3,466.06	60.79	0.00	0.00	3,405.27
	06/06/23	3,466.06	60.85	0.00	0.00	3,405.21
	09/05/23	3,466.06	60.83	0.00	0.00	3,405.23
	12/19/23	3,466.06	60.82	0.00	0.00	3,405.24
	03/13/24	3,466.06	60.82	0.00	0.00	3,405.24
	07/25/24	3,466.06	60.91	0.00	0.00	3,405.15
	10/15/24	3,466.06	60.90	0.00	0.00	3,405.16
03/13/25	3,466.06	59.89	0.00	0.00	3,406.17	

Table 2
Groundwater Analytical Results
Hilcorp Energy Company
NEDU 527
Lea County, New Mexico

Sample ID	Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	Chlorides (mg/L)	TDS (mg/L)
MW-1	Dry							
MW-2	Dry							
MW-3	Dry							
MW-4	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	176	597
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	218	676
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	299	537
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	173	481
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	157	523
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	119	549
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	122	347
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	121	420
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	129	553
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	155	527
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	83.2	394
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	117	367
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	95.3	372
	10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	84.1	486
03/13/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	86.2	407	
MW-5	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	306	761
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	303	757
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	293	709
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	276	764
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	240	667
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	176	665
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	192	508
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	193	531
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	243	734
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	235	654
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	151	491
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	242	540
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	212	543

Table 2
Groundwater Analytical Results
Hilcorp Energy Company
NEDU 527
Lea County, New Mexico

Sample ID	Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	Chlorides (mg/L)	TDS (mg/L)
MW-5 (Cont.)	10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	169	588
	03/13/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	195	643
DUP-1 (MW-5)	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	305	774
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	300	779
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	302	695
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	270	774
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	243	680
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	158	691
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	176	421
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	190	558
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	242	942
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	258	630
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	195	512
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	215	554
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	213	537
10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	160	576	
Regulatory Limits (mg/kg)		0.005*	1*	0.7*	0.62*	NA	250**	1,000***

- 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

**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 6/20/2025 5:16:40 PM

JOB DESCRIPTION

Hilcorp NEDU #527
Lea County, New Mexico

JOB NUMBER

820-19412-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424



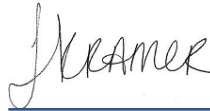
Eurofins Lubbock

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
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Client: NT Global
Project/Site: Hilcorp NEDU #527

Laboratory Job ID: 820-19412-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
SDG: Lea County, New Mexico

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: Hilcorp NEDU #527

Job ID: 820-19412-1

Job ID: 820-19412-1

Eurofins Lubbock

Job Narrative 820-19412-1

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 6/16/2025 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 6.6°C.

GC/MS VOA

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-243362 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-112490 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: MW-5 (820-19412-2), (820-19412-A-2 MS) and (820-19412-A-2 MSD).

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: Hilcorp NEDU #527

Job ID: 820-19412-1
 SDG: Lea County, New Mexico

Client Sample ID: MW-4

Lab Sample ID: 820-19412-1

Date Collected: 06/13/25 17:00

Matrix: Water

Date Received: 06/16/25 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			06/19/25 00:47	1
Toluene	<0.00100	U	0.00100		mg/L			06/19/25 00:47	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			06/19/25 00:47	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			06/19/25 00:47	1
o-Xylene	<0.00100	U	0.00100		mg/L			06/19/25 00:47	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			06/19/25 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		06/19/25 00:47	1
4-Bromofluorobenzene (Surr)	93		74 - 124		06/19/25 00:47	1
Dibromofluoromethane (Surr)	102		75 - 131		06/19/25 00:47	1
Toluene-d8 (Surr)	97		80 - 120		06/19/25 00:47	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			06/19/25 00:47	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		2.50		mg/L			06/18/25 17:03	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	627		10.0		mg/L			06/19/25 09:27	1

Client Sample ID: MW-5

Lab Sample ID: 820-19412-2

Date Collected: 06/13/25 17:30

Matrix: Water

Date Received: 06/16/25 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			06/19/25 01:07	1
Toluene	<0.00100	U	0.00100		mg/L			06/19/25 01:07	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			06/19/25 01:07	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			06/19/25 01:07	1
o-Xylene	<0.00100	U	0.00100		mg/L			06/19/25 01:07	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			06/19/25 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		06/19/25 01:07	1
4-Bromofluorobenzene (Surr)	95		74 - 124		06/19/25 01:07	1
Dibromofluoromethane (Surr)	101		75 - 131		06/19/25 01:07	1
Toluene-d8 (Surr)	96		80 - 120		06/19/25 01:07	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			06/19/25 01:07	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115	F1	2.50		mg/L			06/18/25 17:10	5

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Client Sample Results

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
SDG: Lea County, New Mexico

Client Sample ID: MW-5
Date Collected: 06/13/25 17:30
Date Received: 06/16/25 16:15

Lab Sample ID: 820-19412-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	487		10.0		mg/L			06/19/25 09:27	1

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Surrogate Summary

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
 SDG: Lea County, New Mexico

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(63-144)	(74-124)	(75-131)	(80-120)
820-19412-1	MW-4	101	93	102	97
820-19412-2	MW-5	100	95	101	96
860-103767-G-1 MS	Matrix Spike	93	104	96	101
LCS 860-243362/3	Lab Control Sample	93	103	96	102
LCS 860-243362/4	Lab Control Sample Dup	93	103	95	103
MB 860-243362/8	Method Blank	98	93	98	96

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: Hilcorp NEDU #527

Job ID: 820-19412-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 860-243362/8
 Matrix: Water
 Analysis Batch: 243362

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			06/18/25 23:25	1
Toluene	<0.00100	U	0.00100		mg/L			06/18/25 23:25	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			06/18/25 23:25	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			06/18/25 23:25	1
o-Xylene	<0.00100	U	0.00100		mg/L			06/18/25 23:25	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			06/18/25 23:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		06/18/25 23:25	1
4-Bromofluorobenzene (Surr)	93		74 - 124		06/18/25 23:25	1
Dibromofluoromethane (Surr)	98		75 - 131		06/18/25 23:25	1
Toluene-d8 (Surr)	96		80 - 120		06/18/25 23:25	1

Lab Sample ID: LCS 860-243362/3
 Matrix: Water
 Analysis Batch: 243362

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	0.04412		mg/L		88	75 - 125
Toluene	0.0500	0.04662		mg/L		93	75 - 130
Ethylbenzene	0.0500	0.04560		mg/L		91	75 - 125
m,p-Xylenes	0.0500	0.04532		mg/L		91	75 - 125
o-Xylene	0.0500	0.04557		mg/L		91	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 860-243362/4
 Matrix: Water
 Analysis Batch: 243362

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	0.04578		mg/L		92	75 - 125	4	25
Toluene	0.0500	0.04920		mg/L		98	75 - 130	5	25
Ethylbenzene	0.0500	0.04804		mg/L		96	75 - 125	5	25
m,p-Xylenes	0.0500	0.04787		mg/L		96	75 - 125	5	25
o-Xylene	0.0500	0.04787		mg/L		96	75 - 125	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	95		75 - 131
Toluene-d8 (Surr)	103		80 - 120

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QC Sample Results

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 860-103767-G-1 MS
Matrix: Water
Analysis Batch: 243362

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	<0.00100	U	0.0500	0.03297		mg/L		66	66 - 142	
Toluene	<0.00100	U	0.0500	0.03491		mg/L		70	59 - 139	
Ethylbenzene	<0.00100	U F1	0.0500	0.03432	F1	mg/L		69	75 - 125	
m,p-Xylenes	<0.00200	U F1	0.0500	0.03418	F1	mg/L		68	75 - 125	
o-Xylene	<0.00100	U F1	0.0500	0.03386	F1	mg/L		68	75 - 125	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	93		63 - 144							
4-Bromofluorobenzene (Surr)	104		74 - 124							
Dibromofluoromethane (Surr)	96		75 - 131							
Toluene-d8 (Surr)	101		80 - 120							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112490/3
Matrix: Water
Analysis Batch: 112490

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500		mg/L			06/18/25 13:31	1

Lab Sample ID: LCS 880-112490/4
Matrix: Water
Analysis Batch: 112490

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	24.13		mg/L		97	90 - 110

Lab Sample ID: LCSD 880-112490/5
Matrix: Water
Analysis Batch: 112490

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
Chloride	25.0	24.47		mg/L		98	90 - 110	1	20

Lab Sample ID: 820-19412-2 MS
Matrix: Water
Analysis Batch: 112490

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	115	F1	125	254.8	F1	mg/L		112	90 - 110

Lab Sample ID: 820-19412-2 MSD
Matrix: Water
Analysis Batch: 112490

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	115	F1	125	257.6	F1	mg/L		114	90 - 110	1	20

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QC Sample Results

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 860-243503/1
 Matrix: Water
 Analysis Batch: 243503

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			06/19/25 08:42	1

Lab Sample ID: LCS 860-243503/2
 Matrix: Water
 Analysis Batch: 243503

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	975.0		mg/L		98	80 - 120

Lab Sample ID: 860-103649-A-4 DU
 Matrix: Water
 Analysis Batch: 243503

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	1590		1538		mg/L		4	10

QC Association Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
SDG: Lea County, New Mexico

GC/MS VOA

Analysis Batch: 243362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19412-1	MW-4	Total/NA	Water	8260D	
820-19412-2	MW-5	Total/NA	Water	8260D	
MB 860-243362/8	Method Blank	Total/NA	Water	8260D	
LCS 860-243362/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-243362/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-103767-G-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 244048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19412-1	MW-4	Total/NA	Water	Total BTEX	
820-19412-2	MW-5	Total/NA	Water	Total BTEX	

HPLC/IC

Analysis Batch: 112490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19412-1	MW-4	Total/NA	Water	300.0	
820-19412-2	MW-5	Total/NA	Water	300.0	
MB 880-112490/3	Method Blank	Total/NA	Water	300.0	
LCS 880-112490/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-112490/5	Lab Control Sample Dup	Total/NA	Water	300.0	
820-19412-2 MS	MW-5	Total/NA	Water	300.0	
820-19412-2 MSD	MW-5	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 243503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19412-1	MW-4	Total/NA	Water	SM 2540C	
820-19412-2	MW-5	Total/NA	Water	SM 2540C	
MB 860-243503/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-243503/2	Lab Control Sample	Total/NA	Water	SM 2540C	
860-103649-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
 SDG: Lea County, New Mexico

Client Sample ID: MW-4

Lab Sample ID: 820-19412-1

Date Collected: 06/13/25 17:00

Matrix: Water

Date Received: 06/16/25 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	243362	06/19/25 00:47	A1S	EET HOU
Total/NA	Analysis	Total BTEX		1			244048	06/19/25 00:47	KLV	EET HOU
Total/NA	Analysis	300.0		5	10 mL	10 mL	112490	06/18/25 17:03	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	243503	06/19/25 09:27	TR	EET HOU

Client Sample ID: MW-5

Lab Sample ID: 820-19412-2

Date Collected: 06/13/25 17:30

Matrix: Water

Date Received: 06/16/25 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	243362	06/19/25 01:07	A1S	EET HOU
Total/NA	Analysis	Total BTEX		1			244048	06/19/25 01:07	KLV	EET HOU
Total/NA	Analysis	300.0		5	10 mL	10 mL	112490	06/18/25 17:10	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	243503	06/19/25 09:27	TR	EET HOU

Laboratory References:

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

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
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	06-30-25
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

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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Method Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
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 MID
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
- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-19412-1	MW-4	Water	06/13/25 17:00	06/16/25 16:15
820-19412-2	MW-5	Water	06/13/25 17:30	06/16/25 16:15

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Login Sample Receipt Checklist

Client: NT Global

Job Number: 820-19412-1
SDG Number: Lea County, New Mexico

Login Number: 19412
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: 820-19412-1
SDG Number: Lea County, New Mexico

Login Number: 19412

List Number: 2

Creator: Torrez, Lisandra

List Source: Eurofins Houston

List Creation: 06/18/25 11:43 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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: 820-19412-1
SDG Number: Lea County, New Mexico

Login Number: 19412
List Number: 3
Creator: Lee, Randall

List Source: Eurofins Midland
List Creation: 06/18/25 06:00 PM

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.	N/A	
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").	N/A	

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701 Tradewinds Blvd
Midland, Texas 79707
Tel. 432-766-1918
www.ntgenvironmental.com

August 10, 2025

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

**Re: 2025 Q2 Groundwater Monitoring Report
Northeast Drinkard Unit (NEDU) 527 Site
Unit Letter L, Sec 10, T21S, R37E
GPS Coordinates: 32.489811°N, -103.158592°W
Lea County, New Mexico
NMOCD Release Number: nPAC0631334833**

1. Introduction

New Tech Global Environmental, LLC (NTGE) on behalf of Hilcorp Energy Company (Hilcorp), has prepared this 2025 Q2 Groundwater Monitoring Report for submittal to the New Mexico Oil Conservation Division (NMOCD) District 1 in Hobbs, and Santa Fe, New Mexico. This report presents the 2025 second (2nd) quarter laboratory analysis of groundwater samples collected from two (2) of five (5) monitor wells (MW-4 and MW-5), with the remaining wells (MW-1 through MW-3) being dry at the NEDU 527 (Site) located in Unit Letter L, Section 10, Township 21 South, Range 37 East, in Lea County, New Mexico. The geodetic position is latitude 32.489811° N, longitude -103.158592° W. See Figures 1 and 2 for Site Location and Topographic Maps.

2. Background

A produced water release occurred due to a compromised liner during the excavation of the drilling pit. An unknown volume of brine water migrated beneath the pit liner and into the underlying soil. On July 19, 2006, notice was given to Mr. Larry Johnson (NMOCD District 1) and Mr. Glen VonGonten (NMOCD Santa Fe) by Mr. Jerry Brian of Hungry Horse Environmental (Hungry Horse). The surface owner is the State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). On November 6, 2006, Hungry Horse, on behalf of Apache, submitted the initial C-141 to the NMOCD, which was approved on November 9, 2006, and assigned remediation permit number 1RP-1113 and incident tracking number nPAC063133483.

Hungry Horse commenced remediation of the drilling pit on July 23, 2006, and excavated soil to approximately ten (10) feet below ground surface (bgs). On July 31, 2006, Hungry Horse personnel collected soil samples from the base of the excavation (northeast, center, and southeast) at approximately ten (10) feet bgs and near the southwest corner at approximately twelve (12) feet bgs. Cardinal Laboratories of Hobbs, New Mexico analyzed the soil samples and reported chloride concentrations between 2,255 milligrams per kilogram (mg/Kg) near the center of the excavation at ten (10) feet bgs and 26,872 mg/Kg in the southwest sample at twelve (12) feet bgs.

Between July 31, 2006, and September 6, 2006, Hungry Horse deepened the excavation between 14 feet bgs and 19 feet bgs. On August 8, 2006, a base sample was collected near the center of the excavation (C. WRK.PIT) from fourteen (14) feet bgs, with a reported chloride concentration of 176 mg/Kg. On September 6, 2006, base samples with reported chloride concentrations of 224 mg/Kg (E – Working Pit – 19' bgs), 288

Mr. Billy Ginn
January 19, 2026
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mg/Kg (NE -19' bgs), and 1,935 mg/Kg (SE – 19' bgs) were collected. Hungry Horse hauled approximately 9,000 cubic yards of excavated soil to Sundance Services, Inc., located near Eunice, New Mexico for final disposition.

Between September 14 and 19, 2006, Hungry Horse personnel drilled four (4) boreholes (BH #1 through BH #4) in the base of the excavation using a truck-mounted hollow stem auger rig and split spoon sampler to vertically delineate the extent of chloride impacts. Boreholes #1, #2, #3, and #4 were drilled near the northeast (NE), southeast (SE), southwest (SW), and northwest (NW) quadrants, respectively. Soil samples were collected every five (5) feet to a depth of 35 ft bgs in BH #1 and BH #2 and a depth of 62 ft bgs in BH#3 whereby groundwater was encountered. Borehole BH#4 was advanced to a depth of 55 ft bgs.

Samples collected at the boring terminus in BH#1 and BH#2 exhibited chloride concentrations of 48 mg/Kg and 128 mg/Kg, respectively. A soil sample collected from 55 ft bgs in BH#3 exhibited a chloride concentration of 1,695 mg/Kg and a sample collected from 50 bgs in BH#4 exhibited a chloride concentration of 16 mg/Kg. A groundwater sample also collected from BH#3 which exhibited a chloride concentration of 2,007 milligrams per liter (mg/L). All samples were analyzed for chloride by Cardinal Laboratories (Cardinal) in Hobbs, New Mexico.

According to historical documentation (Trinity Oilfield Services and Rental, LLC, June 2019) the boreholes were plugged and abandoned (P&A), the base of the excavation was “double-capped” with two (2) plastic liners and backfilled to the surface to inhibit the vertical migration of contaminants below 21 feet bgs.

On September 19, 2006, NMOCD was informed of the groundwater impact, and issued abatement permit number AP-068, on November 29, 2006, that required Apache (original owner of the property) to submit an abatement plan in accordance with NMOCD Rule 19 (19.15.1.19 NMAC) for groundwater contamination from the drilling pit at NEDU #527. On February 15, 2007, Hungry Horse submitted the Stage 1 Groundwater Abatement Plan (*Apache Corporation State 1 Ground Water Abatement Plan (AP068) NEDU #527 Well Site API # 30-025-37242*, dated February 14, 2007). The groundwater abatement plan included among other things, installation of three (3) monitoring wells and the collection information to satisfy State 1 abatement plan requirements. No historical documentation could be identified to confirm the NMOCD's approval or denial of the groundwater abatement plan.

Hungry Horse installed three (3) monitoring wells (MW-1, MW-2, and MW-3) at the approximate locations presented on Figure 3. No drilling or completion details are available for these monitoring wells.

On June 5, 2019, Trinity Oilfield Services & Rentals, LLC, (Trinity) assumed remediation activities from Hungry Horse. Trinity prepared a document titled *Addendum to Stage 1 Groundwater Abatement Plan NEDU #527, Lea County, New Mexico*, dated June 2019 that reported observing three (3) monitoring wells during a visit to the Site on June 10, 2019. Trinity also reported the monitoring wells as being constructed with 2-inch schedule 40 PVC. No steel locking cover or concrete pads were observed at the wells. Trinity reported the wells with depths between 57.63 and 59.27 feet bgs and reported sediment buildup in the wells that were completed above the water table.

Trinity proposed removing the PVC casings from the three (3) wells (MW-1, MW-2, and MW-3); reentering and advancing the well bores to approximately 75 feet bgs, and recompleting with 2-inch schedule 40 PVC, concrete pads, J-plugs and locking steel monuments. Trinity also proposed the installation of monitor well MW-4 about 45 feet south and southeast of Borehole #3, to preserve the integrity and impermeability of the “double-cap” liner system, and monitoring well MW-5, about 180 feet downgradient (south and southeast) from well MW-4 near the south edge of the caliche well pad. The proposed depths for the monitoring wells were 75 feet bgs. Trinity proposed submitting a Stage 2 Groundwater Abatement Plan following four (4) consecutive quarters of groundwater monitoring. The *Addendum to Stage 1 Groundwater Abatement Plan NEDU #527, Lea County, New Mexico*, dated June 2019. Monitoring wells MW-4 and MW-5 were not

Mr. Billy Ginn
January 19, 2026
Page 3 of 4

drilled, and the addendum abatement plan was not identified in the NMOCD online imaging files for 1RP-113, incident tracking number nPAC0631334833 or abatement permit AP-068.

On May 25, 2021, Larson and Associates (LAI) of Midland, Texas was onsite to oversee the installation of the two additional monitor wells (MW-4 and MW-5) downgradient of the initial release source. The wells were installed to depths of 76.50 and 76.00 feet bgs, respectively and installed with 2-inch schedule 40 PVC. The wells have been continuously monitored quarterly since installation and light non-aqueous phase hydrocarbons (LNAPL), TPH, or BTEX have never been identified in the wells. However, during the initial year of monitoring, chloride concentrations above the above New Mexico Water Quality Control Commission standards (NMWQCC) were identified in both the wells for one or more quarters. Following the initial year of monitoring, no constituent of concern (COC) concentrations has been identified above the NMWQCC standards.

In January 2025, Hilcorp purchased the property along with the environmental liability from Apache Corporation.

3. Groundwater Gradient

On June 13, 2025, NTGE was onsite to complete the groundwater gauging and sampling event for the second quarter 2025. All five (5) monitor wells (MW-1 through MW-5) were gauged to determine the static groundwater depths and measure LNAPL, if any. Utilizing a water level indicator each of the wells was gauged from a mark on the north side of the well casing to the depth of the first encountered groundwater and to the base of the monitoring well. Three (3) of the monitoring wells (MW-1 through MW-3) were found to be dry and monitoring wells MW-4 and MW-5 were gauged at depths to groundwater of 60.99 ft bgs and 59.96 ft bgs, respectively. Since only two (2) of the five (5) monitoring wells had measurable water, a groundwater gradient map was not generated. However, based on previous reporting, it is presumed the groundwater gradient is to the southeast. The monitoring well locations are shown on Figure 4 and the current and historical monitoring well gauging data is included in Table 1.

4. Groundwater Monitoring and Sampling Procedures

Following the groundwater gauging activities, the monitoring wells with measurable groundwater were sampled. Prior to sampling, the wells were purged using a new polyethylene bailer until a minimum of three (3) well volumes (or wells bailed dry) were purged from each of the monitoring wells. The purge water was placed in an onsite fifty-five (55) gallon steel drum.

The wells were allowed to recharge within a minimum of 90% of the original gauging depth prior to sample collection. Once recharged, the wells were sampled with new disposal poly bailers and twine. The samples were placed into preserved laboratory provided sample containers, placed on ice, and transported to Eurofins Laboratory of Midland, Texas for analysis of BTEX by EPA Method 8260B, chlorides by EPA Method 300.0, and Total Dissolved Solids (TDS) by EPA Method SM 2540C.

5. Groundwater Sampling Results

Analytical results indicated all samples were below the NMWQCC standards for BTEX, chlorides, and TDS. Chlorides in monitoring wells MW-4 and MW-5 were 205 milligrams per Liter (mg/L) and 115 mg/L, respectively, while TDS in monitoring wells MW-4 and MW-5 were 627 mg/L and 487 mg/L, respectively. The two (2) monitor wells have remained below the NMWQCC standards since May 24, 2022. The analytical results are presented in Table 2. See Appendix A for laboratory analytical results.

Mr. Billy Ginn
January 19, 2026
Page 4 of 4

6. Conclusions and Recommendations

Based on the analytical results of this current and prior monitoring events indicating that the analytical results are below the NMWQCC standards for the last 12 quarters, it is believed the Site is nearing closure. However, given that three (3) of the monitoring wells (MW-1 through MW-3) have remained dry since 2021, NTGE suggests reinstalling a minimum of one (1) of these wells to a depth of 75 feet bgs in order to establish a groundwater gradient for the Site. In addition, the three (3) dry wells should be plugged and abandoned per New Mexico regulations. After installation of the one (1) monitor well, NTGE recommends the site should remain on quarterly sampling and if the analysis remains below NMWQCC standards for eight (8) consecutive quarters, Hilcorp should request closure of the site. See Figure 6 for proposed location of replacement monitor well.

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

Sincerely,
NTG Environmental

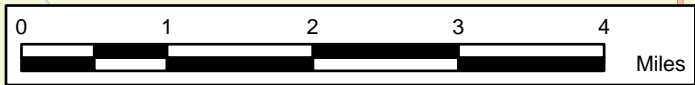
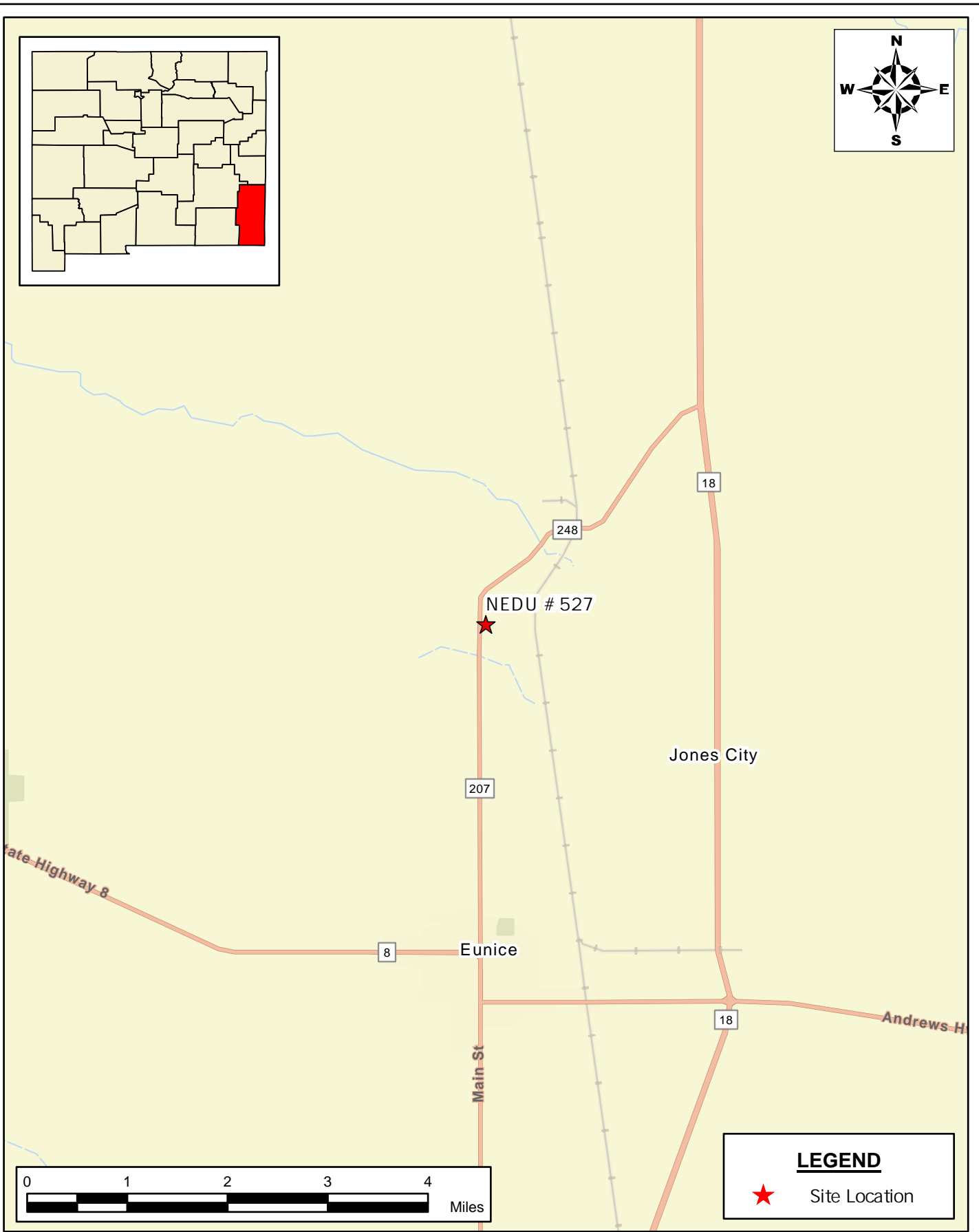
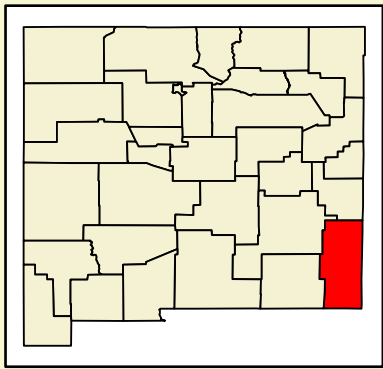


Jeff Kindley, P.G
Senior Project Manager/Geologist

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Monitor Well Location Map
- Figure 4 – Groundwater Gradient Map (June 13, 2025)
- Figure 5 – Hydrocarbon Concentration Map (June 13, 2025)
- Figure 6 – Proposed Monitor Well Installation Map
- Table 1 – Groundwater Elevation Data
- Table 2 – Groundwater Analytical Results
- Appendix A: - Laboratory Analytical Reports and Chain-of-Custody Documentation

FIGURES



LEGEND

★ Site Location

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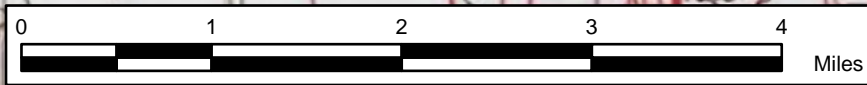
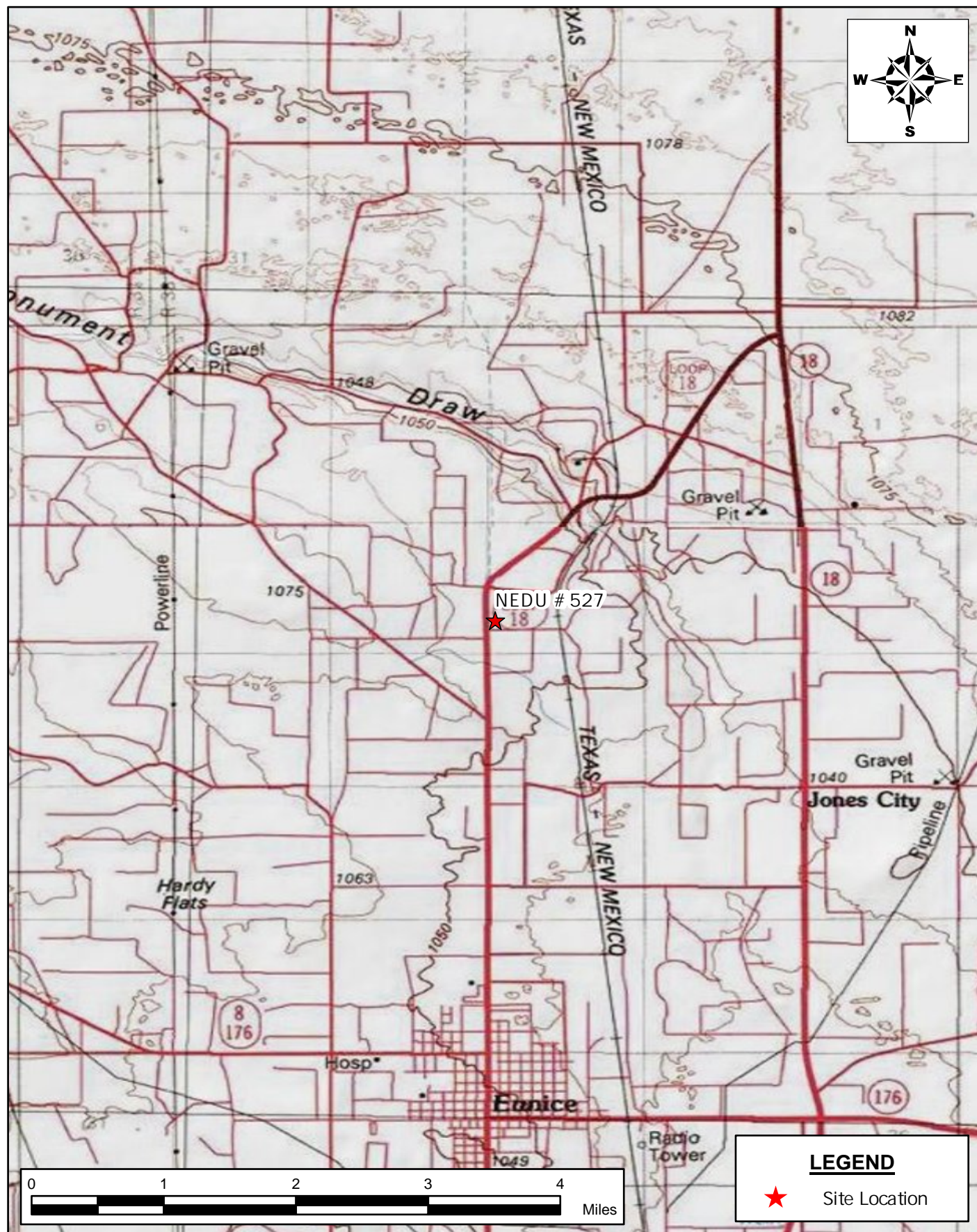
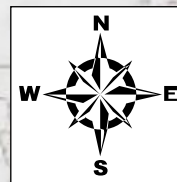
SITE LOCATION MAP
SITE PLAN
HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811, -103.158592

 **NTG**
 ENVIRONMENTAL
 New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com

NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1
 SHEET NUMBER:
1 of 1

SCALE: As Shown Date: 2/25/2025 PROJECT #: 259693



LEGEND

★ Site Location

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**TOPOGRAPHIC MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**

SCALE: As Shown Date: 2/25/2025 PROJECT #: 259693

NTG ENVIRONMENTAL

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 2

SHEET NUMBER:
1 of 1



LEGEND

● Monitor Well



Document Path: C:\Users\ntg\gis\Desktop\Geodatabase\Figure_3_MonitorWellMap_02252025.aprx

**MONITOR WELL LOCATION MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1

SCALE: As Shown

Date: 2/25/2025

PROJECT #: 259693

Document Path: C:\Users\ntg\gis\New_Tech_Global\NTGE - Documents\NTGE - Projects\2025 PROJECTS\HILCORP\RSC\259693 Northeast Drinkard Unit 52717 - Figures\GIS\Geodatabase\Figure_4_GroundwaterGradientMap_09162025.aprx



**GROUNDWATER GRADIENT MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N
3. Gauged on 6/13/25

DRAWING NUMBER:

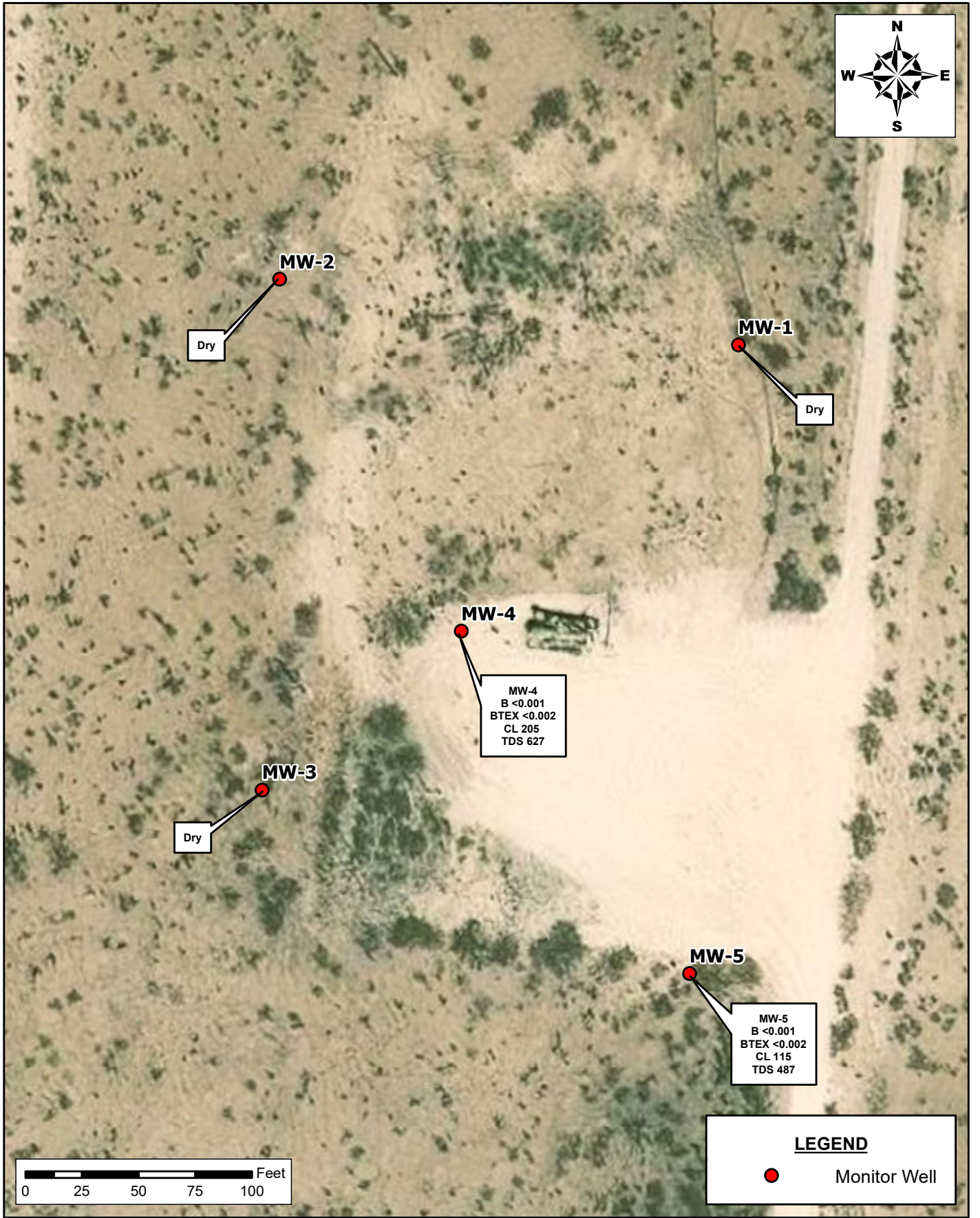
FIGURE 4

SHEET NUMBER:

1 of 1

SCALE: As Shown Date: 06/13/2025 PROJECT #: 259693

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GROUNDWATER CONCENTRATION MAP
 SITE PLAN
 HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811° -103.158592°

SCALE: AS SHOWN DATE: 06/24/2025 PROJECT #: 259693



New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenvironmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983
3. Sampled on June 13, 2025
4. Results in mg/L

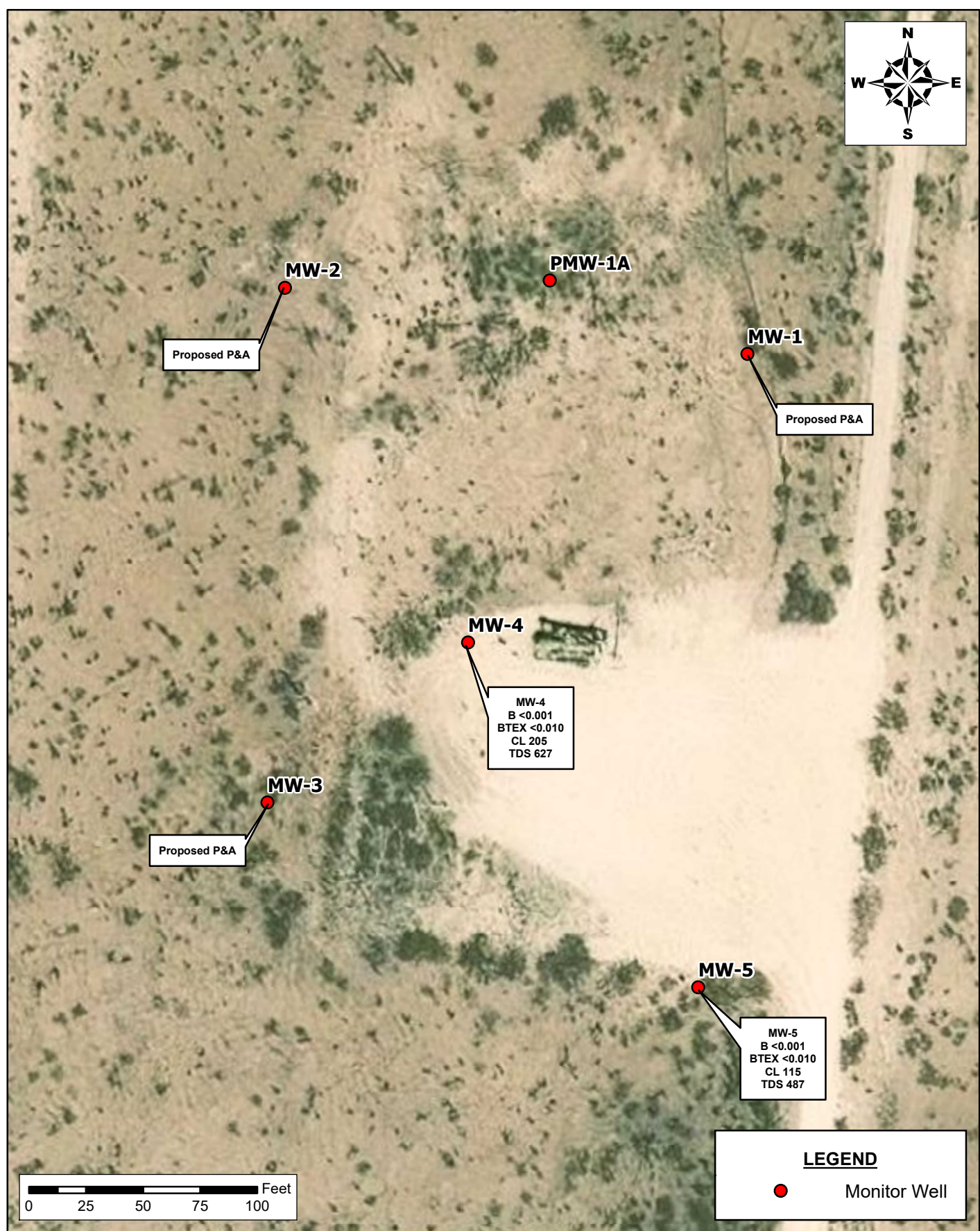
DRAWING NUMBER:

FIGURE 5

SHEET NUMBER:

1 of 1

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PROPOSED MONITOR WELL LOCATION MAP
 SITE PLAN
 HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811° -103.158592°

SCALE: AS SHOWN DATE: 07/10/2025 PROJECT #: 259693



New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenvironmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983
3. Contour Interval = 5'
4. Gauged March 13, 2025
5. Elevation in feet

DRAWING NUMBER:

FIGURE 6

SHEET NUMBER:

1 of 1

TABLES

**Groundwater Gauging Data and Corrected Groundwater Depth
Hilcorp Energy Company
NEDU 527
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			Dry			
MW-2			Dry			
MW-3			Dry			
MW-4 (Screen 55.82'-75.82')	06/01/21	3,466.99	61.81	0.00	0.00	3,405.18
	10/12/21	3,466.99	60.57	0.00	0.00	3,406.42
	12/21/21	3,466.99	60.60	0.00	0.00	3,406.39
	03/02/22	3,466.99	60.68	0.00	0.00	3,406.31
	05/24/22	3,466.99	60.71	0.00	0.00	3,406.28
	08/15/22	3,466.99	60.72	0.00	0.00	3,406.27
	12/12/22	3,466.99	60.40	0.00	0.00	3,406.59
	03/09/23	3,466.99	60.79	0.00	0.00	3,406.20
	06/06/23	3,466.99	60.85	0.00	0.00	3,406.14
	09/05/23	3,466.99	60.83	0.00	0.00	3,406.16
	12/19/23	3,466.99	60.82	0.00	0.00	3,406.17
	03/13/24	3,466.99	60.82	0.00	0.00	3,406.17
	07/25/24	3,466.99	60.91	0.00	0.00	3,406.08
	10/15/24	3,466.99	60.90	0.00	0.00	3,406.09
	03/13/25	3,466.99	60.88	0.00	0.00	3,406.11
06/13/25	3,466.99	60.90	0.00	0.00	3,406.09	
MW-5 (Screen 55.82'-75.82')	06/01/21	3,466.06	61.81	0.00	0.00	3,404.25
	10/12/21	3,466.06	60.57	0.00	0.00	3,405.49
	12/21/21	3,466.06	60.60	0.00	0.00	3,405.46
	03/02/22	3,466.06	60.68	0.00	0.00	3,405.38
	05/24/22	3,466.06	60.71	0.00	0.00	3,405.35
	08/15/22	3,466.06	60.72	0.00	0.00	3,405.34
	12/12/22	3,466.06	60.40	0.00	0.00	3,405.66
	03/09/23	3,466.06	60.79	0.00	0.00	3,405.27
	06/06/23	3,466.06	60.85	0.00	0.00	3,405.21
	09/05/23	3,466.06	60.83	0.00	0.00	3,405.23
	12/19/23	3,466.06	60.82	0.00	0.00	3,405.24
	03/13/24	3,466.06	60.82	0.00	0.00	3,405.24
	07/25/24	3,466.06	60.91	0.00	0.00	3,405.15
	10/15/24	3,466.06	60.90	0.00	0.00	3,405.16
	06/13/25	3,466.06	59.96	0.00	0.00	3,406.10
09/16/25	3,466.06	59.86	0.00	0.00	3,406.20	
03/13/25	3,466.06	59.89	0.00	0.00	3,406.17	
06/13/25	3,466.06	59.96	0.00	0.00	3,406.10	

Table 2
Groundwater Analytical Results
Hilcorp Energy Company
NEDU 527
Lea County, New Mexico

Sample ID	Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	Chlorides (mg/L)	TDS (mg/L)
MW-1	Dry							
MW-2	Dry							
MW-3	Dry							
MW-4	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	176	597
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	218	676
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	299	537
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	173	481
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	157	523
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	119	549
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	122	347
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	121	420
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	129	553
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	155	527
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	83.2	394
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	117	367
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	95.3	372
	10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	84.1	486
	03/13/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	86.2	407
06/13/25	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	205	627	
MW-5	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	306	761
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	303	757
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	293	709
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	276	764
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	240	667
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	176	665
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	192	508
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	193	531
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	243	734
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	235	654
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	151	491
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	242	540
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	212	543

Groundwater Analytical Results
Hilcorp Energy Company
NEDU 527
Lea County, New Mexico

Sample ID	Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	Chlorides (mg/L)	TDS (mg/L)
MW-5 (cont)	10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	169	588
	03/13/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	195	643
	06/13/25	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	115	487
DUP-1 (MW-5)	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	305	774
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	300	779
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	302	695
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	270	774
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	243	680
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	158	691
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	176	421
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	190	558
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	242	942
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	258	630
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	195	512
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	215	554
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	213	537
10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	160	576	
Regulatory Limits (mg/kg)		0.005*	1*	0.7*	0.62*	NA	250**	1,000***

- 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

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Kindley
NT Global

701 Tradewinds Blvd
Midland, Texas 79706

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JOB DESCRIPTION

Hilcorp NEDU #527
Lea County, New Mexico

JOB NUMBER

820-19412-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424



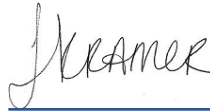
Eurofins Lubbock

Job Notes

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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
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Client: NT Global
Project/Site: Hilcorp NEDU #527

Laboratory Job ID: 820-19412-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
SDG: Lea County, New Mexico

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: Hilcorp NEDU #527

Job ID: 820-19412-1

Job ID: 820-19412-1

Eurofins Lubbock

Job Narrative 820-19412-1

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 6/16/2025 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 6.6°C.

GC/MS VOA

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-243362 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-112490 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: MW-5 (820-19412-2), (820-19412-A-2 MS) and (820-19412-A-2 MSD).

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: Hilcorp NEDU #527

Job ID: 820-19412-1
 SDG: Lea County, New Mexico

Client Sample ID: MW-4

Lab Sample ID: 820-19412-1

Date Collected: 06/13/25 17:00

Matrix: Water

Date Received: 06/16/25 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			06/19/25 00:47	1
Toluene	<0.00100	U	0.00100		mg/L			06/19/25 00:47	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			06/19/25 00:47	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			06/19/25 00:47	1
o-Xylene	<0.00100	U	0.00100		mg/L			06/19/25 00:47	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			06/19/25 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		06/19/25 00:47	1
4-Bromofluorobenzene (Surr)	93		74 - 124		06/19/25 00:47	1
Dibromofluoromethane (Surr)	102		75 - 131		06/19/25 00:47	1
Toluene-d8 (Surr)	97		80 - 120		06/19/25 00:47	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			06/19/25 00:47	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		2.50		mg/L			06/18/25 17:03	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	627		10.0		mg/L			06/19/25 09:27	1

Client Sample ID: MW-5

Lab Sample ID: 820-19412-2

Date Collected: 06/13/25 17:30

Matrix: Water

Date Received: 06/16/25 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			06/19/25 01:07	1
Toluene	<0.00100	U	0.00100		mg/L			06/19/25 01:07	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			06/19/25 01:07	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			06/19/25 01:07	1
o-Xylene	<0.00100	U	0.00100		mg/L			06/19/25 01:07	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			06/19/25 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		06/19/25 01:07	1
4-Bromofluorobenzene (Surr)	95		74 - 124		06/19/25 01:07	1
Dibromofluoromethane (Surr)	101		75 - 131		06/19/25 01:07	1
Toluene-d8 (Surr)	96		80 - 120		06/19/25 01:07	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			06/19/25 01:07	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115	F1	2.50		mg/L			06/18/25 17:10	5

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Client Sample Results

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
SDG: Lea County, New Mexico

Client Sample ID: MW-5

Lab Sample ID: 820-19412-2

Date Collected: 06/13/25 17:30

Matrix: Water

Date Received: 06/16/25 16:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	487		10.0		mg/L			06/19/25 09:27	1

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Surrogate Summary

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
 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)
820-19412-1	MW-4	101	93	102	97
820-19412-2	MW-5	100	95	101	96
860-103767-G-1 MS	Matrix Spike	93	104	96	101
LCS 860-243362/3	Lab Control Sample	93	103	96	102
LCS 860-243362/4	Lab Control Sample Dup	93	103	95	103
MB 860-243362/8	Method Blank	98	93	98	96

Surrogate Legend

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

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QC Sample Results

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 860-243362/8
 Matrix: Water
 Analysis Batch: 243362

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			06/18/25 23:25	1
Toluene	<0.00100	U	0.00100		mg/L			06/18/25 23:25	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			06/18/25 23:25	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			06/18/25 23:25	1
o-Xylene	<0.00100	U	0.00100		mg/L			06/18/25 23:25	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			06/18/25 23:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		06/18/25 23:25	1
4-Bromofluorobenzene (Surr)	93		74 - 124		06/18/25 23:25	1
Dibromofluoromethane (Surr)	98		75 - 131		06/18/25 23:25	1
Toluene-d8 (Surr)	96		80 - 120		06/18/25 23:25	1

Lab Sample ID: LCS 860-243362/3
 Matrix: Water
 Analysis Batch: 243362

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	0.04412		mg/L		88	75 - 125
Toluene	0.0500	0.04662		mg/L		93	75 - 130
Ethylbenzene	0.0500	0.04560		mg/L		91	75 - 125
m,p-Xylenes	0.0500	0.04532		mg/L		91	75 - 125
o-Xylene	0.0500	0.04557		mg/L		91	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 860-243362/4
 Matrix: Water
 Analysis Batch: 243362

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	0.04578		mg/L		92	75 - 125	4	25
Toluene	0.0500	0.04920		mg/L		98	75 - 130	5	25
Ethylbenzene	0.0500	0.04804		mg/L		96	75 - 125	5	25
m,p-Xylenes	0.0500	0.04787		mg/L		96	75 - 125	5	25
o-Xylene	0.0500	0.04787		mg/L		96	75 - 125	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	95		75 - 131
Toluene-d8 (Surr)	103		80 - 120

Eurofins Lubbock

QC Sample Results

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 860-103767-G-1 MS
Matrix: Water
Analysis Batch: 243362

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	<0.00100	U	0.0500	0.03297		mg/L		66	66 - 142
Toluene	<0.00100	U	0.0500	0.03491		mg/L		70	59 - 139
Ethylbenzene	<0.00100	U F1	0.0500	0.03432	F1	mg/L		69	75 - 125
m,p-Xylenes	<0.00200	U F1	0.0500	0.03418	F1	mg/L		68	75 - 125
o-Xylene	<0.00100	U F1	0.0500	0.03386	F1	mg/L		68	75 - 125
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	93		63 - 144						
4-Bromofluorobenzene (Surr)	104		74 - 124						
Dibromofluoromethane (Surr)	96		75 - 131						
Toluene-d8 (Surr)	101		80 - 120						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112490/3
Matrix: Water
Analysis Batch: 112490

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			06/18/25 13:31	1

Lab Sample ID: LCS 880-112490/4
Matrix: Water
Analysis Batch: 112490

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
Chloride	25.0	24.13		mg/L		97	90 - 110

Lab Sample ID: LCSD 880-112490/5
Matrix: Water
Analysis Batch: 112490

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
Chloride	25.0	24.47		mg/L		98	90 - 110	1	20

Lab Sample ID: 820-19412-2 MS
Matrix: Water
Analysis Batch: 112490

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Chloride	115	F1	125	254.8	F1	mg/L		112	90 - 110

Lab Sample ID: 820-19412-2 MSD
Matrix: Water
Analysis Batch: 112490

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Chloride	115	F1	125	257.6	F1	mg/L		114	90 - 110	1	20

Eurofins Lubbock

QC Sample Results

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 860-243503/1
 Matrix: Water
 Analysis Batch: 243503

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			06/19/25 08:42	1

Lab Sample ID: LCS 860-243503/2
 Matrix: Water
 Analysis Batch: 243503

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	975.0		mg/L		98	80 - 120

Lab Sample ID: 860-103649-A-4 DU
 Matrix: Water
 Analysis Batch: 243503

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	1590		1538		mg/L		4	10

QC Association Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
SDG: Lea County, New Mexico

GC/MS VOA

Analysis Batch: 243362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19412-1	MW-4	Total/NA	Water	8260D	
820-19412-2	MW-5	Total/NA	Water	8260D	
MB 860-243362/8	Method Blank	Total/NA	Water	8260D	
LCS 860-243362/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-243362/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-103767-G-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 244048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19412-1	MW-4	Total/NA	Water	Total BTEX	
820-19412-2	MW-5	Total/NA	Water	Total BTEX	

HPLC/IC

Analysis Batch: 112490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19412-1	MW-4	Total/NA	Water	300.0	
820-19412-2	MW-5	Total/NA	Water	300.0	
MB 880-112490/3	Method Blank	Total/NA	Water	300.0	
LCS 880-112490/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-112490/5	Lab Control Sample Dup	Total/NA	Water	300.0	
820-19412-2 MS	MW-5	Total/NA	Water	300.0	
820-19412-2 MSD	MW-5	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 243503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19412-1	MW-4	Total/NA	Water	SM 2540C	
820-19412-2	MW-5	Total/NA	Water	SM 2540C	
MB 860-243503/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-243503/2	Lab Control Sample	Total/NA	Water	SM 2540C	
860-103649-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
 SDG: Lea County, New Mexico

Client Sample ID: MW-4

Lab Sample ID: 820-19412-1

Date Collected: 06/13/25 17:00

Matrix: Water

Date Received: 06/16/25 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	243362	06/19/25 00:47	A1S	EET HOU
Total/NA	Analysis	Total BTEX		1			244048	06/19/25 00:47	KLV	EET HOU
Total/NA	Analysis	300.0		5	10 mL	10 mL	112490	06/18/25 17:03	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	243503	06/19/25 09:27	TR	EET HOU

Client Sample ID: MW-5

Lab Sample ID: 820-19412-2

Date Collected: 06/13/25 17:30

Matrix: Water

Date Received: 06/16/25 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	243362	06/19/25 01:07	A1S	EET HOU
Total/NA	Analysis	Total BTEX		1			244048	06/19/25 01:07	KLV	EET HOU
Total/NA	Analysis	300.0		5	10 mL	10 mL	112490	06/18/25 17:10	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	243503	06/19/25 09:27	TR	EET HOU

Laboratory References:

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

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
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	06-30-25
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

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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Method Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
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 MID
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
- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-19412-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-19412-1	MW-4	Water	06/13/25 17:00	06/16/25 16:15
820-19412-2	MW-5	Water	06/13/25 17:30	06/16/25 16:15

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Login Sample Receipt Checklist

Client: NT Global

Job Number: 820-19412-1
SDG Number: Lea County, New Mexico

Login Number: 19412

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: 820-19412-1
SDG Number: Lea County, New Mexico

Login Number: 19412

List Number: 2

Creator: Torrez, Lisandra

List Source: Eurofins Houston

List Creation: 06/18/25 11:43 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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: 820-19412-1
SDG Number: Lea County, New Mexico

Login Number: 19412
List Number: 3
Creator: Lee, Randall

List Source: Eurofins Midland
List Creation: 06/18/25 06:00 PM

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.	N/A	
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").	N/A	

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701 Tradewinds Blvd
Midland, Texas 79707
Tel. 432-766-1918
www.ntgenvironmental.com

October 10, 2025

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

**Re: 2025 Q3 Groundwater Monitoring Report
Northeast Drinkard Unit (NEDU) 527 Site
Unit Letter L, Sec 10, T21S, R37E
GPS Coordinates: 32.489811°N, -103.158592°W
Lea County, New Mexico
NMOCD Release Number: nPAC0631334833**

1. Introduction

New Tech Global Environmental, LLC (NTGE) on behalf of Hilcorp Energy Company (Hilcorp), has prepared this 2025 Q3 Groundwater Monitoring Report for submittal to the New Mexico Oil Conservation Division (NMOCD) District 1 in Hobbs, and Santa Fe, New Mexico. This report presents the 2025 third (3rd) quarter laboratory analysis of groundwater samples collected from two (2) of five (5) monitor wells (MW-4 and MW-5), with the remaining wells (MW-1 through MW-3) being dry at the NEDU 527 (Site) located in Unit Letter L, Section 10, Township 21 South, Range 37 East, in Lea County, New Mexico. The geodetic position is latitude 32.489811° N, longitude -103.158592° W. See Figures 1 and 2 for Site Location and Topographic Maps.

2. Background

A produced water release occurred due to a compromised liner during the excavation of the drilling pit. An unknown volume of brine water migrated beneath the pit liner and into the underlying soil. On July 19, 2006, notice was given to Mr. Larry Johnson (NMOCD District 1) and Mr. Glen VonGonten (NMOCD Santa Fe) by Mr. Jerry Brian of Hungry Horse Environmental (Hungry Horse). The surface owner is the State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). On November 6, 2006, Hungry Horse, on behalf of Apache, submitted the initial C-141 to the NMOCD, which was approved on November 9, 2006, and assigned remediation permit number 1RP-1113 and incident tracking number nPAC063133483.

Hungry Horse commenced remediation of the drilling pit on July 23, 2006, and excavated soil to approximately ten (10) feet below ground surface (bgs). On July 31, 2006, Hungry Horse personnel collected soil samples from the base of the excavation (northeast, center, and southeast) at approximately ten (10) feet bgs and near the southwest corner at approximately twelve (12) feet bgs. Cardinal Laboratories of Hobbs, New Mexico analyzed the soil samples and reported chloride concentrations between 2,255 milligrams per kilogram (mg/Kg) near the center of the excavation at ten (10) feet bgs and 26,872 mg/Kg in the southwest sample at twelve (12) feet bgs.

Between July 31, 2006, and September 6, 2006, Hungry Horse deepened the excavation between 14 feet bgs and 19 feet bgs. On August 8, 2006, a base sample was collected near the center of the excavation (C. WRK.PIT) from fourteen (14) feet bgs, with a reported chloride concentration of 176 mg/Kg. On September 6, 2006, base samples with reported chloride concentrations of 224 mg/Kg (E – Working Pit – 19' bgs), 288

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January 19, 2026
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mg/Kg (NE -19' bgs), and 1,935 mg/Kg (SE – 19' bgs) were collected. Hungry Horse hauled approximately 9,000 cubic yards of excavated soil to Sundance Services, Inc., located near Eunice, New Mexico for final disposition.

Between September 14 and 19, 2006, Hungry Horse personnel drilled four (4) boreholes (BH #1 through BH #4) in the base of the excavation using a truck-mounted hollow stem auger rig and split spoon sampler to vertically delineate the extent of chloride impacts. Boreholes #1, #2, #3, and #4 were drilled near the northeast (NE), southeast (SE), southwest (SW), and northwest (NW) quadrants, respectively. Soil samples were collected every five (5) feet to a depth of 35 ft bgs in BH #1 and BH #2 and a depth of 62 ft bgs in BH#3 whereby groundwater was encountered. Borehole BH#4 was advanced to a depth of 55 ft bgs.

Samples collected at the boring terminus in BH#1 and BH#2 exhibited chloride concentrations of 48 mg/Kg and 128 mg/Kg, respectively. A soil sample collected from 55 ft bgs in BH#3 exhibited a chloride concentration of 1,695 mg/Kg and a sample collected from 50 bgs in BH#4 exhibited a chloride concentration of 16 mg/Kg. A groundwater sample also collected from BH#3 which exhibited a chloride concentration of 2,007 milligrams per liter (mg/L). All samples were analyzed for chloride by Cardinal Laboratories (Cardinal) in Hobbs, New Mexico.

According to historical documentation (Trinity Oilfield Services and Rental, LLC, June 2019) the boreholes were plugged and abandoned (P&A), the base of the excavation was “double-capped” with two (2) plastic liners and backfilled to the surface to inhibit the vertical migration of contaminants below 21 feet bgs.

On September 19, 2006, NMOCD was informed of the groundwater impact, and issued abatement permit number AP-068, on November 29, 2006, that required Apache (original owner of the property) to submit an abatement plan in accordance with NMOCD Rule 19 (19.15.1.19 NMAC) for groundwater contamination from the drilling pit at NEDU #527. On February 15, 2007, Hungry Horse submitted the Stage 1 Groundwater Abatement Plan (*Apache Corporation State 1 Ground Water Abatement Plan (AP068) NEDU #527 Well Site API # 30-025-37242*, dated February 14, 2007). The groundwater abatement plan included among other things, installation of three (3) monitoring wells and the collection information to satisfy State 1 abatement plan requirements. No historical documentation could be identified to confirm the NMOCD's approval or denial of the groundwater abatement plan.

Hungry Horse installed three (3) monitoring wells (MW-1, MW-2, and MW-3) at the approximate locations presented on Figure 3. No drilling or completion details are available for these monitoring wells.

On June 5, 2019, Trinity Oilfield Services & Rentals, LLC, (Trinity) assumed remediation activities from Hungry Horse. Trinity prepared a document titled *Addendum to Stage 1 Groundwater Abatement Plan NEDU #527, Lea County, New Mexico*, dated June 2019 that reported observing three (3) monitoring wells during a visit to the Site on June 10, 2019. Trinity also reported the monitoring wells as being constructed with 2-inch schedule 40 PVC. No steel locking cover or concrete pads were observed at the wells. Trinity reported the wells with depths between 57.63 and 59.27 feet bgs and reported sediment buildup in the wells that were completed above the water table.

Trinity proposed removing the PVC casings from the three (3) wells (MW-1, MW-2, and MW-3); reentering and advancing the well bores to approximately 75 feet bgs, and recompleting with 2-inch schedule 40 PVC, concrete pads, J-plugs and locking steel monuments. Trinity also proposed the installation of monitor well MW-4 about 45 feet south and southeast of Borehole #3, to preserve the integrity and impermeability of the “double-cap” liner system, and monitoring well MW-5, about 180 feet downgradient (south and southeast) from well MW-4 near the south edge of the caliche well pad. The proposed depths for the monitoring wells were 75 feet bgs. Trinity proposed submitting a Stage 2 Groundwater Abatement Plan following four (4) consecutive quarters of groundwater monitoring. The *Addendum to Stage 1 Groundwater Abatement Plan NEDU #527, Lea County, New Mexico*, dated June 2019. Monitoring wells MW-4 and MW-5 were not

Mr. Billy Ginn
January 19, 2026
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drilled, and the addendum abatement plan was not identified in the NMOCD online imaging files for 1RP-113, incident tracking number nPAC0631334833 or abatement permit AP-068.

On May 25, 2021, Larson and Associates (LAI) of Midland, Texas was onsite to oversee the installation of the two additional monitor wells (MW-4 and MW-5) downgradient of the initial release source. The wells were installed to depths of 76.50 and 76.00 feet bgs, respectively and installed with 2-inch schedule 40 PVC. The wells have been continuously monitored quarterly since installation with no light non-aqueous phase hydrocarbons (LNAPL), TPH, or BTEX having been identified in the wells. However, during the initial year of monitoring, chloride concentrations above the above New Mexico Water Quality Control Commission standards (NMWQCC) were identified in both the wells for one or more quarters. Following the initial year of monitoring, no constituent of concern (COC) concentrations has been identified above the NMWQCC standards.

In January 2025, Hilcorp purchased the property along with the environmental liability from Apache Corporation.

3. Groundwater Gradient

On September 16, 2025, NTGE was onsite to complete the groundwater gauging and sampling event for the third quarter of 2025. All five (5) monitor wells (MW-1 through MW-5) were gauged to determine the static groundwater depths and measurable LNAPL, if any. Utilizing a water level indicator each of the wells was gauged from a mark on the north side of the well casing to the depth of the first encountered groundwater and to the base of the monitoring well. Three (3) of the monitoring wells (MW-1 through MW-3) were found to be dry and monitoring wells MW-4 and MW-5 were gauged at depths to groundwater of 60.82 ft bgs and 59.86 ft bgs, respectively. Since only two (2) of the five (5) monitoring wells had measurable water, a groundwater gradient map was not generated. However, based on previous reporting, it is presumed the groundwater gradient is to the southeast. The monitoring well locations are shown on Figure 4 and the current and historical monitoring well gauging data is included in Table 1.

4. Groundwater Monitoring and Sampling Procedures

Following the groundwater gauging activities, the monitoring wells with measurable groundwater were sampled. Prior to sampling, the wells were purged using a new polyethylene bailer until a minimum of three (3) well volumes were purged (or wells bailed dry) from each of the monitoring wells. The purge water was placed in an onsite fifty-five (55) gallon steel drum.

The wells were allowed to recharge within a minimum of 90% of the original gauging depth prior to sample collection. Once recharged, the wells were sampled with new disposal poly bailers and twine. The samples were placed into preserved laboratory provided sample containers, placed on ice, and transported to Eurofins Laboratory of Midland, Texas for analysis of BTEX by EPA Method 8260B, chlorides by EPA Method 300.0, and Total Dissolved Solids (TDS) by EPA Method SM 2540C.

5. Groundwater Sampling Results

Analytical results indicated all samples were below the NMWQCC standards for BTEX, chlorides, and TDS. Chlorides in monitoring wells MW-4 and MW-5 were 78.5 milligrams per Liter (mg/L) and 242 mg/L, respectively, while TDS in monitoring wells MW-4 and MW-5 were 574 mg/L and 540 mg/L, respectively. The two (2) monitor wells have remained below the NMWQCC standards since May 24, 2022. The analytical results are presented in Table 2. See Appendix A for laboratory analytical results.

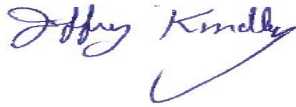
Mr. Billy Ginn
January 19, 2026
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6. Conclusions and Recommendations

Based on the analytical results of this current and prior monitoring events indicating that the analytical results are below the NMWQCC standards for the last 13 quarters, it is believed the Site is nearing closure. However, given that three (3) of the monitoring wells (MW-1 through MW-3) have remained dry since 2021, NTGE suggests reinstalling a minimum of one (1) of these wells to a depth of 75 feet bgs in order to establish a groundwater gradient for the Site. In addition, the three (3) dry wells should be plugged and abandoned per New Mexico regulations. After installation of the one (1) monitor well, NTGE recommends the site should remain on quarterly sampling and if the analysis remains below NMWQCC standards for eight (8) consecutive quarters, Hilcorp should request closure of the site. See Figure 6 for proposed location of replacement monitor well.

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

Sincerely,
NTG Environmental

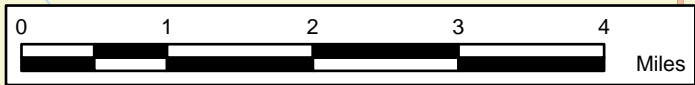
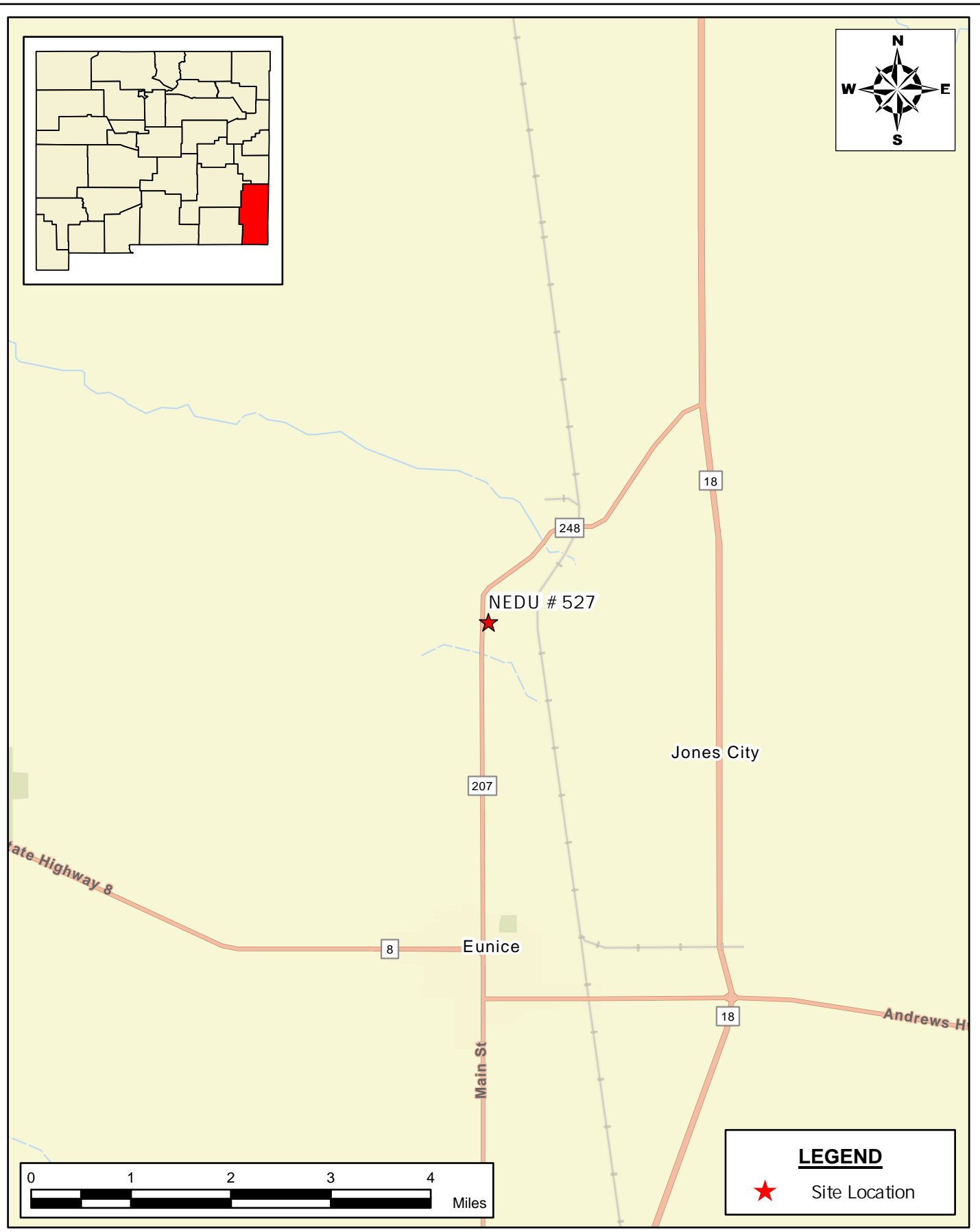
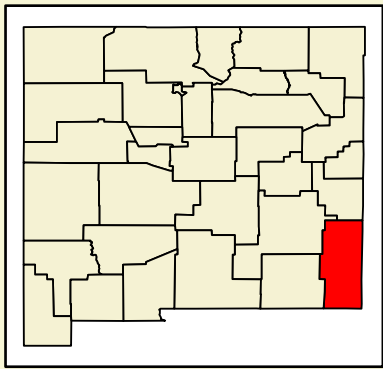


Jeff Kindley, P.G
Senior Project Manager/Geologist

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Monitor Well Location Map
- Figure 4 – Groundwater Gradient Map (September 16, 2025)
- Figure 5 – Hydrocarbon Concentration Map (September 16, 2025)
- Figure 6 – Proposed Monitor Well Installation Map
- Table 1 – Groundwater Elevation Data
- Table 2 – Groundwater Analytical Results
- Appendix A: - Laboratory Analytical Reports and Chain-of-Custody Documentation

FIGURES



LEGEND

★ Site Location

Document Path: C:\Users\ntg\gis\Desktop\Geodatabase\Figure_1_SLM\Map_02252025.aprx

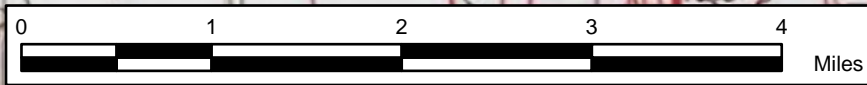
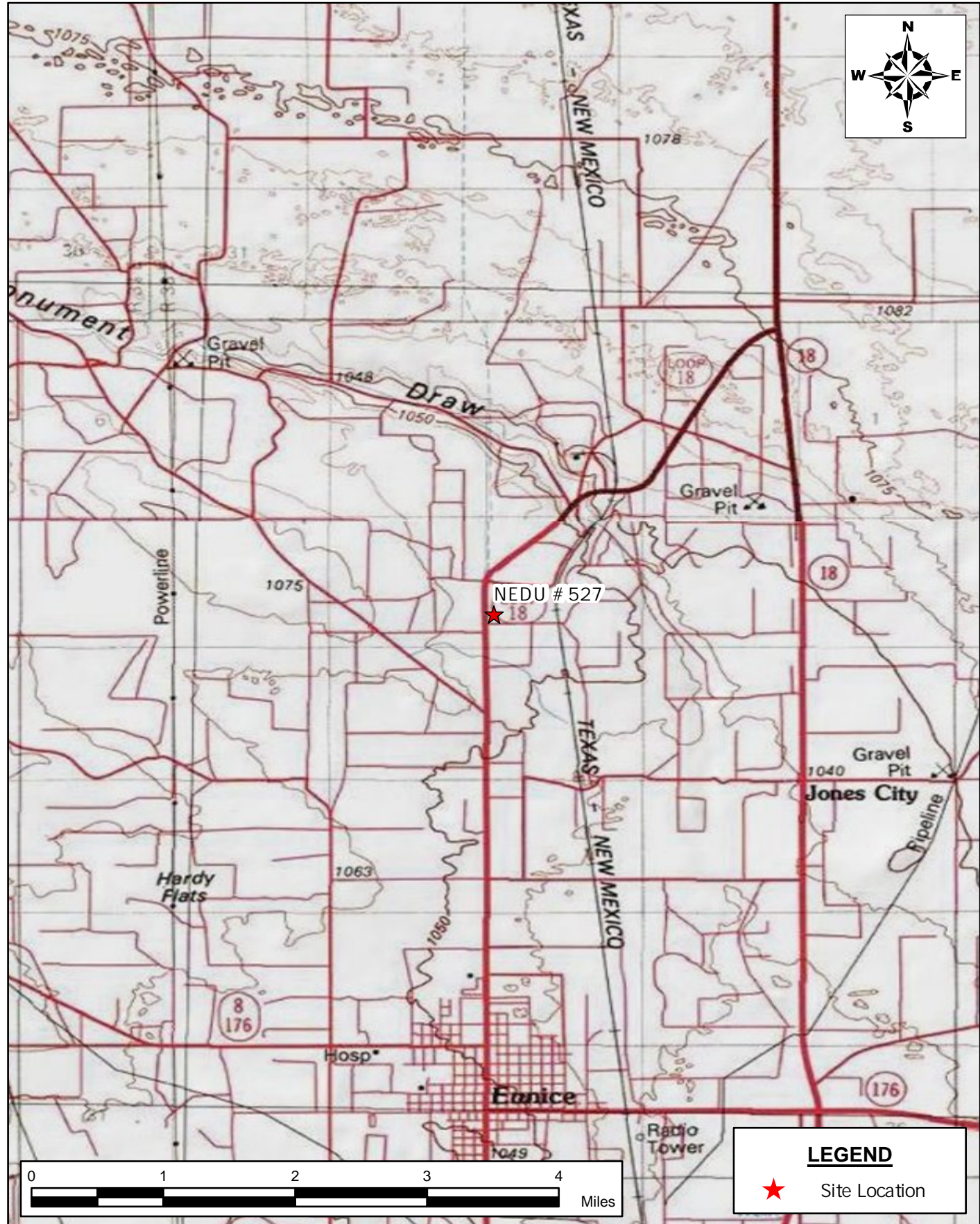
SITE LOCATION MAP
SITE PLAN
HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811, -103.158592

 **NTG ENVIRONMENTAL**
 New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com

NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1
 SHEET NUMBER:
1 of 1

SCALE: As Shown Date: 2/25/2025 PROJECT #: 259693



LEGEND

★ Site Location

Document Path: C:\Users\ntg\gis\Desktop\Geodatabase\Figure_2_TopoMap_02252025.aprx

**TOPOGRAPHIC MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**

SCALE: As Shown Date: 2/25/2025 PROJECT #: 259693

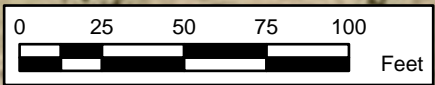
NTG ENVIRONMENTAL

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
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F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
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FIGURE 2
SHEET NUMBER:
1 of 1



LEGEND

● Monitor Well

Document Path: C:\Users\ntg\gis\Desktop\Geodatabase\Figure_3_MonitorWellMap_02252025.aprx

MONITOR WELL LOCATION MAP
SITE PLAN
HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811, -103.158592



New Tech Global Environmental, LLC
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 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com

NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1

SCALE: As Shown Date: 2/25/2025 PROJECT #: 259693

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**GROUNDWATER GRADIENT MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N
3. Gauged on 09/16/25

DRAWING NUMBER:

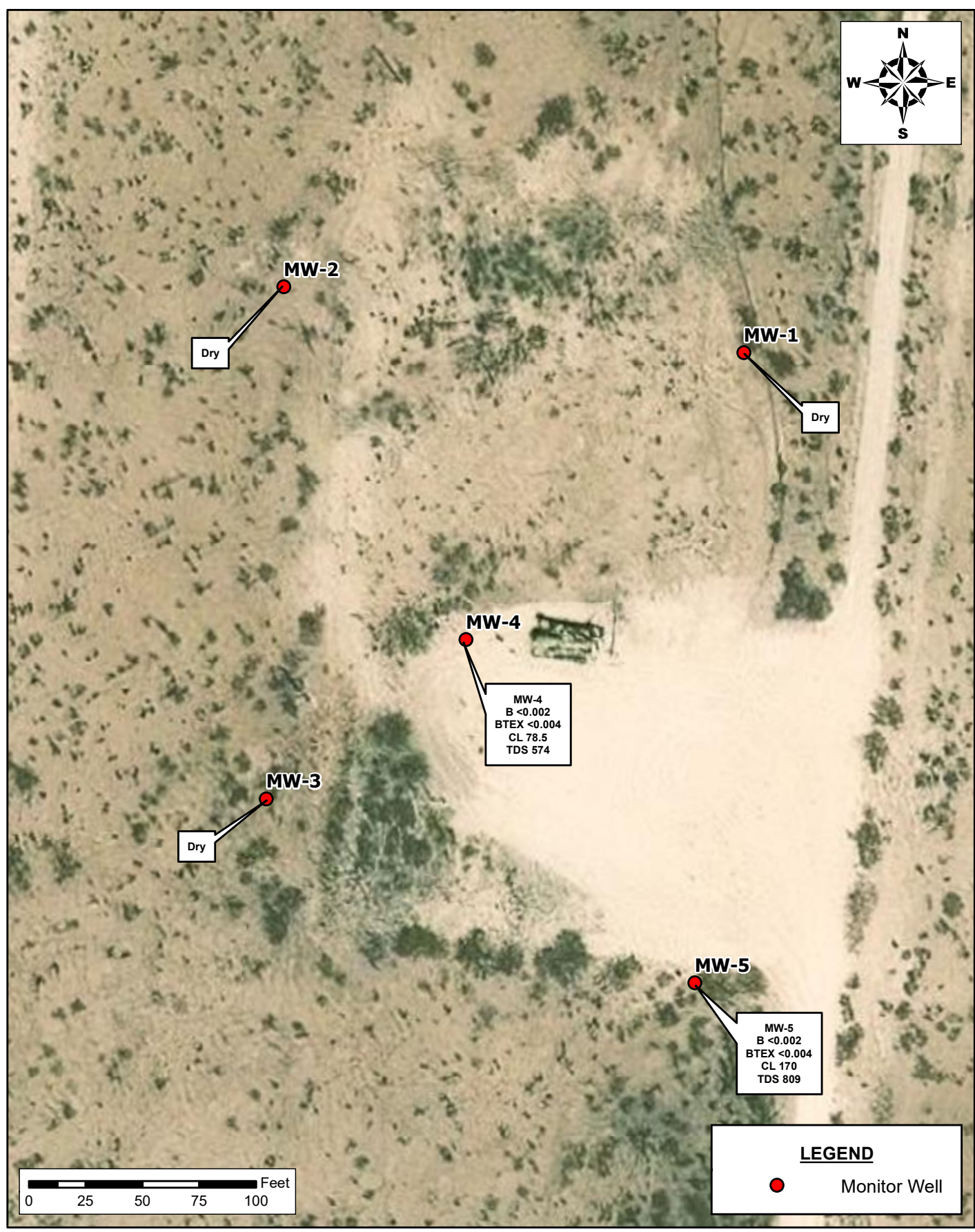
FIGURE 4

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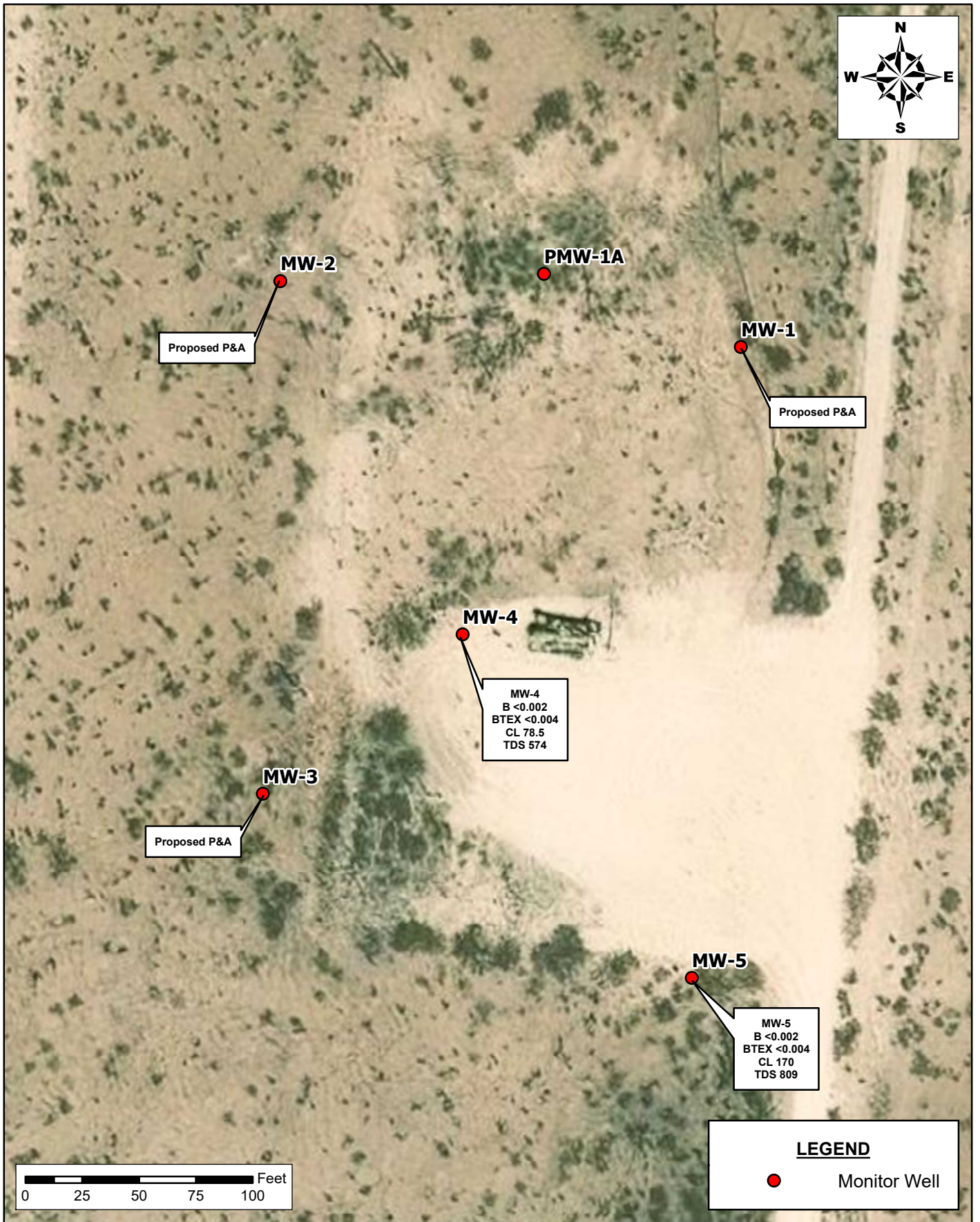
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SCALE: As Shown Date: 09/16/2025 PROJECT #: 259693

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PROPOSED MONITOR WELL LOCATION MAP
 SITE PLAN
 HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811° -103.158592°



New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenvironmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983
3. Contour Interval = 5'
4. Gauged March 13, 2025
5. Elevation in feet

DRAWING NUMBER:

FIGURE 6

SHEET NUMBER:

1 of 1

SCALE: AS SHOWN DATE: 07/10/2025 PROJECT #: 259693

TABLES

Table 1
Groundwater Gauging Data and Corrected Groundwater Depth
Hilcorp Energy Company
NEDU 527
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			Dry			
MW-2			Dry			
MW-3			Dry			
MW-4 (Screen 55.82'-75.82')	06/01/21	3,466.99	61.81	0.00	0.00	3,405.18
	10/12/21	3,466.99	60.57	0.00	0.00	3,406.42
	12/21/21	3,466.99	60.60	0.00	0.00	3,406.39
	03/02/22	3,466.99	60.68	0.00	0.00	3,406.31
	05/24/22	3,466.99	60.71	0.00	0.00	3,406.28
	08/15/22	3,466.99	60.72	0.00	0.00	3,406.27
	12/12/22	3,466.99	60.40	0.00	0.00	3,406.59
	03/09/23	3,466.99	60.79	0.00	0.00	3,406.20
	06/06/23	3,466.99	60.85	0.00	0.00	3,406.14
	09/05/23	3,466.99	60.83	0.00	0.00	3,406.16
	12/19/23	3,466.99	60.82	0.00	0.00	3,406.17
	03/13/24	3,466.99	60.82	0.00	0.00	3,406.17
	07/25/24	3,466.99	60.91	0.00	0.00	3,406.08
	10/15/24	3,466.99	60.90	0.00	0.00	3,406.09
	03/13/25	3,466.99	60.88	0.00	0.00	3,406.11
	06/13/25	3,466.99	60.90	0.00	0.00	3,406.09
09/16/25	3,466.99	60.82	0.00	0.00	3,406.17	
MW-5 (Screen 55.82'-75.82')	06/01/21	3,466.06	61.81	0.00	0.00	3,404.25
	10/12/21	3,466.06	60.57	0.00	0.00	3,405.49
	12/21/21	3,466.06	60.60	0.00	0.00	3,405.46
	03/02/22	3,466.06	60.68	0.00	0.00	3,405.38
	05/24/22	3,466.06	60.71	0.00	0.00	3,405.35
	08/15/22	3,466.06	60.72	0.00	0.00	3,405.34
	12/12/22	3,466.06	60.40	0.00	0.00	3,405.66
	03/09/23	3,466.06	60.79	0.00	0.00	3,405.27
	06/06/23	3,466.06	60.85	0.00	0.00	3,405.21
	09/05/23	3,466.06	60.83	0.00	0.00	3,405.23
	12/19/23	3,466.06	60.82	0.00	0.00	3,405.24
	03/13/24	3,466.06	60.82	0.00	0.00	3,405.24
	07/25/24	3,466.06	60.91	0.00	0.00	3,405.15
	10/15/24	3,466.06	60.90	0.00	0.00	3,405.16
	06/13/25	3,466.06	59.96	0.00	0.00	3,406.10
09/16/25	3,466.06	59.86	0.00	0.00	3,406.20	

Table 1
Groundwater Gauging Data and Corrected Groundwater Depth
Hilcorp Energy Company
NEDU 527
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-5 (Cont)	03/13/25	3,466.06	59.89	0.00	0.00	3,406.17
	06/13/25	3,466.06	59.96	0.00	0.00	3,406.10
	09/16/25	3,466.06	59.86	0.00	0.00	3,406.20

**Table 2
Groundwater Analytical Results
Hilcorp Energy Company
NEDU 527
Lea County, New Mexico**

Sample ID	Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	Chlorides (mg/L)	TDS (mg/L)
MW-1	Dry							
MW-2	Dry							
MW-3	Dry							
MW-4	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	176	597
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	218	676
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	299	537
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	173	481
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	157	523
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	119	549
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	122	347
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	121	420
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	129	553
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	155	527
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	83.2	394
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	117	367
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	95.3	372
	10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	84.1	486
	03/13/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	86.2	407
06/13/25	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	205	627	
09/16/25	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	78.5	574	
MW-5	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	306	761
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	303	757
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	293	709
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	276	764
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	240	667
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	176	665
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	192	508
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	193	531
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	243	734
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	235	654
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	151	491

**Table 2
Groundwater Analytical Results
Hilcorp Energy Company
NEDU 527
Lea County, New Mexico**

Sample ID	Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	Chlorides (mg/L)	TDS (mg/L)
MW-5 (Cont)	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	242	540
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	212	543
	10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	169	588
	03/13/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	195	643
	06/13/25	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	115	487
	09/16/25	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	170	809
DUP-1 (MW-5)	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	305	774
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	300	779
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	302	695
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	270	774
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	243	680
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	158	691
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	176	421
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	190	558
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	242	942
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	258	630
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	195	512
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	215	554
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	213	537
	10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	160	576
Regulatory Limits (mg/kg)		0.005*	1*	0.7*	0.62*	NA	250**	1,000***

- 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

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Kindley
NT Global

701 Tradewinds Blvd
Midland, Texas 79706

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JOB DESCRIPTION

Hilcorp NEDU #527
259693

JOB NUMBER

820-21074-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424



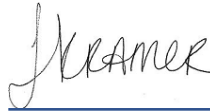
Eurofins Lubbock

Job Notes

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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
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Client: NT Global
Project/Site: Hilcorp NEDU #527

Laboratory Job ID: 820-21074-1
SDG: 259693

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Definitions/Glossary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
SDG: 259693

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: Hilcorp NEDU #527

Job ID: 820-21074-1

Job ID: 820-21074-1

Eurofins Lubbock

Job Narrative 820-21074-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/19/2025 4:59 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 2.2°C.

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-119630 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-5 (820-21074-2), (CCV 880-119630/20) and (CCV 880-119630/33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-119609 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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.

Eurofins Lubbock

Client Sample Results

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
 SDG: 259693

Client Sample ID: MW-4

Lab Sample ID: 820-21074-1

Date Collected: 09/16/25 10:00

Matrix: Water

Date Received: 09/19/25 16:59

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/L			09/24/25 18:10	1
Toluene	<0.00200	U	0.00200		mg/L			09/24/25 18:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			09/24/25 18:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			09/24/25 18:10	1
o-Xylene	<0.00200	U	0.00200		mg/L			09/24/25 18:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			09/24/25 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130		09/24/25 18:10	1
1,4-Difluorobenzene (Surr)	90		70 - 130		09/24/25 18:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			09/24/25 18:10	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.5		2.50		mg/L			09/23/25 22:23	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	574		10.0		mg/L			09/23/25 16:26	1

Client Sample ID: MW-5

Lab Sample ID: 820-21074-2

Date Collected: 09/16/25 11:00

Matrix: Water

Date Received: 09/19/25 16:59

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/L			09/24/25 18:31	1
Toluene	<0.00200	U	0.00200		mg/L			09/24/25 18:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			09/24/25 18:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			09/24/25 18:31	1
o-Xylene	<0.00200	U	0.00200		mg/L			09/24/25 18:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			09/24/25 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130		09/24/25 18:31	1
1,4-Difluorobenzene (Surr)	84		70 - 130		09/24/25 18:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			09/24/25 18:31	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		2.50		mg/L			09/23/25 22:39	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	809		10.0		mg/L			09/23/25 16:26	1

Eurofins Lubbock

Surrogate Summary

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
 SDG: 259693

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
820-21074-1	MW-4	120	90
820-21074-2	MW-5	138 S1+	84
880-62992-C-1 MS	Matrix Spike	115	90
880-62992-C-1 MSD	Matrix Spike Duplicate	126	97
LCS 880-119630/3	Lab Control Sample	125	105
LCSD 880-119630/4	Lab Control Sample Dup	118	94
MB 880-119630/8	Method Blank	126	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DFBZ = 1,4-Difluorobenzene (Surr)

- 1
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- 13
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QC Sample Results

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
SDG: 259693

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-119630/8
Matrix: Water
Analysis Batch: 119630

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			09/24/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/L			09/24/25 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			09/24/25 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			09/24/25 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/L			09/24/25 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			09/24/25 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130		09/24/25 11:49	1
1,4-Difluorobenzene (Surr)	93		70 - 130		09/24/25 11:49	1

Lab Sample ID: LCS 880-119630/3
Matrix: Water
Analysis Batch: 119630

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.06693	*-	mg/L		67	70 - 130
Toluene	0.100	0.08055		mg/L		81	70 - 130
Ethylbenzene	0.100	0.08432		mg/L		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1754		mg/L		88	70 - 130
o-Xylene	0.100	0.09080		mg/L		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-119630/4
Matrix: Water
Analysis Batch: 119630

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	0.100	0.05898	*-	mg/L		59	70 - 130	13	20
Toluene	0.100	0.07467		mg/L		75	70 - 130	8	20
Ethylbenzene	0.100	0.07703		mg/L		77	70 - 130	9	20
m-Xylene & p-Xylene	0.200	0.1620		mg/L		81	70 - 130	8	20
o-Xylene	0.100	0.08438		mg/L		84	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-62992-C-1 MS
Matrix: Water
Analysis Batch: 119630

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U *-	0.100	0.09159		mg/L		92	70 - 130
Toluene	<0.00200	U	0.100	0.09641		mg/L		96	70 - 130

Eurofins Lubbock

QC Sample Results

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
 SDG: 259693

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-62992-C-1 MS
 Matrix: Water
 Analysis Batch: 119630

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

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits	
	Result	Qualifier		Result	Qualifier					
Ethylbenzene	<0.00200	U	0.100	0.09653		mg/L		97	70 - 130	
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1950		mg/L		97	70 - 130	
o-Xylene	<0.00200	U	0.100	0.09928		mg/L		99	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	115		70 - 130							
1,4-Difluorobenzene (Surr)	90		70 - 130							

Lab Sample ID: 880-62992-C-1 MSD
 Matrix: Water
 Analysis Batch: 119630

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

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U *-	0.100	0.08428		mg/L		84	70 - 130	8	25
Toluene	<0.00200	U	0.100	0.1018		mg/L		102	70 - 130	5	25
Ethylbenzene	<0.00200	U	0.100	0.1059		mg/L		106	70 - 130	9	25
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2201		mg/L		110	70 - 130	12	25
o-Xylene	<0.00200	U	0.100	0.1116		mg/L		112	70 - 130	12	25
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	126		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-119609/3
 Matrix: Water
 Analysis Batch: 119609

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			09/23/25 21:36	1

Lab Sample ID: LCS 880-119609/4
 Matrix: Water
 Analysis Batch: 119609

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.02		mg/L		100	90 - 110

Lab Sample ID: LCSD 880-119609/5
 Matrix: Water
 Analysis Batch: 119609

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	25.0	25.15		mg/L		101	90 - 110	1	20

QC Sample Results

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
 SDG: 259693

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 820-21069-B-1 MS
 Matrix: Water
 Analysis Batch: 119609

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	897	F1	500	1819	F1	mg/L		185	90 - 110

Lab Sample ID: 820-21069-B-1 MSD
 Matrix: Water
 Analysis Batch: 119609

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	897	F1	500	1828	F1	mg/L		186	90 - 110	0	20

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

Lab Sample ID: MB 860-263920/1
 Matrix: Water
 Analysis Batch: 263920

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			09/23/25 16:26	1

Lab Sample ID: LCS 860-263920/2
 Matrix: Water
 Analysis Batch: 263920

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	973.0		mg/L		97	80 - 120

Lab Sample ID: 820-21069-A-2 DU
 Matrix: Water
 Analysis Batch: 263920

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	1390		1306		mg/L		6	10

QC Association Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
SDG: 259693

GC VOA

Analysis Batch: 119630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-21074-1	MW-4	Total/NA	Water	8021B	
820-21074-2	MW-5	Total/NA	Water	8021B	
MB 880-119630/8	Method Blank	Total/NA	Water	8021B	
LCS 880-119630/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-119630/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-62992-C-1 MS	Matrix Spike	Total/NA	Water	8021B	
880-62992-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 119790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-21074-1	MW-4	Total/NA	Water	Total BTEX	
820-21074-2	MW-5	Total/NA	Water	Total BTEX	

HPLC/IC

Analysis Batch: 119609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-21074-1	MW-4	Total/NA	Water	300.0	
820-21074-2	MW-5	Total/NA	Water	300.0	
MB 880-119609/3	Method Blank	Total/NA	Water	300.0	
LCS 880-119609/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-119609/5	Lab Control Sample Dup	Total/NA	Water	300.0	
820-21069-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
820-21069-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 263920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-21074-1	MW-4	Total/NA	Water	SM 2540C	
820-21074-2	MW-5	Total/NA	Water	SM 2540C	
MB 860-263920/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-263920/2	Lab Control Sample	Total/NA	Water	SM 2540C	
820-21069-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: NT Global
 Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
 SDG: 259693

Client Sample ID: MW-4

Lab Sample ID: 820-21074-1

Date Collected: 09/16/25 10:00

Matrix: Water

Date Received: 09/19/25 16:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	119630	09/24/25 18:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119790	09/24/25 18:10	AJ	EET MID
Total/NA	Analysis	300.0		5	10 mL	10 mL	119609	09/23/25 22:23	CS	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	263920	09/23/25 16:26	AP	EET HOU

Client Sample ID: MW-5

Lab Sample ID: 820-21074-2

Date Collected: 09/16/25 11:00

Matrix: Water

Date Received: 09/19/25 16:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	119630	09/24/25 18:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119790	09/24/25 18:31	AJ	EET MID
Total/NA	Analysis	300.0		5	10 mL	10 mL	119609	09/23/25 22:39	CS	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	263920	09/23/25 16:26	AP	EET HOU

Laboratory References:

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

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
SDG: 259693

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

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

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	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
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Method Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
SDG: 259693

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
5030B	Purge and Trap	SW846	EET MID

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
- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: NT Global
Project/Site: Hilcorp NEDU #527

Job ID: 820-21074-1
SDG: 259693

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
820-21074-1	MW-4	Water	09/16/25 10:00	09/19/25 16:59	Texas
820-21074-2	MW-5	Water	09/16/25 11:00	09/19/25 16:59	Texas

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Login Sample Receipt Checklist

Client: NT Global

Job Number: 820-21074-1

SDG Number: 259693

Login Number: 21074

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").	N/A	

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Login Sample Receipt Checklist

Client: NT Global

Job Number: 820-21074-1

SDG Number: 259693

Login Number: 21074

List Number: 2

Creator: Torrez, Lisandra

List Source: Eurofins Houston

List Creation: 09/23/25 11:39 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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: 820-21074-1

SDG Number: 259693

Login Number: 21074

List Number: 3

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 09/23/25 02:07 PM

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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701 Tradewinds Blvd
Midland, Texas 79707
Tel. 432-766-1918
www.ntgenvironmental.com

January 19, 2026

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

**Re: 2025 Q4 Groundwater Monitoring Report
Northeast Drinkard Unit (NEDU) 527 Site
Unit Letter L, Sec 10, T21S, R37E
GPS Coordinates: 32.489811°N, -103.158592°W
Lea County, New Mexico
NMOCD Release Number: nPAC0631334833**

1. Introduction

New Tech Global Environmental, LLC (NTGE) on behalf of Hilcorp Energy Company (Hilcorp), has prepared this 2025 Q4 Groundwater Monitoring Report for submittal to the New Mexico Oil Conservation Division (NMOCD) District 1 in Hobbs, and Santa Fe, New Mexico. This report presents the 2025 fourth (4th) quarter laboratory analysis of groundwater samples collected from two (2) of five (5) monitor wells (MW-4 and MW-5), with the remaining wells (MW-1 through MW-3) being dry at the NEDU 527 (Site) located in Unit Letter L, Section 10, Township 21 South, Range 37 East, in Lea County, New Mexico. The geodetic position is latitude 32.489811° N, longitude -103.158592° W. See Figures 1 and 2 for Site Location and Topographic Maps.

2. Background

A produced water release occurred due to a compromised liner during the excavation of the drilling pit. An unknown volume of brine water migrated beneath the pit liner and into the underlying soil. On July 19, 2006, notice was given to Mr. Larry Johnson (NMOCD District 1) and Mr. Glen VonGonten (NMOCD Santa Fe) by Mr. Jerry Brian of Hungry Horse Environmental (Hungry Horse). The surface owner is the State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). On November 6, 2006, Hungry Horse, on behalf of Apache, submitted the initial C-141 to the NMOCD, which was approved on November 9, 2006, and assigned remediation permit number 1RP-1113 and incident tracking number nPAC063133483.

Hungry Horse commenced remediation of the drilling pit on July 23, 2006, and excavated soil to approximately ten (10) feet below ground surface (bgs). On July 31, 2006, Hungry Horse personnel collected soil samples from the base of the excavation (northeast, center, and southeast) at approximately ten (10) feet bgs and near the southwest corner at approximately twelve (12) feet bgs. Cardinal Laboratories of Hobbs, New Mexico analyzed the soil samples and reported chloride concentrations between 2,255 milligrams per kilogram (mg/Kg) near the center of the excavation at ten (10) feet bgs and 26,872 mg/Kg in the southwest sample at twelve (12) feet bgs.

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January 19, 2026
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Between July 31, 2006, and September 6, 2006, Hungry Horse deepened the excavation between 14 feet bgs and 19 feet bgs. On August 8, 2006, a base sample was collected near the center of the excavation (C. WRK.PIT) from fourteen (14) feet bgs, with a reported chloride concentration of 176 mg/Kg. On September 6, 2006, base samples with reported chloride concentrations of 224 mg/Kg (E – Working Pit – 19’ bgs), 288 mg/Kg (NE -19’ bgs), and 1,935 mg/Kg (SE – 19’ bgs) were collected. Hungry Horse hauled approximately 9,000 cubic yards of excavated soil to Sundance Services, Inc., located near Eunice, New Mexico for final disposition.

Between September 14 and 19, 2006, Hungry Horse personnel drilled four (4) boreholes (BH #1 through BH #4) in the base of the excavation using a truck-mounted hollow stem auger rig and split spoon sampler to vertically delineate the extent of chloride impacts. Boreholes #1, #2, #3, and #4 were drilled near the northeast (NE), southeast (SE), southwest (SW), and northwest (NW) quadrants, respectively. Soil samples were collected every five (5) feet to a depth of 35 ft bgs in BH #1 and BH #2 and a depth of 62 ft bgs in BH#3 whereby groundwater was encountered. Borehole BH#4 was advanced to a depth of 55 ft bgs.

Samples collected at the boring terminus in BH#1 and BH#2 exhibited chloride concentrations of 48 mg/Kg and 128 mg/Kg, respectively. A soil sample collected from 55 ft bgs in BH#3 exhibited a chloride concentration of 1,695 mg/Kg and a sample collected from 50 bgs in BH#4 exhibited a chloride concentration of 16 mg/Kg. A groundwater sample also collected from BH#3 which exhibited a chloride concentration of 2,007 milligrams per liter (mg/L). All samples were analyzed for chloride by Cardinal Laboratories (Cardinal) in Hobbs, New Mexico.

According to historical documentation (Trinity Oilfield Services and Rental, LLC, June 2019) the boreholes were plugged and abandoned (P&A), the base of the excavation was “double-capped” with two (2) plastic liners and backfilled to the surface to inhibit the vertical migration of contaminants below 21 feet bgs.

On September 19, 2006, NMOCD was informed of the groundwater impact, and issued abatement permit number AP-068, on November 29, 2006, that required Apache (original owner of the property) to submit an abatement plan in accordance with NMOCD Rule 19 (19.15.1.19 NMAC) for groundwater contamination from the drilling pit at NEDU #527. On February 15, 2007, Hungry Horse submitted the Stage 1 Groundwater Abatement Plan (*Apache Corporation State 1 Ground Water Abatement Plan (AP068) NEDU #527 Well Site API # 30-025-37242*, dated February 14, 2007). The groundwater abatement plan included among other things, installation of three (3) monitoring wells and the collection information to satisfy State 1 abatement plan requirements. No historical documentation could be identified to confirm the NMOCD’s approval or denial of the groundwater abatement plan.

Hungry Horse installed three (3) monitoring wells (MW-1, MW-2, and MW-3) at the approximate locations presented in Figure 3. No drilling or completion details are available for these monitoring wells.

On June 5, 2019, Trinity Oilfield Services & Rentals, LLC, (Trinity) assumed remediation activities from Hungry Horse. Trinity prepared a document titled *Addendum to Stage 1 Groundwater Abatement Plan NEDU #527, Lea County, New Mexico*, dated June 2019 that reported observing three (3) monitoring wells during a visit to the Site on June 10, 2019. Trinity also reported the monitoring wells as being constructed with 2-inch schedule 40 PVC. No steel locking cover or concrete pads were observed at the wells. Trinity reported the wells with depths between 57.63 and 59.27 feet bgs and reported sediment buildup in the wells that were completed above the water table.

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Trinity proposed removing the PVC casings from the three (3) wells (MW-1, MW-2, and MW-3); reentering and advancing the well bores to approximately 75 feet bgs, and recompleting with 2-inch schedule 40 PVC, concrete pads, J-plugs and locking steel monuments. Trinity also proposed the installation of monitor well MW-4 about 45 feet south and southeast of Borehole #3, to preserve the integrity and impermeability of the "double-cap" liner system, and monitoring well MW-5, about 180 feet downgradient (south and southeast) from well MW-4 near the south edge of the caliche well pad. The proposed depths for the monitoring wells were 75 feet bgs. Trinity proposed submitting a Stage 2 Groundwater Abatement Plan following four (4) consecutive quarters of groundwater monitoring. The *Addendum to Stage 1 Groundwater Abatement Plan NEDU #527, Lea County, New Mexico*, dated June 2019. Monitoring wells MW-4 and MW-5 were not drilled, and the addendum abatement plan was not identified in the NMOCD online imaging files for 1RP-113, incident tracking number nPAC0631334833 or abatement permit AP-068.

On May 25, 2021, Larson and Associates (LAI) of Midland, Texas was onsite to oversee the installation of the two additional monitor wells (MW-4 and MW-5) downgradient of the initial release source. The wells were installed to depths of 76.50 and 76.00 feet bgs, respectively and installed with 2-inch schedule 40 PVC. The wells have been continuously monitored quarterly since installation with no light non-aqueous phase hydrocarbons (LNAPL), TPH, or BTEX ever detected in the wells. However, during the initial year of monitoring, chloride concentrations above the above New Mexico Water Quality Control Commission standards (NMWQCC) were identified in both the wells for one or more quarters. Following the initial year of monitoring, no constituent of concern (COC) concentrations has been identified above the NMWQCC standards.

In January 2025, Hilcorp purchased the property along with the environmental liability from Apache Corporation.

3. Groundwater Gradient

On December 3, 2025, NTGE was onsite to complete the groundwater gauging and sampling event for the fourth quarter of 2025. All five (5) monitor wells (MW-1 through MW-5) were gauged to determine the static groundwater depths and measure LNAPL, if any. Utilizing a water level indicator each of the wells was gauged from a mark on the north side of the well casing to the depth of the first encountered groundwater and to the base of the monitoring well. Three (3) of the monitoring wells (MW-1 through MW-3) were found to be dry and monitoring wells MW-4 and MW-5 were gauged at depths to groundwater of 60.82 ft bgs and 59.89 ft bgs, respectively. Since only two (2) of the five (5) monitoring wells had measurable water, a groundwater gradient map was not generated. However, based on previous reporting, it is presumed the groundwater gradient is to the southeast. The monitoring well locations are shown on Figure 4 and the current and historical monitoring well gauging data is included in Table 1.

4. Groundwater Monitoring and Sampling Procedures

Following the groundwater gauging activities, the monitoring wells with measurable groundwater were sampled. Prior to sampling, the wells were purged using a new polyethylene bailer until a minimum of three (3) well volumes were purged (or the wells bailed dry) from each of the monitoring wells. The purge water was placed in an onsite fifty-five (55) gallon steel drum.

The wells were allowed to recharge within a minimum of 90% of the original gauging depth prior to sample collection. Once recharged, the wells were sampled with new disposal poly bailers and twine. The samples were placed into preserved laboratory provided sample containers, placed on ice, and transported to Cardinal Laboratories (Cardinal) of Hobbs, New Mexico for analysis of BTEX by EPA Method 8260B, chlorides by EPA Method 300.0, and Total Dissolved Solids (TDS) by EPA Method SM 2540C.

Mr. Billy Ginn
January 19, 2026
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5. Groundwater Sampling Results


Analytical results indicated all samples were below the NMWQCC standards for BTEX, chlorides, and TDS. Chlorides in monitoring wells MW-4 and MW-5 were 76.0 milligrams per Liter (mg/L) and 136 mg/L, respectively, while TDS in monitoring wells MW-4 and MW-5 were 337 mg/L and 538 mg/L, respectively. The two (2) monitor wells have remained below the NMWQCC standards since May 24, 2022. The analytical results are presented in Table 2. See Appendix A for laboratory analytical results.

6. Conclusions and Recommendations

Based on the analytical results of this current and prior monitoring events indicating that the analytical results are below the NMWQCC standards for the last 13 quarters, it is believed the Site is nearing closure. However, given that three (3) of the monitoring wells (MW-1 through MW-3) have remained dry since 2021, NTGE suggests reinstalling a minimum of one (1) of these wells as replacement for MW-1 to MW-3 to a depth of 75 feet bgs in order to establish a groundwater gradient for the Site. In addition, the three (3) dry wells should be plugged and abandoned per New Mexico regulations. After installation of the one (1) monitor well, NTGE recommends the site should remain on quarterly sampling and if the analysis remains below NMWQCC standards for eight (8) consecutive quarters, Hilcorp should request closure of the site. See Figure 6 for proposed location of replacement monitor well.

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

Sincerely,
NTG Environmental

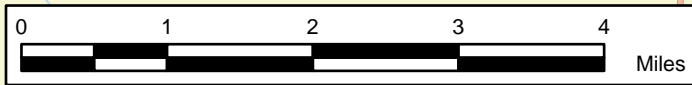
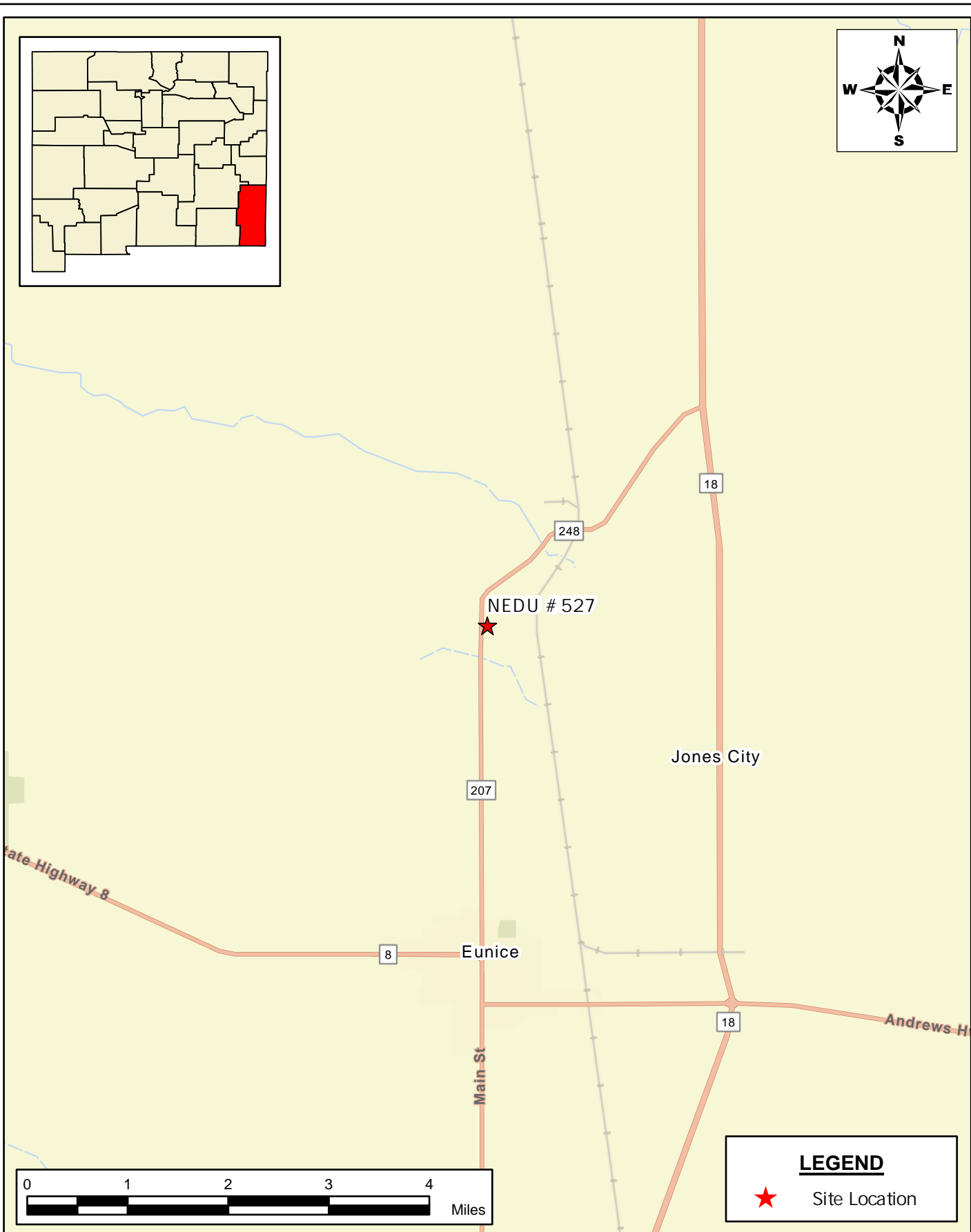
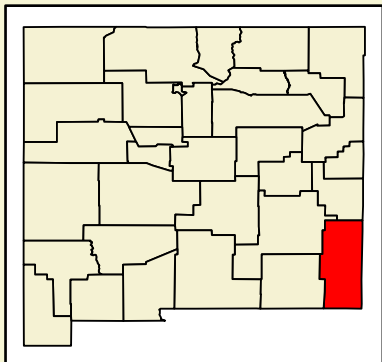
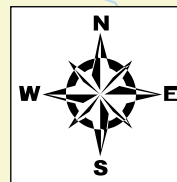


Jeff Kindley, P.G
Senior Project Manager/Geologist

Attachments:

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

FIGURES




LEGEND

★ Site Location

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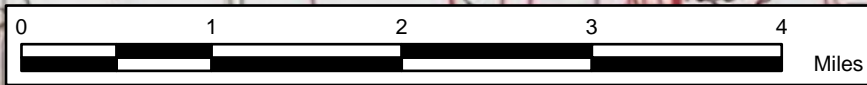
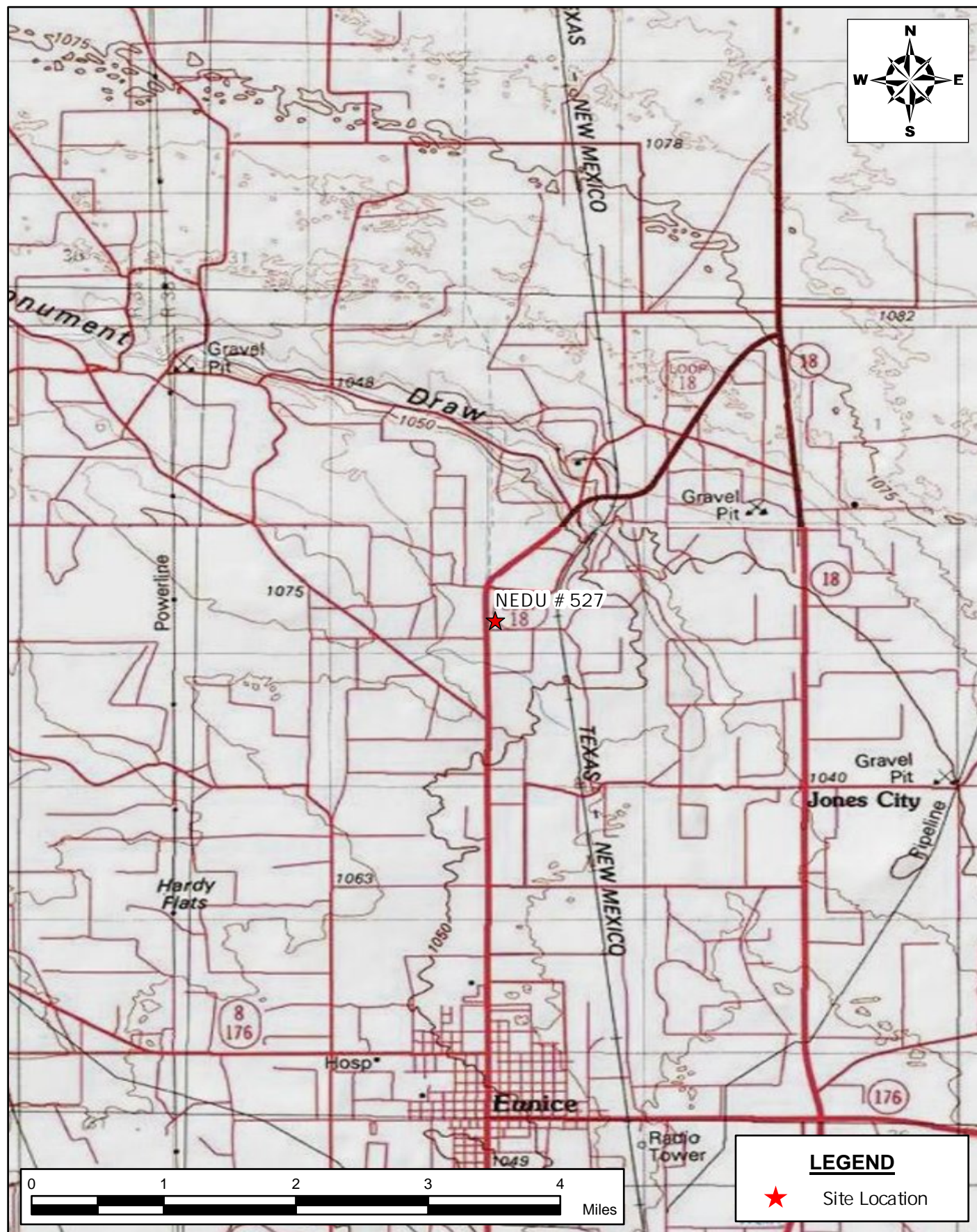
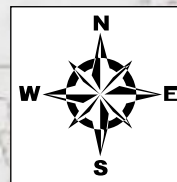
SITE LOCATION MAP
SITE PLAN
HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811, -103.158592

 **NTG ENVIRONMENTAL**
 New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com

NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1
 SHEET NUMBER:
1 of 1

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LEGEND

★ Site Location

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**TOPOGRAPHIC MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**

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NTG ENVIRONMENTAL

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

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FIGURE 2
SHEET NUMBER:
1 of 1



LEGEND

● Monitor Well

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**MONITOR WELL LOCATION MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

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FIGURE 3

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**GROUNDWATER GRADIENT MAP
SITE PLAN
HILCORP ENERGY
NEDU #527
LEA COUNTY, NEW MEXICO
32.489811, -103.158592**



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N
3. Gauged on 09/16/25

DRAWING NUMBER:

FIGURE 4

SHEET NUMBER:

1 of 1

SCALE: As Shown Date: 12/03/25 PROJECT #: 259693

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GROUNDWATER CONCENTRATION MAP
 SITE PLAN
 HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811° -103.158592°

SCALE: AS SHOWN DATE: 10/03/2025 PROJECT #: 259693



New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenvironmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983
3. Sampled on December 3, 2025
4. Results in mg/L

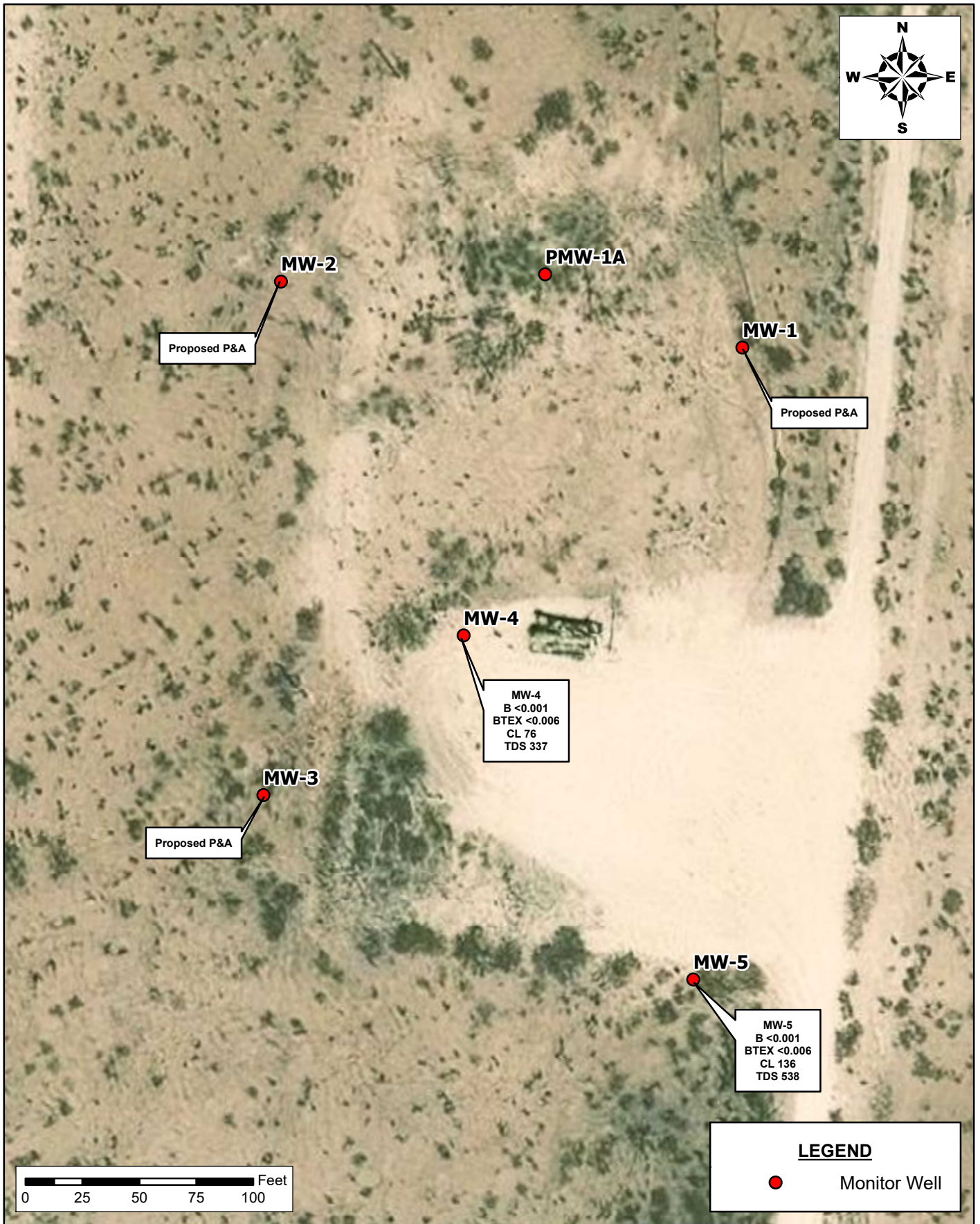
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FIGURE 5

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1 of 1

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PROPOSED MONITOR WELL LOCATION MAP
 SITE PLAN
 HILCORP ENERGY
 NEDU #527
 LEA COUNTY, NEW MEXICO
 32.489811° -103.158592°



New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenvironmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983
3. Contour Interval = 5'
4. Gauged March 13, 2025
5. Elevation in feet

DRAWING NUMBER:

FIGURE 6

SHEET NUMBER:

1 of 1

SCALE: AS SHOWN DATE: 07/10/2025 PROJECT #: 259693

TABLES

Table 1
Groundwater Gauging Data and Corrected Groundwater Depth
Hilcorp Energy Company
NEDU 527
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			Dry			
MW-2			Dry			
MW-3			Dry			
MW-4 (Screen 55.82'-75.82')	06/01/21	3,466.99	61.81	0.00	0.00	3,405.18
	10/12/21	3,466.99	60.57	0.00	0.00	3,406.42
	12/21/21	3,466.99	60.60	0.00	0.00	3,406.39
	03/02/22	3,466.99	60.68	0.00	0.00	3,406.31
	05/24/22	3,466.99	60.71	0.00	0.00	3,406.28
	08/15/22	3,466.99	60.72	0.00	0.00	3,406.27
	12/12/22	3,466.99	60.40	0.00	0.00	3,406.59
	03/09/23	3,466.99	60.79	0.00	0.00	3,406.20
	06/06/23	3,466.99	60.85	0.00	0.00	3,406.14
	09/05/23	3,466.99	60.83	0.00	0.00	3,406.16
	12/19/23	3,466.99	60.82	0.00	0.00	3,406.17
	03/13/24	3,466.99	60.82	0.00	0.00	3,406.17
	07/25/24	3,466.99	60.91	0.00	0.00	3,406.08
	10/15/24	3,466.99	60.90	0.00	0.00	3,406.09
	03/13/25	3,466.99	60.88	0.00	0.00	3,406.11
	06/13/25	3,466.99	60.90	0.00	0.00	3,406.09
MW-5 (Screen 55.82'-75.82')	06/01/21	3,466.06	61.81	0.00	0.00	3,404.25
	10/12/21	3,466.06	60.57	0.00	0.00	3,405.49
	12/21/21	3,466.06	60.60	0.00	0.00	3,405.46
	03/02/22	3,466.06	60.68	0.00	0.00	3,405.38
	05/24/22	3,466.06	60.71	0.00	0.00	3,405.35
	08/15/22	3,466.06	60.72	0.00	0.00	3,405.34
	12/12/22	3,466.06	60.40	0.00	0.00	3,405.66
	03/09/23	3,466.06	60.79	0.00	0.00	3,405.27
	06/06/23	3,466.06	60.85	0.00	0.00	3,405.21
	09/05/23	3,466.06	60.83	0.00	0.00	3,405.23
	12/19/23	3,466.06	60.82	0.00	0.00	3,405.24
	03/13/24	3,466.06	60.82	0.00	0.00	3,405.24
	07/25/24	3,466.06	60.91	0.00	0.00	3,405.15
	10/15/24	3,466.06	60.90	0.00	0.00	3,405.16
06/13/25	3,466.06	59.96	0.00	0.00	3,406.10	

Table 1
Groundwater Gauging Data and Corrected Groundwater Depth
Hilcorp Energy Company
NEDU 527
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-5 (Screen 55.82'-75.82')	09/16/25	3,466.06	59.86	0.00	0.00	3,406.20
	03/13/25	3,466.06	59.89	0.00	0.00	3,406.17
	06/13/25	3,466.06	59.96	0.00	0.00	3,406.10
	09/16/25	3,466.06	59.86	0.00	0.00	3,406.20
	12/03/25	3,466.06	59.89	0.00	0.00	3,406.17

**Table 2
Groundwater Analytical Results
Hilcorp Energy Company
NEDU 527
Lea County, New Mexico**

Sample ID	Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	Chlorides (mg/L)	TDS (mg/L)
MW-1	Dry							
MW-2	Dry							
MW-3	Dry							
MW-4	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	176	597
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	218	676
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	299	537
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	173	481
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	157	523
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	119	549
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	122	347
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	121	420
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	129	553
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	155	527
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	83.2	394
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	117	367
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	95.3	372
	10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	84.1	486
	03/13/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	86.2	407
	06/13/25	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	205	627
09/16/25	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	78.5	574	
12/03/25	<0.00100	<0.00100	<0.00100	<0.00600	<0.00600	76	337	
MW-5	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	306	761
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	303	757
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	293	709
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	276	764
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	240	667
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	176	665
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	192	508
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	193	531
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	243	734
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	235	654

Table 2
Groundwater Analytical Results
Hilcorp Energy Company
NEDU 527
Lea County, New Mexico

Sample ID	Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	Chlorides (mg/L)	TDS (mg/L)
MW-5 (Cont.)	12/19/23	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	151	491
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	242	540
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	212	543
	10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	169	588
	03/13/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	195	643
	06/13/25	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	115	487
	09/16/25	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	170	809
	12/03/25	<0.00100	<0.00100	<0.00100	<0.00600	<0.00600	136	538
DUP-1 (MW-5)	06/01/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	305	774
	10/12/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	300	779
	12/21/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	302	695
	03/02/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	270	774
	05/24/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	243	680
	08/15/22	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	158	691
	12/12/22	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	176	421
	03/09/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	190	558
	06/06/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	242	942
	09/05/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	258	630
	12/19/23	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	195	512
	03/13/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	215	554
	07/25/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	213	537
	10/15/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	160	576
Regulatory Limits (mg/kg)		0.005*	1*	0.7*	0.62*	NA	250**	1,000***

- 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

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



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

December 09, 2025

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

RE: NEDU 527

Enclosed are the results of analyses for samples received by the laboratory on 12/03/25 14:39.

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.

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: NEDU 527 Project Number: 259693 Project Manager: JEFF KINDLEY Fax To:	Reported: 09-Dec-25 16:46
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW - 4	H257529-01	Water	03-Dec-25 11:00	03-Dec-25 14:39
MW - 5	H257529-02	Water	03-Dec-25 10:15	03-Dec-25 14:39

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: NEDU 527 Project Number: 259693 Project Manager: JEFF KINDLEY Fax To:	Reported: 09-Dec-25 16:46
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MW - 4

H257529-01 (Water)

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

Inorganic Compounds

Chloride*	76.0		4.00	mg/L	1	5120402	KH	04-Dec-25	4500-Cl-B	
TDS*	337		5.00	mg/L	1	5120407	KH	04-Dec-25	160.1	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.001		0.001	mg/L	1	5120233	JH	04-Dec-25	8021B	
Toluene*	<0.001		0.001	mg/L	1	5120233	JH	04-Dec-25	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	5120233	JH	04-Dec-25	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	5120233	JH	04-Dec-25	8021B	
Total BTEX	<0.006		0.006	mg/L	1	5120233	JH	04-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			110 %	80.3-128		5120233	JH	04-Dec-25	8021B	

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: NEDU 527 Project Number: 259693 Project Manager: JEFF KINDLEY Fax To:	Reported: 09-Dec-25 16:46
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MW - 5

H257529-02 (Water)

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

Inorganic Compounds

Chloride*	136		4.00	mg/L	1	5120402	KH	04-Dec-25	4500-Cl-B	
TDS*	538		5.00	mg/L	1	5120407	KH	04-Dec-25	160.1	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.001		0.001	mg/L	1	5120233	JH	04-Dec-25	8021B	
Toluene*	<0.001		0.001	mg/L	1	5120233	JH	04-Dec-25	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	5120233	JH	04-Dec-25	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	5120233	JH	04-Dec-25	8021B	
Total BTEX	<0.006		0.006	mg/L	1	5120233	JH	04-Dec-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 117 % 80.3-128 5120233 JH 04-Dec-25 8021B

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: NEDU 527 Project Number: 259693 Project Manager: JEFF KINDLEY Fax To:	Reported: 09-Dec-25 16:46
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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 5120402 - General Prep - Wet Chem

Blank (5120402-BLK1) Prepared & Analyzed: 04-Dec-25

Chloride	ND	4.00	mg/L							
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LCS (5120402-BS1) Prepared & Analyzed: 04-Dec-25

Chloride	104	4.00	mg/L	100		104	80-120			
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LCS Dup (5120402-BSD1) Prepared & Analyzed: 04-Dec-25

Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	
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Batch 5120407 - Filtration

Blank (5120407-BLK1) Prepared & Analyzed: 04-Dec-25

TDS	ND	5.00	mg/L							
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LCS (5120407-BS1) Prepared & Analyzed: 04-Dec-25

TDS	478		mg/L	495		96.6	80-120			
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Duplicate (5120407-DUP1) Source: H257488-01 Prepared & Analyzed: 04-Dec-25

TDS	361	5.00	mg/L		351			2.81	20	
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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: NEDU 527 Project Number: 259693 Project Manager: JEFF KINDLEY Fax To:	Reported: 09-Dec-25 16:46
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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 5120233 - Volatiles

Blank (5120233-BLK1)

Prepared: 02-Dec-25 Analyzed: 04-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)	0.0559		mg/L	0.0500		112	80.3-128			

LCS (5120233-BS1)

Prepared: 02-Dec-25 Analyzed: 04-Dec-25

Benzene	0.019	0.001	mg/L	0.0200		96.6	79.8-121			
Toluene	0.020	0.001	mg/L	0.0200		98.6	81.2-123			
Ethylbenzene	0.020	0.001	mg/L	0.0200		100	79.7-124			
m,p-Xylene	0.040	0.002	mg/L	0.0400		99.6	82.9-124			
o-Xylene	0.020	0.001	mg/L	0.0200		101	83-122			
Total Xylenes	0.060	0.003	mg/L	0.0600		100	83.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/L	0.0500		106	80.3-128			

LCS Dup (5120233-BSD1)

Prepared: 02-Dec-25 Analyzed: 04-Dec-25

Benzene	0.019	0.001	mg/L	0.0200		95.4	79.8-121	1.22	7.58	
Toluene	0.019	0.001	mg/L	0.0200		96.2	81.2-123	2.52	8.87	
Ethylbenzene	0.020	0.001	mg/L	0.0200		98.6	79.7-124	1.92	9.72	
m,p-Xylene	0.039	0.002	mg/L	0.0400		96.8	82.9-124	2.93	9.68	
o-Xylene	0.020	0.001	mg/L	0.0200		97.9	83-122	3.00	9.43	
Total Xylenes	0.058	0.003	mg/L	0.0600		97.1	83.7-123	2.95	9.45	
Surrogate: 4-Bromofluorobenzene (PID)	0.0523		mg/L	0.0500		105	80.3-128			

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Notes and Definitions

- 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

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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: NTGE Project Manager: Jeff Kindly Address: 701 Tradewind Blvd #C City: Midland State: Tx Zip: 79706 Phone #: 432-238-0920 Fax #: _____ Project #: 259693 Project Owner: Hilcorp Project Name: NEPU 527 Project Location: Lowry NM Sampler Name: Jeff Kindly FOR LAB USE ONLY		P.O. #: _____ Company: SAME Attn: Jeff Kindly Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. H857589 Sample I.D. MW-4 1 2 MW-5		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING DATE TIME
Relinquished By: Jeff Kindly Date: 12/3/25 Time: 1439		Received By: Speckington Date: _____ Time: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 12.0 Corrected Temp. °C 10.9 Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
Turnaround Time: _____ Thermometer ID #140 Correction Factor +0.3°C		CHECKED BY: SK (Initials) Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
REMARKS: Normal Turn around		Verbal Results: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ 8-1500-0905701K 8-104-B-5-1029-01VB	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/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 548199

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 548199
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
bhall	Quarterly reports for 2025 accepted	3/23/2026
bhall	OCD approves reinstalling one (1) well as replacement for MW-1 to MW-3 to a depth of 75 feet bgs in order to establish a groundwater gradient for the Site. In addition, the three (3) drywells must be plugged and abandoned per New Mexico regulations. Installation of the replacement well must be installed per New Mexico regulations	3/23/2026
bhall	A report, including well installation, well plugging, and monitoring/sampling, must be submitted through the OCD Permitting website by June 26, 2026.	3/23/2026