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October 7, 2024

Mike Bratcher  
District Supervisor  
Oil Conservation Division, District 2  
811 S. First Street  
Artesia, New Mexico 88210

Re: Remediation Deferral Request  
Devon Energy Production Company  
North Thistle 2-35 Federal #001H  
Unit B, Section 02, Township 23S, Range 33E  
Site Coordinates: 32.3395618, -103.5413391  
Lea County, New Mexico  
Incident ID: nAPP2409932604

## **Introduction**

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Remediation Deferral Request for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment, remedial action activities, and sample analysis results for the release nAPP2409932604 – North Thistle 2-35 Federal #001H (Site). The Site is in Unit Letter B, Section 02, of Township 23 South and Range 33 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.3395618° N latitude and 103.5413391° W longitude. The site location with respect to the nearest town is shown in Figure 1 and the topography of the area is shown in Figure 2.

## **Background**

Based on the Release Notification C-141 Form, the release was discovered on April 7, 2024. The cause of the release was an equipment failure on the main flowline. Upon discovery, the Site was shut-in, and repairs were ensued. Approximately thirty (30) barrels (bbls) of crude oil were released of which twenty (20) bbls of crude oil were recovered for an approximate net loss of ten (10) bbls of crude oil. The release area is shown in Figure 3.

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Mr. Mike Bratcher  
October 7, 2024  
Page 2 of 4

## **Groundwater and Site Characterization**

Based on a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known water sources within a ½-mile radius of the location.

No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the site is located within a Low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are attached to this report.

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

### ***General Site Characterization and Groundwater:***

Site Characterization	Average Groundwater Depth (ft)
Low Karst	unknown

**Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)**

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	GRO+DRO	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

## **Initial Soil Delineation Assessment Summary and Findings**

On April 11, 2024, NTGE conducted site assessment activities to assess the extent of impacts at the Site. Two (2) vertical sample points (V-1 and V-2) were installed within the area of concern. Sample collection was performed at one (1) ft. intervals from depths ranging from zero (0) to four and a half (4.5) feet below ground surface (ft bgs) with a geotechnical hand auger to characterize the extent of contaminants. Five (5) horizontal sample points (H-1 through H-5) were installed adjacent to the release area to characterize the lateral impacts. Soil samples were collected at zero (0) to half-foot (0.5) ft bgs with a geotechnical hand auger. The hand auger was decontaminated with Alconox<sup>®</sup> and deionized water between soil samples to prevent cross-contamination. Sample locations are shown in Figure 3.

Soil samples were placed directly into laboratory provided samples containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, NM for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA method 8021B), total petroleum hydrocarbon (TPH) (EPA method 8015M), and chloride (EPA method SM4500Cl-B). The analytical results indicated that chloride concentrations exceeded the NMOCD regulatory limits in the areas of V-1 and V-2 from surface (0) to four and a half (4.5) ft bgs. In addition the

NTGE Project No.: 248613



Mr. Mike Bratcher  
October 7, 2024  
Page 3 of 4

analytical results indicate that TPH exceeded the NMOCD regulatory limits in the area of V-1 from surface (0) to a half (0.5) ft bgs.

On May 21, 2024, NTGE returned to the Site to continue vertical delineation assessment of the release. Two (2) test pits (TP-1 and TP-2) were installed within the release area to further characterize the spill. Soil samples were collected with machinery equipment, at 1 ft intervals from depths ranging from five (5) to six (6) ft bgs. All soil samples were analyzed for BTEX (EPA method 8021B), TPH (EPA method 8015M), and chloride (EPA method SM4500Cl-B). Analytical results indicated that BTEX, TPH and Chloride concentrations were below the NMOCD regulatory limits for TP-1 and TP-2 at all intervals.

Analytical results are included in Table 1, while soil boring locations are shown in Figure 3. Laboratory reports containing analytical methods and chain-of-custody documents are attached to the report.

### **Remedial Actions Activities and Confirmation Sampling**

After receiving and evaluating the soil boring data Devon excavated the areas of TP-1 and TP-2 to a depth of five (5) to eight (8) ft bgs to ensure that the impacted soil has been removed from the Site.

On August 30, 2024, NTGE was on Site to conduct a confirmation sampling event, whereby twelve (12) base confirmation samples (CS-1 through CS-12) and nine (9) sidewall confirmation samples (SW-1 through SW-9) were collected. Analytical results indicated that multiple confirmation samples (i.e., CS-1, CS-2, CS-4, CS-5, CS-6, CS-7, CS-8, CS-11, CS-12, SW-1, SW-4, and SW-9) were above NMOCD regulatory limits for TPH and/or chloride.

After further remedial efforts on September 10, NTGE returned to the Site to collect eight (8) base confirmation samples (CS-4 through CS-8 and CS-11 through CS-13) and seven (7) sidewall confirmation samples (SW-8A, SW-9A, and SW-10 through SW-14). Analytical results indicated that three base samples (CS-4, CS-7, and CS-12) were above NMOCD regulatory limits for TPH and/or chloride. All other samples were below NMOCD regulatory limits for the site.

After further remedial efforts on September 18, NTGE returned to Site to collect two (2) base confirmation samples (CS-4 and CS-12) and eight (8) sidewall confirmation samples (SW-15 through SW-22). Analytical results indicated that all samples were below NMOCD regulatory limits for the site, excluding CS-1, CS-2, CS-7, SW-1 and SW-4 which was unable to be excavated further due to facility infrastructure (i.e., production flow lines and wellhead). The confirmation samples over limit (CS-1, CS-2, CS-7, SW-1 and SW-4) were delineated with DV-1 at depths of eleven (11) ft bgs and H-5 at surface depth.

Confirmation samples were taken as a five (5) point composite sample and represent an area no greater than 200 square feet to comply with NMAC 19.15.23.12 and 19.15.29.13. Samples were placed directly into laboratory provided sample containers, placed on ice, and transported under chain-of-custody protocol to the lab. Soil samples were collected and delivered to Cardinal Laboratories in Hobbs, New Mexico for the analysis of TPH (EPA method 8015 modified), BTEX (EPA method 8021 B), and chloride (method SM4500-Cl-B).

Mr. Mike Bratcher  
October 7, 2024  
Page 4 of 4

Analytical results are included in Table 2, while confirmation sampling locations are shown in Figure 4 while deferral area and delineation samples are shown in Figure 5. Laboratory reports containing analytical methods and chain-of-custody documents are attached to the report.

### **Deferral Request**

Devon personnel have expressed that the excavation areas of CS-1, CS-2, CS-7, SW-1 and SW-4 cannot be expanded vertically or horizontally due to the presence of facility infrastructure around the excavation and the associated safety concerns in further encroaching on the infrastructure. The infrastructure in and around the excavation is shown on Figure 5. On behalf of Devon, NTGE formally request a deferral to address the remaining soil impacts until the time of facility decommissioning or in the event infrastructure modifications are made in the area that would alleviate the safety concerns, whichever is sooner. Should the deferral request be granted, a remedial action report documenting excavation expansion and confirmation sampling activities will be prepared and filed following completion of the remediation to be completed at a future date.

If you have any questions regarding this letter, please contact us at (432)-701-2159.

Sincerely,  
**NTG Environmental**



Ethan Sessums  
Project Manager

Attachments:

- Site Characterization
- Tables
- Figures
- Photographic Log
- Laboratory Reports and Chain-of-Custody Documents

## **TABLES**

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**Table 1**  
**Summary of Soil Analytical Data - Initial Assessment Samples**  
**North Thistle 2-35 Federal #001H**  
**Devon Energy Production Company**  
**Lea Co, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C36)	Total GRO/DRO/MRO (C6-C36)		
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg		600 mg/kg
Vertical Delineation Samples														
V-1	4/11/2024	0-0.5	0.208	1.07	0.532	2.02	3.83	53.4	251	304	37.7	342	22,400	
	4/11/2024	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,840	
	4/11/2024	2-2.5	0.18	0.085	<0.050	<0.150	0.265	<10.0	<10.0	<10.0	<10.0	<10.0	6,880	
	4/11/2024	3-3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,000	
	4/11/2024	4-4.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,400	
V-2	4/11/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	57.3	57.3	<10.0	57.3	20,000	
	4/11/2024	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,530	
	4/11/2024	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,800	
	4/11/2024	3-3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,860	
	4/11/2024	4-4.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,860	
TP-1	5/21/2024	5-5.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	
	5/21/2024	6-6.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
TP-2	5/21/2024	5-5.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352	
	5/21/2024	6-6.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256	
Horizontal Delineation Samples														
H-1	4/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128	
H-2	4/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416	
H-3	4/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.3	21.3	<10.0	21.3	160	
H-4	4/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20	20	<10.0	20	336	
H-5	4/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128	

- Notes:
- Values reported in mg/kg
  - < = Value Less Than Reporting Limit (RL)
  - Bold indicates Analyte Detected
  - BTEX analyses by EPA Method SW 8021B
  - TPH analyses by EPA Method SW 8015 Mod.
  - GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
  - Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
  - Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
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SP-1 Sample Point Excavated

Table 2  
Summary of Soil Analytical Data - Delineation Samples  
North Thistle 2-35 Federal #001H  
Devon Energy Production, LP  
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)		
			Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg		600 mg/kg
Confirmation Samples														
CS-1	8/30/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	720	<10.0	112	832	368	
CS-2	8/30/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,680	<10.0	361	2,041	240	
CS-3	8/30/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464	
CS-4	8/30/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,260	
	9/10/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800	
	9/18/2024	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0	
CS-5	8/30/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	976	
	9/10/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192	
CS-6	8/30/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	52.9	<10.0	<10.0	<10.0	2,800	
	9/10/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	52.9	<10.0	<10.0	<10.0	544	
CS-7	8/30/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	336	<10.0	61.7	397.7	3,840	
	9/10/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	501	501	113	614	2,880	
CS-8	8/30/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,040	
	9/10/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368	
CS-9	8/30/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288	
CS-10	8/30/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128	
CS-11	8/30/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23	23	<10.0	23	4,040	
	9/10/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128	
CS-12	8/30/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,920	
	9/10/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	896	
	9/18/2024	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
CS-13	9/10/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0	
Sidewall Samples														
SW-1	8/30/2024	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	103	<10.0	32.7	135.7	144	
SW-2	8/30/2024	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
SW-3	8/30/2024	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	56.7	<10.0	<10.0	<10.0	176	
SW-4	8/30/2024	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	617	<10.0	67.5	684.5	1,120	
SW-5	8/30/2024	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
SW-6	8/30/2024	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	
SW-7	8/30/2024	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112	
SW-8	8/30/2024	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240	
SW-8A	9/10/2024	0-7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
SW-9	8/30/2024	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	704	
SW-9A	9/10/2024	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	
SW-10	9/10/2024	5-7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	
SW-11	9/10/2024	5-7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16	
SW-12	9/10/2024	5-7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112	
SW-13	9/10/2024	0-7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	
SW-14	9/10/2024	0-7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192	
SW-15	9/18/2024	0-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
SW-16	9/18/2024	7-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	

**Table 2**  
**Summary of Soil Analytical Data - Delineation Samples**  
**North Thistle 2-35 Federal #001H**  
**Devon Energy Production, LP**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
SW-17	9/18/2024	7-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>32</b>
SW-18	9/18/2024	7-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>32</b>
SW-19	9/18/2024	5-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>32</b>
SW-20	9/18/2024	7-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>32</b>
SW-21	9/18/2024	0-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>32</b>
SW-22	9/18/2024	5-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>32</b>
DV-1	9/18/2024	8-8.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>2,840</b>
	9/18/2024	9-9.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>1,180</b>
	9/18/2024	10-10.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>464</b>
	9/18/2024	11-11.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>48</b>

## Notes:

1. Values reported in mg/kg  
2. < = Value Less Than Reporting Limit (RL)  
3. Bold indicates Analyte Detected  
4. BTEX analyses by EPA Method SW 8021B  

SP-1

 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

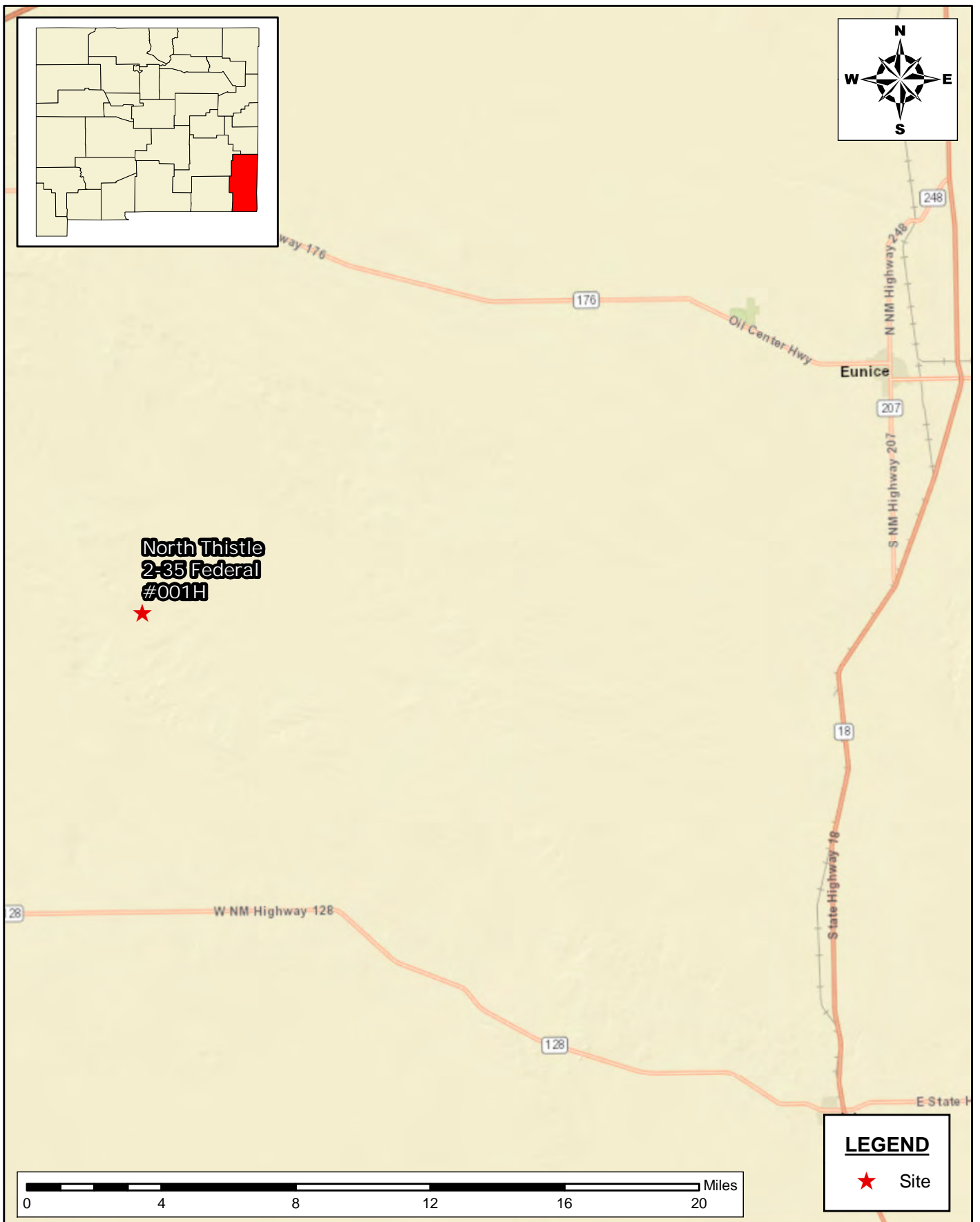
9. --- Not Analyzed



## **FIGURES**

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Document Path: C:\Users\ntgegis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\IRSC\248613 - North Thistle 2-35 Fed #001H\ - Figures\GIS\Figure\_1\_SL.mxd



**SITE LOCATION MAP**  
**SITE CHARACTERIZATION AND DEFERRAL REQUEST**  
 NORTH THISTLE 2-35 FED #001H  
 DEVON ENERGY PRODUCTION COMPANY  
 LEA COUNTY, NEW MEXICO

SCALE: As Shown    Date: 10/4/2024    PROJECT #:248613

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



**NOTES:**

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

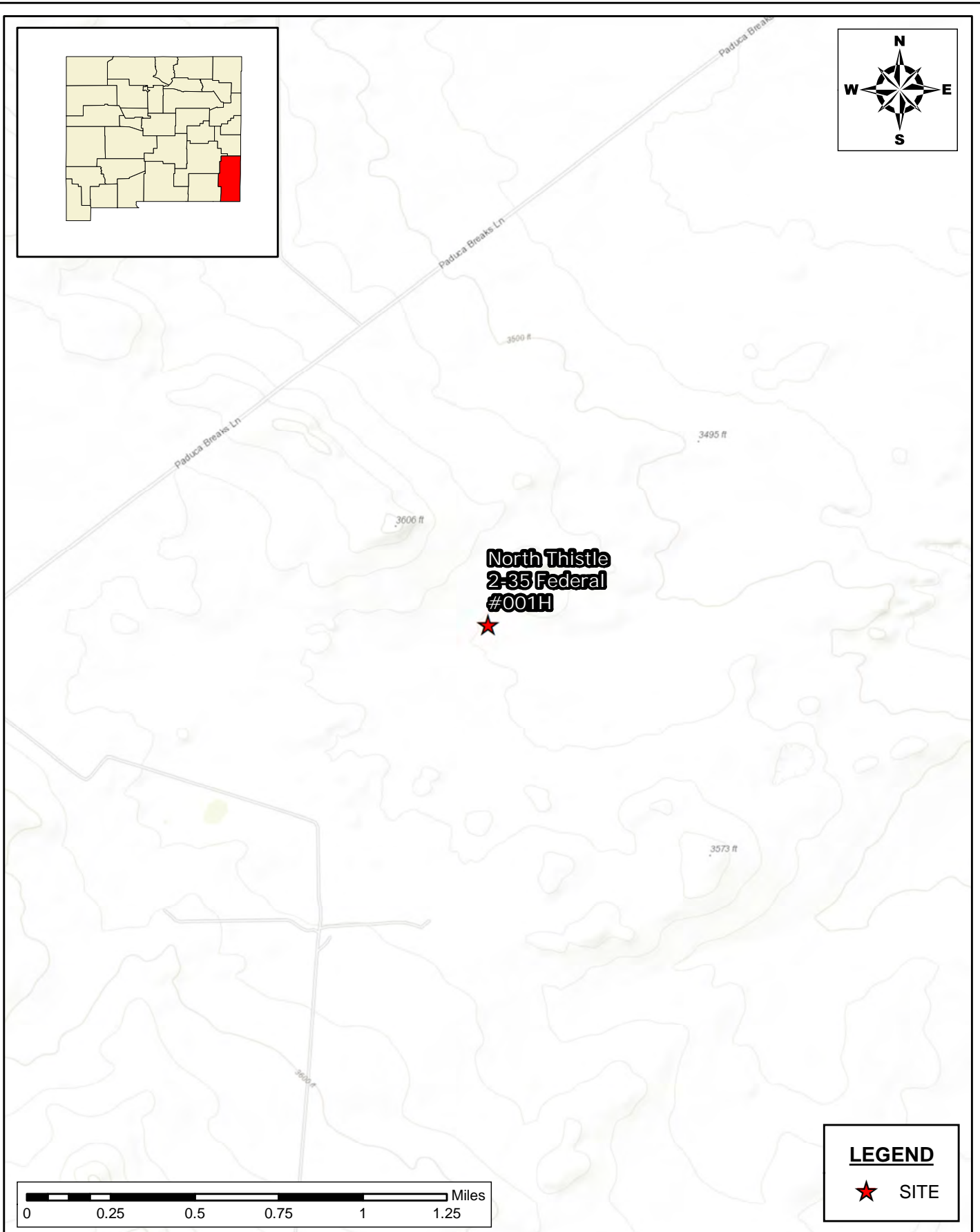
DRAWING NUMBER:

**FIGURE 1**

SHEET NUMBER:

**1 of 1**

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\2024 PROJECTS\DEVON\RSC\248613 - North Thistle 2-35 Fed #001H\7 - Figures\GIS\Figure\_2\_TM.mxd



**TOPOGRAPHIC MAP**  
**SITE CHARACTERIZATION AND DEFERRAL REQUEST**  
NORTH THISTLE 2-35 FED #001H  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO

SCALE: As Shown    Date: 4/11/2024    PROJECT #:248613



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

**NOTES:**

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

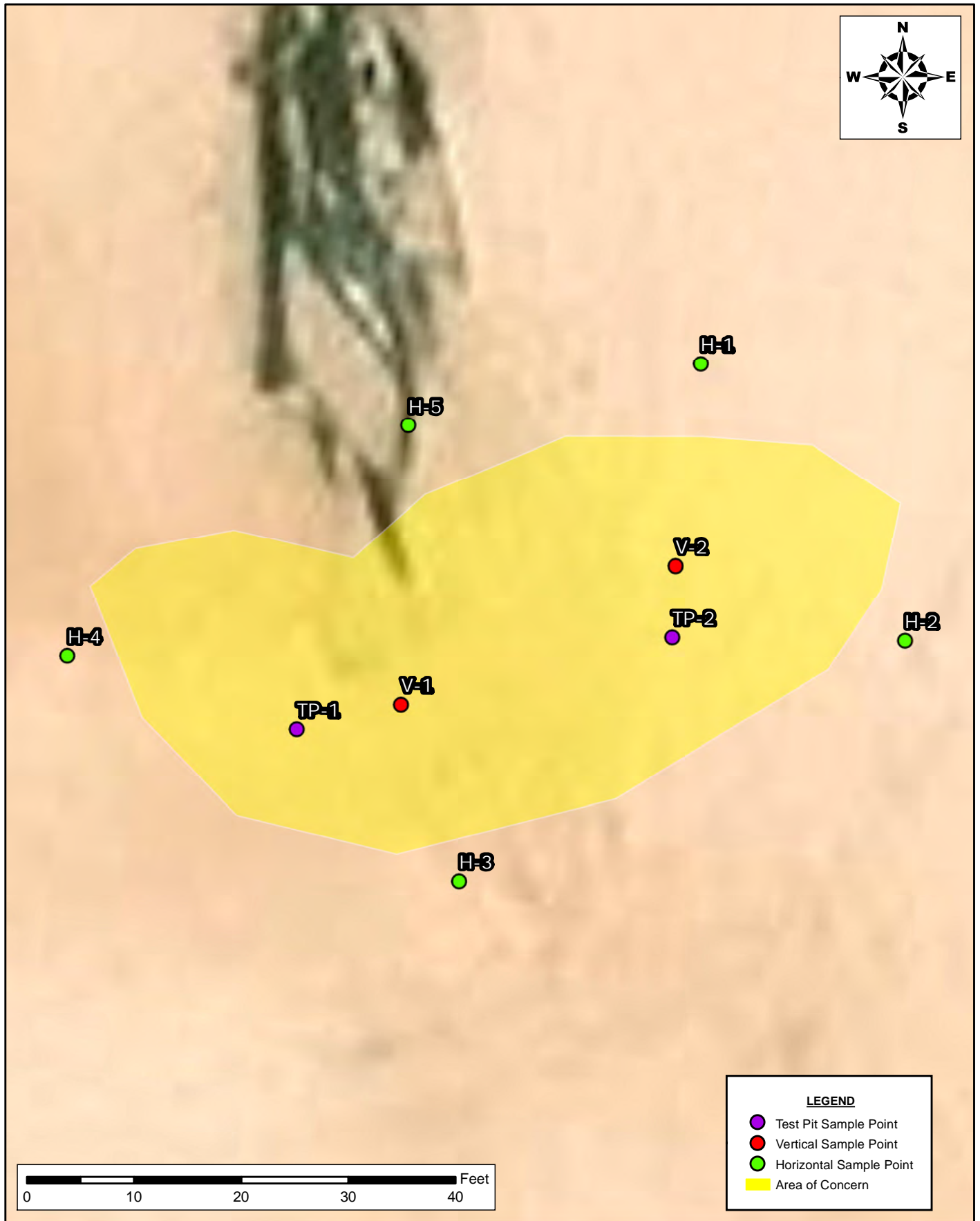
DRAWING NUMBER:

**FIGURE 2**

SHEET NUMBER:

**1 of 1**

Document Path: C:\Users\ntgegis\New Tech Global\NTGE - Documents\2024 PROJECTS\DEVONRSC\248613 - North Thistle 2-35 Fed #001H\7 - Figures\GIS\Figure\_3.mxd



**INITIAL ASSESSMENT MAP**  
**SITE CHARACTERIZATION AND REMEDIATION DEFERRAL REQUEST**  
NORTH THISTLE 2-35 FED #001H  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO

SCALE: AS SHOWN

DATE: 05/28/2024

PROJECT #: 248613



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

**NOTES:**

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

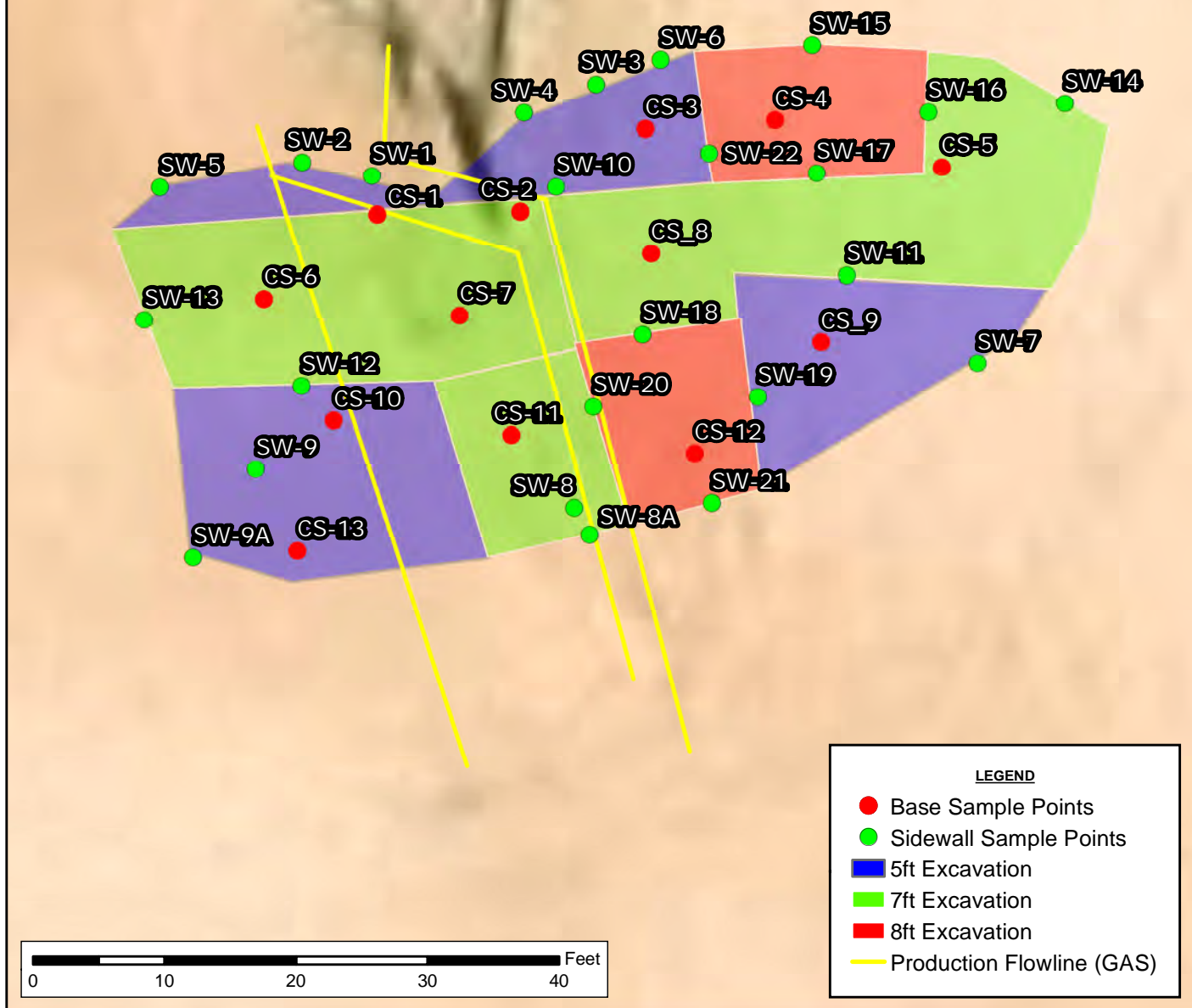
DRAWING NUMBER:

**FIGURE 3**

SHEET NUMBER:

**1 of 1**

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\NRSC\248613 - North Thistle 2-35 Fed #001H7 - Figures\GIS\Figure\_4.mxd



**CONFIRMATION SAMPLING MAP  
SITE CHARACTERIZATION AND REMEDIATION DEFERRAL  
REQUEST**  
NORTH THISTLE 2-35 FED #001H  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO

SCALE: AS SHOWN

DATE: 09/24/2024

PROJECT #: 248613



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

**NOTES:**

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

DRAWING NUMBER:

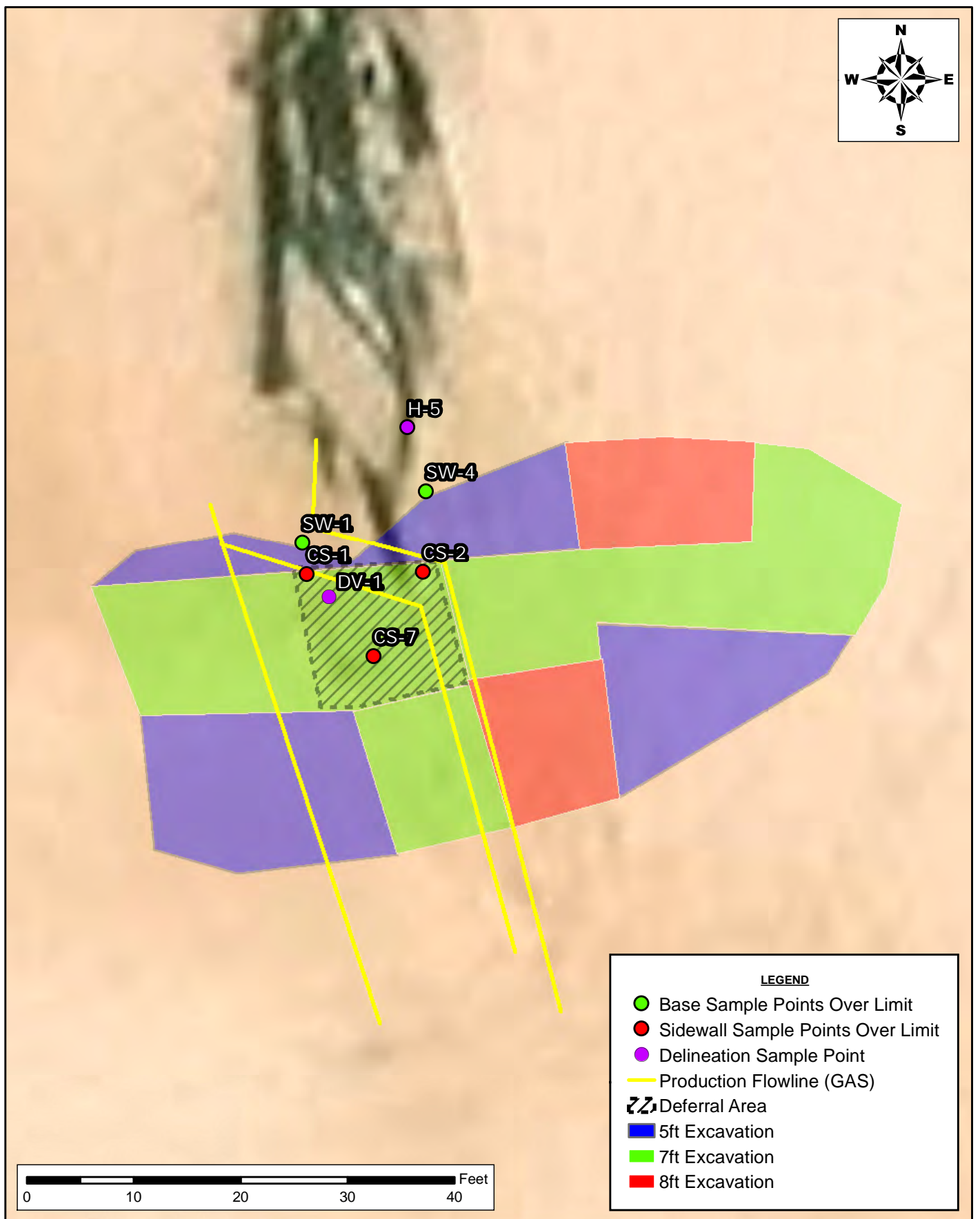
**FIGURE 4**

SHEET NUMBER:

**1 of 1**



Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTSIDE\DEVON\IRSC\248613 - North Thistle 2-35 Fed #001H\7 - Figures\GIS\Figure\_5.mxd



**DEFERRAL MAP**  
**SITE CHARACTERIZATION AND REMEDIATION DEFERRAL REQUEST**  
 NORTH THISTLE 2-35 FED #001H  
 DEVON ENERGY PRODUCTION COMPANY  
 LEA COUNTY, NEW MEXICO

SCALE: AS SHOWN

DATE: 09/26/2024

PROJECT #: 248613



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

**NOTES:**

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

DRAWING NUMBER:

**FIGURE 5**

SHEET NUMBER:

**1 of 1**

## **PHOTOGRAPHIC LOG**

---



# OCD Well Locations



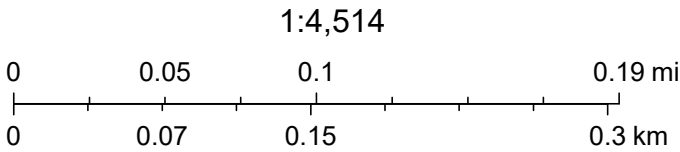
4/11/2024, 12:17:04 PM

Wells - Large Scale Incident Release

- Oil, Active
- Oil, New
- Produced Water Release
- Oil Release

Karst Occurrence Potential

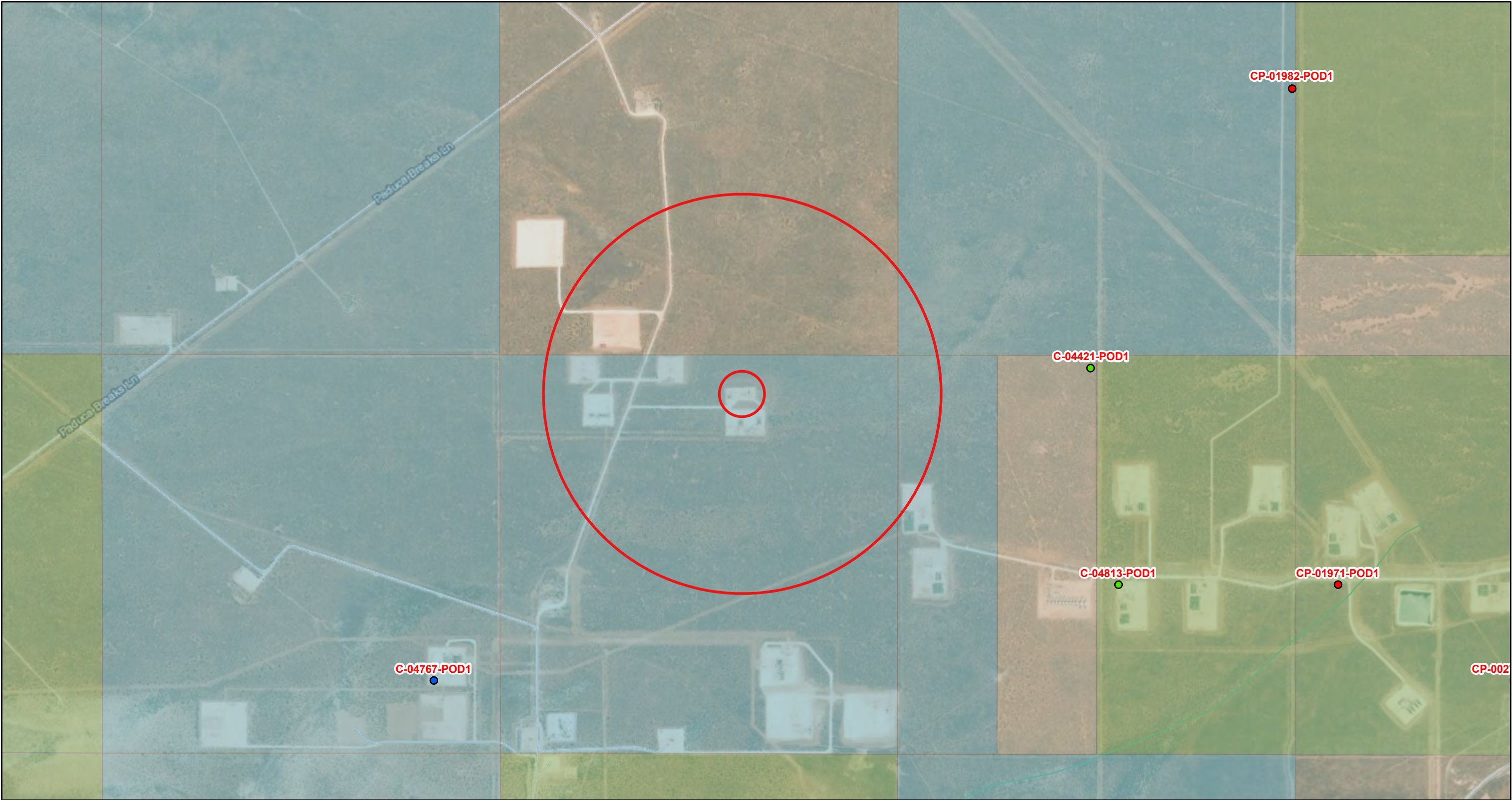
- Low
- PLSS Second Division
- PLSS First Division



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., USGS, OCD, Esri, HERE, Garmin, iPC, Maxar, BLM



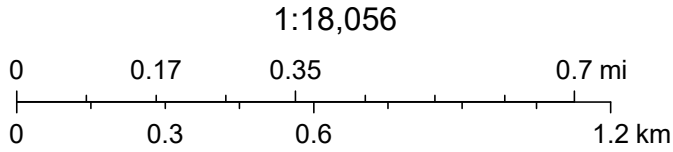
# OSE POD Location Map



4/11/2024, 12:16:28 PM

- Override 1
- GIS WATERS PODs
- Active
- Pending
- Plugged
- OSE District Boundary

- Water Right Regulations
- Closure Area
- Artesian Planning Area
- New Mexico State Trust Lands
- Subsurface Estate
- Surface Estate
- Both Estates
- NHD Flowlines
- Stream River






Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

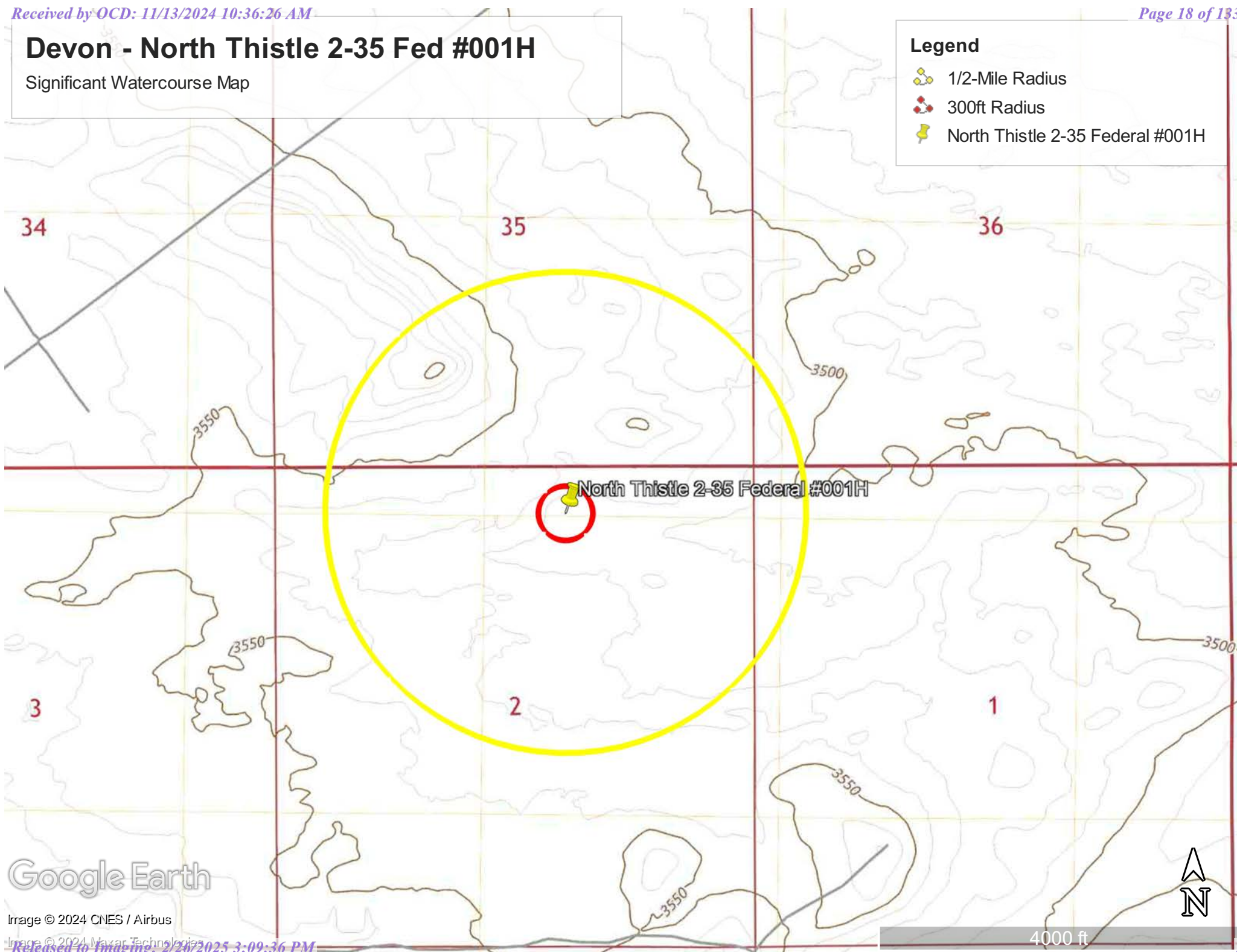


# Devon - North Thistle 2-35 Fed #001H

Significant Watercourse Map

## Legend

-  1/2-Mile Radius
-  300ft Radius
-  North Thistle 2-35 Federal #001H



Google Earth

Image © 2024 CNES / Airbus

Image © 2024 Maxar Technologies

Released to Imaging: 2/26/2025 3:09:36 PM

4000 ft










# Wetlands Inventory






April 11, 2024

## Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond

-  Lake
-  Other
-  Riverine

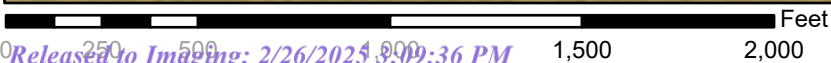
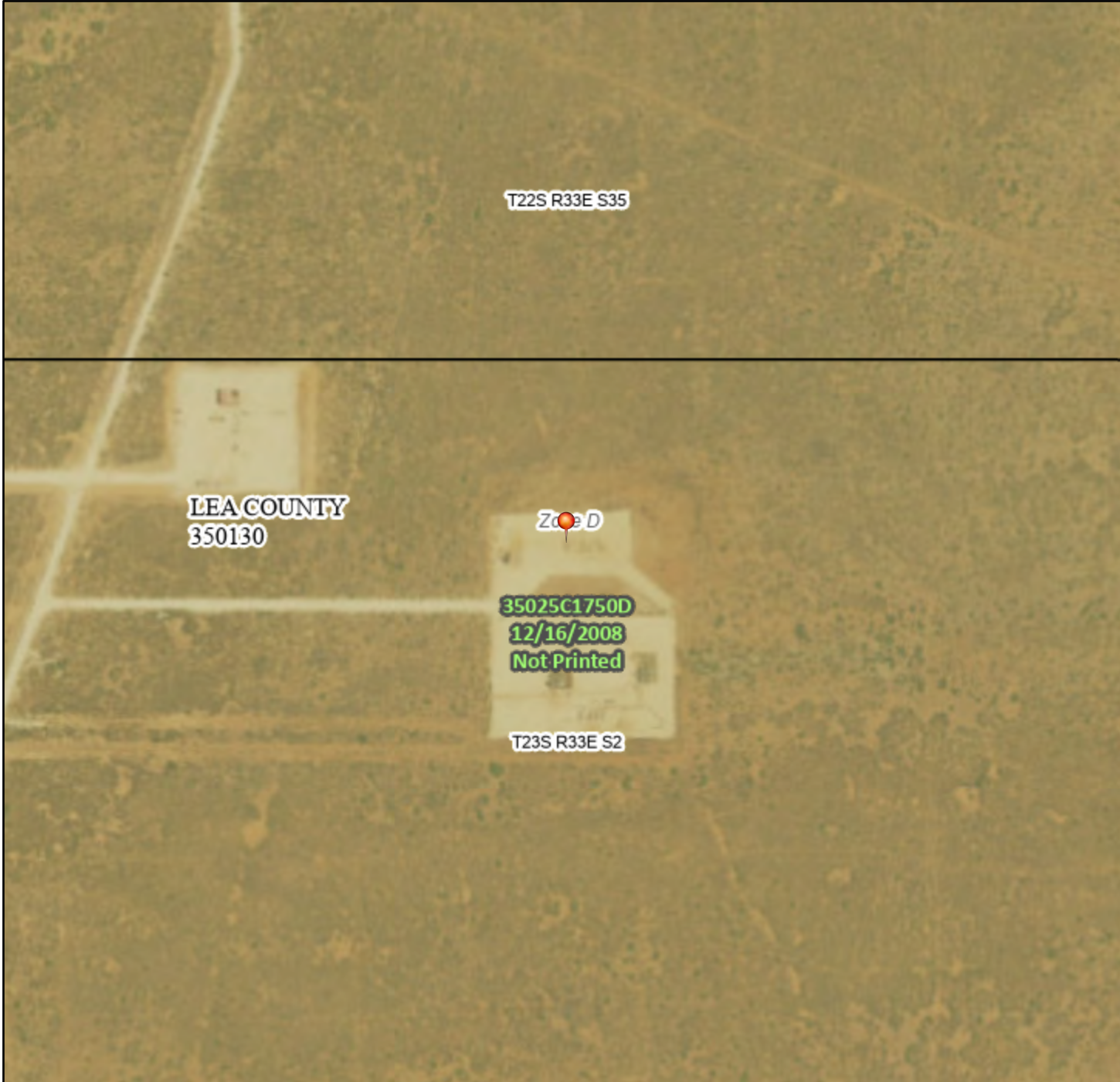
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMette



103°32'48"W 32°20'38"N



1:6,000

103°32'10"W 32°20'7"N

Released to Imaging: 2/26/2025 3:09:36 PM

Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/11/2024 at 2:14 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

## **SITE CHARACTERIZATION INFORMATION**

---

**PHOTOGRAPHIC LOG**  
**Devon Energy Production Company**  
**North Thistle 2-35 Fed #001H**

**Photograph No. 1**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

**Description:**  
Area of Concern

**Photograph No. 2**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

**Description:**  
Area of Concern

**Photograph No. 3**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

**Description:**  
Area of Concern





**PHOTOGRAPHIC LOG**  
**Devon Energy Production Company**  
**North Thistle 2-35 Fed #001H**

**Photograph No. 4**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

**Description:**  
Area of Concern

**Photograph No. 5**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

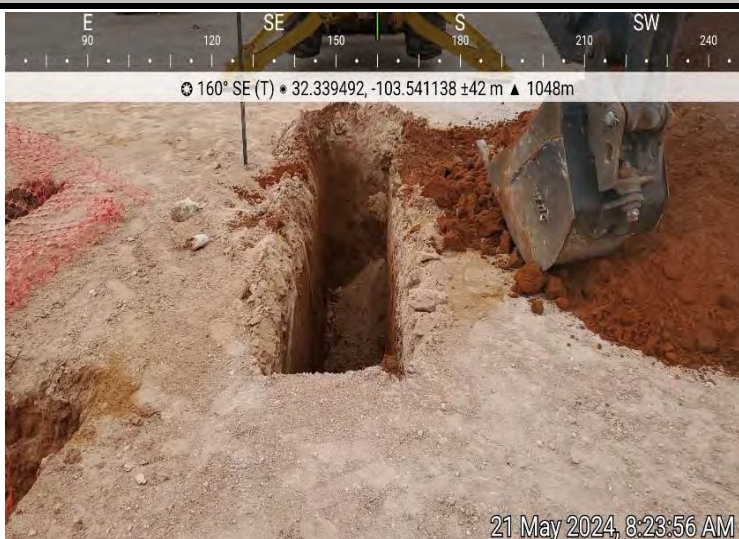
**Description:**  
Area of Concern

**Photograph No. 6**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

**Description:**  
Test Pits





**PHOTOGRAPHIC LOG**  
**Devon Energy Production Company**  
**North Thistle 2-35 Fed #001H**

**Photograph No. 7**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

**Description:**  
View of Excavation

**Photograph No. 8**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

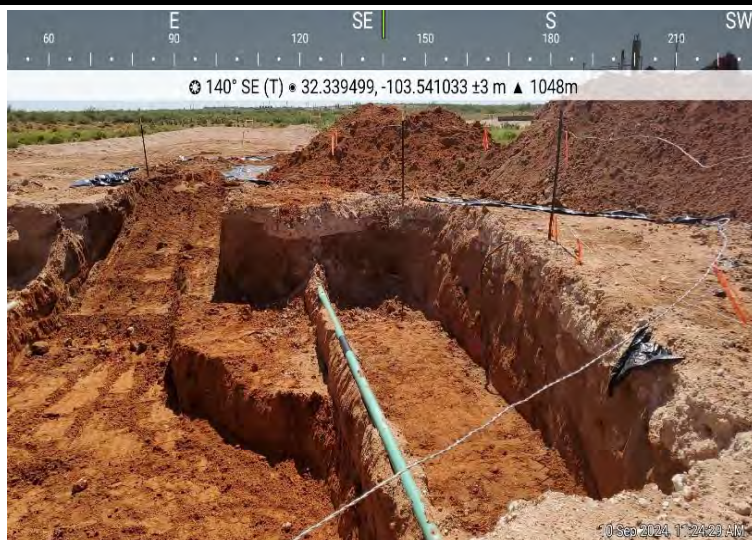
**Description:**  
View of Excavation

**Photograph No. 9**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

**Description:**  
View of Excavation





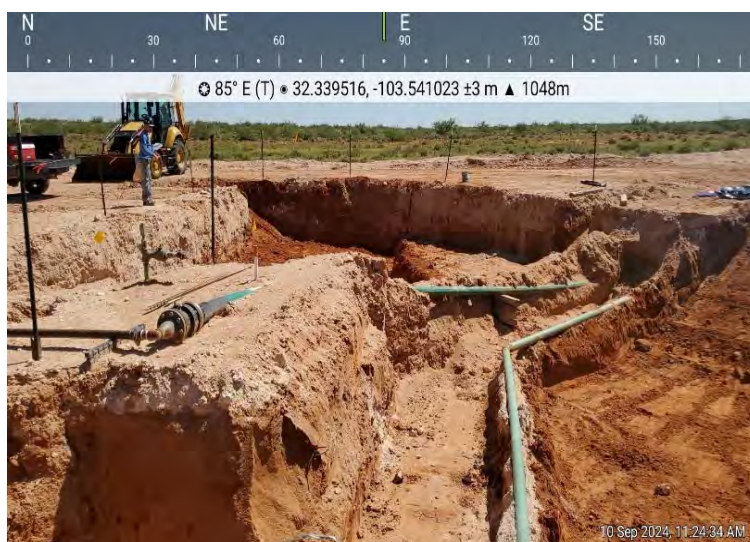
**PHOTOGRAPHIC LOG**  
**Devon Energy Production Company**  
**North Thistle 2-35 Fed #001H**

**Photograph No. 10**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

**Description:**  
View of Excavation and Deferral Area

**Photograph No. 11**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

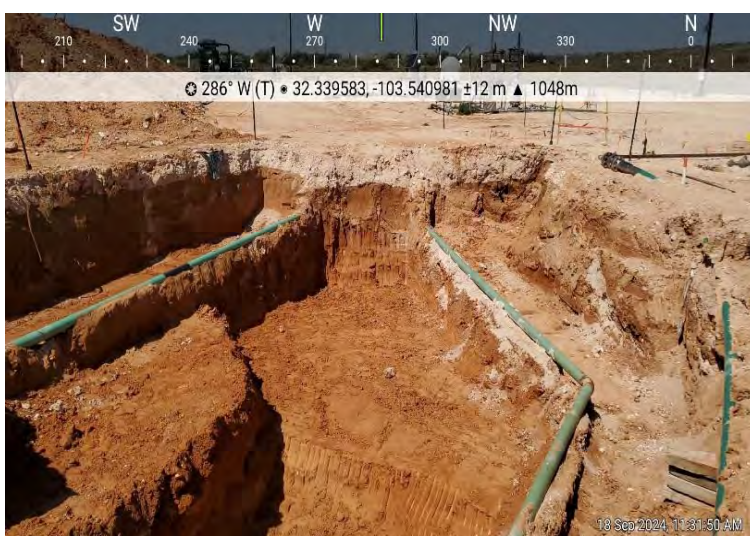
**Description:**  
View of Excavation

**Photograph No. 12**

**Facility:** North Thistle 2-35 Fed #001H

**County:** Lea County, New Mexico

**Description:**  
View of Excavation and Deferral Area



## **LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS**



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

---

April 16, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: N THISTLE 2-35

Enclosed are the results of analyses for samples received by the laboratory on 04/11/24 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V - 1 0-.5' (H241906-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.208</b>	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
<b>Toluene*</b>	<b>1.07</b>	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
<b>Ethylbenzene*</b>	<b>0.532</b>	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
<b>Total Xylenes*</b>	<b>2.02</b>	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
<b>Total BTX</b>	<b>3.83</b>	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>22400</b>	16.0	04/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>53.4</b>	10.0	04/12/2024	ND	191	95.4	200	0.0477	
<b>DRO &gt;C10-C28*</b>	<b>251</b>	10.0	04/12/2024	ND	188	94.1	200	2.27	
<b>EXT DRO &gt;C28-C36</b>	<b>37.7</b>	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V - 1 1-1.5' (H241906-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	04/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V - 1 2-2.5' (H241906-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.180	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	0.085	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEx	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	04/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V - 1 3-3.5' (H241906-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	04/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V - 1 4-4.5' (H241906-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11400	16.0	04/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V - 2 0-.5' (H241906-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	04/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	57.3	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V - 2 1-1.5' (H241906-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6530	16.0	04/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V - 2 2-2.5' (H241906-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEx	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	04/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V - 2 3-3.5' (H241906-09)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61		
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07		
Total BTX	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7860	16.0	04/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V - 2 4-4.5' (H241906-10)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	04/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H - 1 0-.5' (H241906-11)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H - 2 0-.5' (H241906-12)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61		
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07		
Total BTX	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	04/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H - 3 0-.5' (H241906-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61		
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07		
Total BTEX	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	21.3	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H - 4 0-.5' (H241906-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61		
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07		
Total BTEx	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	203	102	200	0.0452	
DRO >C10-C28*	20.0	10.0	04/12/2024	ND	187	93.4	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 04/11/2024  
 Reported: 04/16/2024  
 Project Name: N THISTLE 2-35  
 Project Number: NONE GIVEN  
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H - 5 0-.5' (H241906-15)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61		
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07		
Total BTX	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	203	102	200	0.0452	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	187	93.4	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in black ink, appearing to read "C. 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

<b>Company Name:</b> NTC <b>Project Manager:</b> Ethan Sessions <b>Address:</b> 209 W McIney <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> 254-266-5456 <b>Fax #:</b> <b>Project #:</b> <b>Project Owner:</b> Devon <b>Project Name:</b> N Thistle 2-35 <b>Project Location:</b> Lea County <b>Sampler Name:</b> Tyler Kimball				<b>BILL TO</b> <b>P.O. #:</b> 21324101 <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>																	
<b>FOR LAB USE ONLY</b> <b>Lab I.D.</b> H41K06		<b>Sample I.D.</b>		<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		<b>PRESERV.</b> ACID/BASE: ICE/COOL OTHER:		<b>SAMPLING</b> DATE TIME		214 Chlorides BTEX													
1 2 3 4 5 6 7 8 9 10		Y-1 0-5' Y-1 1-1.5' Y-1 2-2.5' Y-1 3-3.5' Y-1 4-4.5' Y-2 0-1.5' Y-2 1-1.5' Y-2 2-2.5' Y-2 3-3.5' Y-2 4-4.5'		X		X		4-11 9:00															
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<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> -0.3 <b>Corrected Temp. °C</b>		<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		<b>CHECKED BY:</b> (Initials) 		<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		<b>Bacteria (only) Sample Condition</b> Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C													
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS: Thermometer ID #140 Correction Factor 0°C																							

FORM-006 R 3-4 07/11/23

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





**CARDINAL**  
Laboratories

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(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 19 of 19

Company Name: <b>NTWC</b> Project Manager: <b>Ethan Sessions</b> Address: <b>209 W Mcaley</b> City: <b>Carlsbad</b> State: <b>NM</b> Zip: <b>88220</b> Phone #: <b>254-266-5456</b> Fax #: Project #: Project Owner: <b>Devon</b> Project Name: <b>N Thistle 2-35</b> Project Location: <b>Lea County</b> Sampler Name: <b>Tyler Kimball</b>		<b>BILL TO</b> P.O. #: <b>21324101</b> Company: Attn: Address: City: State: Zip: Phone #: Fax #:		<b>ANALYSIS REQUEST</b>																	
FOR LAB USE ONLY <b>H241906</b> Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE COOL OTHER:		SAMPLING DATE TIME		214 Chlorides BTEX									
11 12 13 14 15		H-1 0-.5 H-2 0-.5 H-3 0-.5 H-4 0-.5 H-5 0-.5		6 1 1 1 1		X       		       		4-11 9:30         		       									

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Relinquished By: 		Date: 4-11-24	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:		Time: 2:25		All Results are emailed. Please provide Email address:
		Date:	Received By:	REMARKS:
		Time:		
Delivered By: (Circle One)		Observed Temp. °C - 0.3	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C	CHECKED BY: (Initials) 	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
				Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
				Thermometer ID #140 Correction Factor 0°C
				Observed Temp. °C Corrected Temp. °C

~~FORM 000 R 3.4 07/11/20~~

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

May 28, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: NORTH THISTLE 2-35 FEDERAL #001H

Enclosed are the results of analyses for samples received by the laboratory on 05/21/24 10:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 05/21/2024  
 Reported: 05/28/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 05/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: TP - 1 5-5.5 (H242776-01)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.94	97.2	2.00	4.08	
Toluene*	<0.050	0.050	05/21/2024	ND	1.97	98.7	2.00	3.62	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.99	99.6	2.00	3.99	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.89	98.2	6.00	3.14	
Total BTEX	<0.300	0.300	05/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/21/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	198	98.8	200	3.07	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	183	91.7	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 05/21/2024  
 Reported: 05/28/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 05/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: TP - 1 6-6.5 (H242776-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/21/2024	ND	1.94	97.2	2.00	4.08		
Toluene*	<0.050	0.050	05/21/2024	ND	1.97	98.7	2.00	3.62		
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.99	99.6	2.00	3.99		
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.89	98.2	6.00	3.14		
Total BTEx	<0.300	0.300	05/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	198	98.8	200	3.07	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	183	91.7	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 05/21/2024  
 Reported: 05/28/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 05/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: TP - 2 5-5.5 (H242776-03)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/21/2024	ND	1.94	97.2	2.00	4.08		
Toluene*	<0.050	0.050	05/21/2024	ND	1.97	98.7	2.00	3.62		
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.99	99.6	2.00	3.99		
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.89	98.2	6.00	3.14		
Total BTX	<0.300	0.300	05/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	198	98.8	200	3.07	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	183	91.7	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 05/21/2024  
 Reported: 05/28/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 05/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: TP - 2 6-6.5 (H242776-04)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	2.05	102	2.00	3.68	
Toluene*	<0.050	0.050	05/22/2024	ND	2.05	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.10	105	2.00	0.0285	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.24	104	6.00	0.334	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	198	98.8	200	3.07	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	183	91.7	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

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: MTGE				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																	
Project Manager: Ethan Scorsung				P.O. #: 21324101																																					
Address: 204 W. McKay Street				Company: Denvon																																					
City: Corisbaud State: NM Zip: 88220				Attn: Duke Woodall																																					
Phone #: 254-266-3456 Fax #:				Address:																																					
Project #: 248613 Project Owner: Denvon				City:																																					
Project Name: North Thistle 2-25 Federal #001H				State: Zip:																																					
Project Location: Lea Co, NM				Phone #:																																					
Sampler Name: Kenny Han				Fax #:																																					
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING																													
						# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
1242774		1		TP-1		5-6.5		G																		5/21/24		7:30		BTEx											
2		↓		6-6.5		G																				↓		7:35		TPH											
3		TP-2		5-5.5		G																				↓		7:50		Chloride											
4		↓		6-6.5		G																				↓		7:55													

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Relinquished By:		Date: 5/21/24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1001		Time: 1001		Time: 1001		All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:		Time:			
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
		39.2		<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Correction Factor 0°C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Cool Intact Observed Temp. °C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C	

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



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

September 03, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: NORTH THISTLE 2-35 FEDERAL #001H

Enclosed are the results of analyses for samples received by the laboratory on 08/30/24 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 1 (H245312-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	08/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	720	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	122	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 2 (H245312-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71		
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	1680	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	361	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 186 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 3 (H245312-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEx	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 4 (H245312-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEx	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 5 (H245312-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEx	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 6 (H245312-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	52.9	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 7 (H245312-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	336	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	61.7	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 8 (H245312-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 9 (H245312-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEx	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 10 (H245312-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEx	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 11 (H245312-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEx	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4040	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	23.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 12 (H245312-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEx	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 1 (H245312-13)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81	
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82	
Total BTEx	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	103	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	32.7	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 2 (H245312-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/03/2024	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 3 (H245312-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/03/2024	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	56.7	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 4 (H245312-16)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81	
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82	
Total BTX	<0.300	0.300	08/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	09/03/2024	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	617	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	67.5	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 5 (H245312-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEx	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 6 (H245312-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 7 (H245312-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/03/2024	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 8 (H245312-20)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEX	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/03/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	186	92.9	200	0.842	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	193	96.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/30/2024  
 Reported: 09/03/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 08/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 9 (H245312-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2024	ND	1.95	97.7	2.00	5.81		
Toluene*	<0.050	0.050	08/30/2024	ND	2.02	101	2.00	4.57		
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.03	102	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.26	104	6.00	4.82		
Total BTEx	<0.300	0.300	08/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	09/03/2024	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a light blue horizontal line.

---

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: <u>NTOE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Ethan Sessums</u>				P.O. #: <u>21524101</u>				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>											
Address: <u>209 W McIlroy</u>				Company:															
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn:															
Phone #: <u>254-246-5456</u> Fax #:				Address:															
Project #: <u>248613</u> Project Owner: <u>Devon</u>				City:															
Project Name: <u>N Thistle 2.35</u>				State: Zip:															
Project Location: <u>Lea County</u>				Phone #:															
Sampler Name: <u>Cyler Umbell</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING					
								GROUNDWATER											
								WASTEWATER											
								SOIL											
								OIL											
								SLUDGE											
								OTHER:											
								ACID/BASE:											
								ICE / COOL:											
								OTHER:											
								DATE				TIME							
<u>H245312</u>		<u>CS-1</u>		<u>C</u>		<u>1</u>		<u>X</u>				<u>8-30</u>		<u>10:00</u>					
<u>2</u>		<u>CS-2</u>																	
<u>3</u>		<u>CS-3</u>																	
<u>4</u>		<u>CS-4</u>																	
<u>5</u>		<u>CS-5</u>																	
<u>6</u>		<u>CS-6</u>																	
<u>7</u>		<u>CS-7</u>																	
<u>8</u>		<u>CS-8</u>																	
<u>9</u>		<u>CS-9</u>																	
<u>10</u>		<u>CS-10</u>																	
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																			
Relinquished By: <u>[Signature]</u>				Date: <u>8-30-24</u>				Received By: <u>[Signature]</u>				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:							
Relinquished By:				Time: <u>1:00</u>				Received By:				All Results are emailed. Please provide Email address:							
Delivered By: (Circle One)				Date:				REMARKS:											
Time:				Observed Temp. °C <u>1.5</u>				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>							
Sampler - UPS - Bus - Other:				Corrected Temp. °C <u>0.9</u>				CHECKED BY: (Initials) <u>SK</u>				Thermometer ID #140 Correction Factor -0.6°C							
FORM-000-R 3.3 08/03/24												Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C							

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>NTOE</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
Project Manager: <u>Ethan Sessums</u>		P.O. #: <u>21324101</u>		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>									
Address: <u>209 W McLaugh</u>		Company:											
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>		Attn:											
Phone #: <u>254-246-5456</u> Fax #:		Address:											
Project #: <u>248613</u> Project Owner: <u>Devon</u>		City:											
Project Name: <u>N Thistle 2.35</u>		State: Zip:											
Project Location: <u>Lea County</u>		Phone #:											
Sampler Name: <u>Cyler Umbell</u>		Fax #:											
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	
<u>H245312</u>						X							
<u>11</u>	<u>CS-11</u>	<u>C</u>	<u>1</u>										
<u>12</u>	<u>CS-12</u>												
<u>13</u>	<u>SW-1</u>												
<u>14</u>	<u>SW-2</u>												
<u>15</u>	<u>SW-3</u>												
<u>16</u>	<u>SW-4</u>												
<u>17</u>	<u>SW-5</u>												
<u>18</u>	<u>SW-6</u>												
<u>19</u>	<u>SW-7</u>												
<u>20</u>	<u>SW-8</u>												

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Relinquished By: <u>[Signature]</u>	Date: <u>8-30-24</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: <u>1:00</u>			All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
Time:			
Delivered By: (Circle One)	Observed Temp. °C <u>1.50</u>	Sample Condition	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>0.92</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition
		CHECKED BY: (Initials) <u>SK</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #140
			Correction Factor -0.6°C
			Corrected Temp. °C

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>NTOE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Ethan Sessums</u>				P.O. #: <u>21324101</u>				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>											
Address: <u>209 W McWay</u>				Company:															
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn:															
Phone #: <u>254-246-5456</u> Fax #:				Address:															
Project #: <u>248613</u> Project Owner: <u>Devon</u>				City:															
Project Name: <u>N Thistle 2.35</u>				State: Zip:															
Project Location: <u>Lea County</u>				Phone #:															
Sampler Name: <u>Cyler Umbell</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING									
						GROUNDWATER													
						WASTEWATER													
						SOIL													
						OIL													
						SLUDGE													
						OTHER:													
						ACID/BASE:													
						ICE / COOL													
						OTHER:													
						DATE		TIME											
<u>124531a</u>		<u>Sw-9</u>		<u>C 1</u>		<u>X</u>				<u>8-30</u>		<u>10:30</u>		<u>X X X</u>					

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Relinquished By: <u>[Signature]</u>		Date: <u>8-30-24</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1:00</u>		Time: <u>1:00</u>		Time: <u>1:00</u>		All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:		Time:			
Delivered By: (Circle One)		Observed Temp. °C <u>15.4</u>		Sample Condition		Turnaround Time: <u>Standard</u> <input type="checkbox"/> <u>Rush</u> <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>0.92</u>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition	
				Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Observed Temp. °C	
				CHECKED BY: (Initials) <u>SK</u>		Thermometer ID #140	
						Correction Factor -0.6°C	
						Corrected Temp. °C	

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September 12, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: NORTH THISTLE 2-35 FEDERAL #001H

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 14:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 4 (H245478-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 5 (H245478-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 6 (H245478-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 7 (H245478-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	501	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	113	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 71.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 8 (H245478-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 11 (H245478-06)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 12 (H245478-07)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 13 (H245478-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 8A (H245478-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 9A (H245478-10)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 10 (H245478-11)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 11 (H245478-12)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	203	102	200	0.495	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	205	102	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 12 (H245478-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2024	ND	1.80	90.0	2.00	7.81		
Toluene*	<0.050	0.050	09/11/2024	ND	1.71	85.7	2.00	5.75		
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.76	88.2	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.20	86.7	6.00	4.64		
Total BTEX	<0.300	0.300	09/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	204	102	200	0.927	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	198	98.8	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 13 (H245478-14)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	ND	2.00	100	2.00	11.6	
Toluene*	<0.050	0.050	09/11/2024	ND	2.26	113	2.00	9.85	QM-07
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.46	123	2.00	8.43	QM-07
Total Xylenes*	<0.150	0.150	09/11/2024	ND	7.55	126	6.00	8.30	QM-07
Total BTEX	<0.300	0.300	09/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	204	102	200	0.927	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	198	98.8	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/10/2024  
 Reported: 09/12/2024  
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H  
 Project Number: 248613  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 09/10/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 14 (H245478-15)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	ND	2.00	100	2.00	11.6	
Toluene*	<0.050	0.050	09/11/2024	ND	2.26	113	2.00	9.85	
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.46	123	2.00	8.43	
Total Xylenes*	<0.150	0.150	09/11/2024	ND	7.55	126	6.00	8.30	
Total BTEX	<0.300	0.300	09/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2024	ND	204	102	200	0.927	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	198	98.8	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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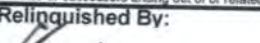

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

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Relinquished By: 		Date: 9/10/24 Time: 1414		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:		Received By:		All Results are emailed. Please provide Email address:	
		Time:				REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C 42.2		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 3.0		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
FORM-006 R 3.3 08/03/24				<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140 Correction Factor -0.6°C	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to [celey.keena@cardinallabsnm.com](mailto:celey.keena@cardinallabsnm.com)





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>MTGE</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>														
Project Manager: <b>Ethan Sessums</b>				P.O. #: <b>21324101</b>																		
Address: <b>209 W McKay Street</b>				Company: <b>Dawn</b>																		
City: <b>Carlsbad</b> State: <b>NM</b> Zip: <b>88220</b>				Attn: <b>Rick Woodall</b>																		
Phone #: <b>254-266-5456</b> Fax #:				Address:																		
Project #: <b>248613</b> Project Owner: <b>Dawn</b>				City:																		
Project Name: <b>North Thistle 2-35 Fed IH</b>				State: Zip:																		
Project Location: <b>Lea Co, NM</b>				Phone #:																		
Sampler Name: <b>Lenny Han</b>				Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME								
<b>1245178</b>																						
<b>11</b>	<b>SW-10</b>	<b>C</b>	<b>1</b>			<b>X</b>							<b>9/10/24</b>									
<b>12</b>	<b>SW-11</b>																					
<b>13</b>	<b>SW-12</b>																					
<b>14</b>	<b>SW-13</b>																					
<b>15</b>	<b>SW-14</b>																					

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Relinquished By:	Date: <b>9/10/24</b> Time: <b>1414</b>	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Time:			REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <b>4.2</b> Corrected Temp. °C <b>3.0</b>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <b>SK</b>
			Turnaround Time: <b>Standard</b> <input type="checkbox"/> <b>Rush</b> <input checked="" type="checkbox"/>
			Thermometer ID #140 Correction Factor -0.6°C
			Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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---

September 23, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: N THISTLE 2-35

Enclosed are the results of analyses for samples received by the laboratory on 09/18/24 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-4	H245674-01	Soil	18-Sep-24 00:00	18-Sep-24 13:30
CS-12	H245674-02	Soil	18-Sep-24 00:00	18-Sep-24 13:30
SW-22	H245674-03	Soil	18-Sep-24 00:00	18-Sep-24 13:30
SW-15	H245674-04	Soil	18-Sep-24 00:00	18-Sep-24 13:30
SW-16	H245674-05	Soil	18-Sep-24 00:00	18-Sep-24 13:30
SW-17	H245674-06	Soil	18-Sep-24 00:00	18-Sep-24 13:30
SW-18	H245674-07	Soil	18-Sep-24 00:00	18-Sep-24 13:30
SW-19	H245674-08	Soil	18-Sep-24 00:00	18-Sep-24 13:30
SW-20	H245674-09	Soil	18-Sep-24 00:00	18-Sep-24 13:30
SW-21	H245674-10	Soil	18-Sep-24 00:00	18-Sep-24 13:30

09/23/24 - Client changed the sample ID on -03 (see COC). This is the revised report and will replace the one sent on 09/20/24.

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**CS-4****H245674-01 (Soil)**

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

Chloride	16.0	16.0	mg/kg	4	4091920	HM	19-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4091828	JH	19-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	107 %	71.5-134	4091828	JH	19-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane	97.4 %	48.2-134	4091833	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane	115 %	49.1-148	4091833	MS	19-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**CS-12**  
**H245674-02 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	19-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		4091828	JH	19-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			90.7 %	48.2-134		4091833	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			108 %	49.1-148		4091833	MS	19-Sep-24	8015B	
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\*=Accredited Analyte

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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: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**SW-22****H245674-03 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	19-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4091828	JH	19-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			94.7 %	48.2-134		4091833	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			116 %	49.1-148		4091833	MS	19-Sep-24	8015B	
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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: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**SW-15****H245674-04 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	19-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4091828	JH	19-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			94.9 %	48.2-134		4091833	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			116 %	49.1-148		4091833	MS	19-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**SW-16****H245674-05 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	19-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		4091828	JH	19-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			97.2 %	48.2-134		4091833	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %	49.1-148		4091833	MS	19-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**SW-17****H245674-06 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	19-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		4091828	JH	19-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			101 %	48.2-134		4091833	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			121 %	49.1-148		4091833	MS	19-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**SW-18****H245674-07 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	19-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		4091828	JH	19-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			102 %	48.2-134		4091833	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %	49.1-148		4091833	MS	19-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**SW-19****H245674-08 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	19-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	19-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		4091828	JH	19-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			100 %	48.2-134		4091833	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			119 %	49.1-148		4091833	MS	19-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**SW-20****H245674-09 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	20-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4091828	JH	20-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			90.0 %	48.2-134		4091833	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			113 %	49.1-148		4091833	MS	19-Sep-24	8015B	
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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**SW-21****H245674-10 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	20-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4091828	JH	20-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091833	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			87.7 %	48.2-134		4091833	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	49.1-148		4091833	MS	19-Sep-24	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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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: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4091920 - 1:4 DI Water****Blank (4091920-BLK1)**

Prepared &amp; Analyzed: 19-Sep-24

Chloride	ND	16.0	mg/kg						
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**LCS (4091920-BS1)**

Prepared &amp; Analyzed: 19-Sep-24

Chloride	400	16.0	mg/kg	400	100	80-120			
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**LCS Dup (4091920-BSD1)**

Prepared &amp; Analyzed: 19-Sep-24

Chloride	416	16.0	mg/kg	400	104	80-120	3.92	20	
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**Batch 4092003 - 1:4 DI Water****Blank (4092003-BLK1)**

Prepared &amp; Analyzed: 20-Sep-24

Chloride	ND	16.0	mg/kg						
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**LCS (4092003-BS1)**

Prepared &amp; Analyzed: 20-Sep-24

Chloride	400	16.0	mg/kg	400	100	80-120			
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**LCS Dup (4092003-BSD1)**

Prepared &amp; Analyzed: 20-Sep-24

Chloride	416	16.0	mg/kg	400	104	80-120	3.92	20	
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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**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 4091828 - Volatiles****Blank (4091828-BLK1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0528		mg/kg	0.0500		106	71.5-134			

**LCS (4091828-BS1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

Benzene	2.32	0.050	mg/kg	2.00		116	82.8-130			
Toluene	2.19	0.050	mg/kg	2.00		109	86-128			
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	85.9-128			
m,p-Xylene	4.41	0.100	mg/kg	4.00		110	89-129			
o-Xylene	2.18	0.050	mg/kg	2.00		109	86.1-125			
Total Xylenes	6.59	0.150	mg/kg	6.00		110	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	71.5-134			

**LCS Dup (4091828-BSD1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

Benzene	2.35	0.050	mg/kg	2.00		117	82.8-130	1.24	15.8	
Toluene	2.17	0.050	mg/kg	2.00		109	86-128	0.761	15.9	
Ethylbenzene	2.17	0.050	mg/kg	2.00		109	85.9-128	0.183	16	
m,p-Xylene	4.39	0.100	mg/kg	4.00		110	89-129	0.330	16.2	
o-Xylene	2.17	0.050	mg/kg	2.00		108	86.1-125	0.579	16.7	
Total Xylenes	6.56	0.150	mg/kg	6.00		109	88.2-128	0.412	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.2	71.5-134			

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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
23-Sep-24 15:58

**Petroleum Hydrocarbons by GC FID - 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 4091833 - General Prep - Organics****Blank (4091833-BLK1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.1		mg/kg	50.0		100	48.2-134			
Surrogate: 1-Chlorooctadecane	59.2		mg/kg	50.0		118	49.1-148			

**LCS (4091833-BS1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

GRO C6-C10	198	10.0	mg/kg	200		99.2	66.4-123			
DRO >C10-C28	200	10.0	mg/kg	200		100	66.5-118			
Total TPH C6-C28	399	10.0	mg/kg	400		99.7	77.6-123			
Surrogate: 1-Chlorooctane	55.1		mg/kg	50.0		110	48.2-134			
Surrogate: 1-Chlorooctadecane	62.7		mg/kg	50.0		125	49.1-148			

**LCS Dup (4091833-BS1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

GRO C6-C10	197	10.0	mg/kg	200		98.4	66.4-123	0.771	17.7	
DRO >C10-C28	199	10.0	mg/kg	200		99.4	66.5-118	0.725	21	
Total TPH C6-C28	396	10.0	mg/kg	400		98.9	77.6-123	0.748	18.5	
Surrogate: 1-Chlorooctane	54.8		mg/kg	50.0		110	48.2-134			
Surrogate: 1-Chlorooctadecane	62.4		mg/kg	50.0		125	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager





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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>UTGE</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: <b>Ethan Sessums</b>				P.O. #: <b>21324101</b>																					
Address: <b>209 W. McKay St</b>				Company: <b>Devon</b>																					
City: <b>Carlsbad</b> State: <b>NM</b> Zip: <b>88220</b>				Attn: <b>Rale Woodall</b>																					
Phone #: <b>575-988-8856</b> Fax #:				Address:																					
Project #: <b>248613</b> Project Owner: <b>Devon</b>				City:																					
Project Name: <b>N. Thistle 2-35</b>				State: Zip:																					
Project Location: <b>lea Co, NM</b>				Phone #:																					
Sampler Name: <b>Lenny Hum</b>				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING		DATE		TIME		BTEx		TPH		Chloride	
H249074				C		1		GROUNDWATER				ACID/BASE:				9/18/24									
1		CS-4						WASTEWATER				ICE / COOL													
2		CS-12						SOIL				OTHER:													
3		SW-14						OIL																	
4		SW-15						SLUDGE																	
5		SW-16						OTHER:																	
6		SW-17						ACID/BASE:																	
7		SW-18						ICE / COOL																	
8		SW-19						OTHER:																	
9		SW-20						DATE																	
10		SW-21						TIME																	

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Relinquished By:		Date: <b>9/18/24</b>		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: <b>1330</b>		Received By:		All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)		Observed Temp. °C <b>0.8</b>		Sample Condition		REMARKS: <b>*sample ID correction per customer - Spodriguey 9-23-24</b>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <b>0.2</b>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <b>Standard</b> <input type="checkbox"/> <b>Rush</b> <input checked="" type="checkbox"/>	
				CHECKED BY: <b>SP</b>		Thermometer ID #140	
						Correction Factor -0.6°C	
						Bacteria (only) Sample Condition	
						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Observed Temp. °C	
						Corrected Temp. °C	

FORM-006 R-3.5 08/03/24

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

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September 26, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: N THISTLE 2-35

Enclosed are the results of analyses for samples received by the laboratory on 09/18/24 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
26-Sep-24 15:59

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DV - 1 10-10.5'	H245675-01	Soil	18-Sep-24 00:00	18-Sep-24 13:30
DV - 1 9-9.5'	H245675-02	Soil	18-Sep-24 00:00	18-Sep-24 13:30
DV - 1 8-8.5'	H245675-03	Soil	18-Sep-24 00:00	18-Sep-24 13:30
DV - 1 11-11.5'	H245675-04	Soil	18-Sep-24 00:00	18-Sep-24 13:30

09/26/24 - Client changed the sample ID for -01 and -03 (see COC). This is the revised report and will replace the one sent on 09/20/24.

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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
26-Sep-24 15:59

**DV - 1 10-10.5'****H245675-01 (Soil)**

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

<b>Chloride</b>	<b>464</b>		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4091828	JH	20-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	113 %	71.5-134	4091828	JH	20-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4091835	MS	19-Sep-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4091835	MS	19-Sep-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4091835	MS	19-Sep-24	8015B

Surrogate: 1-Chlorooctane	98.1 %	48.2-134	4091835	MS	19-Sep-24	8015B
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Surrogate: 1-Chlorooctadecane	103 %	49.1-148	4091835	MS	19-Sep-24	8015B
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
26-Sep-24 15:59

**DV - 1 9-9.5'**  
**H245675-02 (Soil)**

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

<b>Chloride</b>	<b>1180</b>		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	20-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		4091828	JH	20-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091835	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091835	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091835	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			104 %	48.2-134		4091835	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	49.1-148		4091835	MS	19-Sep-24	8015B	
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\*=Accredited Analyte

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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: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
26-Sep-24 15:59

**DV - 1 8-8.5'**  
**H245675-03 (Soil)**

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

<b>Chloride</b>	<b>2840</b>		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4091828	JH	20-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	113 %	71.5-134	4091828	JH	20-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4091835	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4091835	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4091835	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane	100 %	48.2-134	4091835	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane	107 %	49.1-148	4091835	MS	19-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
26-Sep-24 15:59

**DV - 1 11-11.5'****H245675-04 (Soil)**

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

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4092003	CT	20-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091828	JH	20-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091828	JH	20-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4091828	JH	20-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091840	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091840	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091840	MS	19-Sep-24	8015B	

Surrogate: 1-Chlorooctane			90.6 %	48.2-134		4091840	MS	19-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			122 %	49.1-148		4091840	MS	19-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
26-Sep-24 15:59

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4092003 - 1:4 DI Water</b>									
<b>Blank (4092003-BLK1)</b>				Prepared & Analyzed: 20-Sep-24					
Chloride	ND	16.0	mg/kg						
<b>LCS (4092003-BS1)</b>				Prepared & Analyzed: 20-Sep-24					
Chloride	400	16.0	mg/kg	400		100	80-120		
<b>LCS Dup (4092003-BSD1)</b>				Prepared & Analyzed: 20-Sep-24					
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20

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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
26-Sep-24 15:59

**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 4091828 - Volatiles****Blank (4091828-BLK1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0528		mg/kg	0.0500		106	71.5-134			

**LCS (4091828-BS1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

Benzene	2.32	0.050	mg/kg	2.00		116	82.8-130			
Toluene	2.19	0.050	mg/kg	2.00		109	86-128			
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	85.9-128			
m,p-Xylene	4.41	0.100	mg/kg	4.00		110	89-129			
o-Xylene	2.18	0.050	mg/kg	2.00		109	86.1-125			
Total Xylenes	6.59	0.150	mg/kg	6.00		110	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	71.5-134			

**LCS Dup (4091828-BSD1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

Benzene	2.35	0.050	mg/kg	2.00		117	82.8-130	1.24	15.8	
Toluene	2.17	0.050	mg/kg	2.00		109	86-128	0.761	15.9	
Ethylbenzene	2.17	0.050	mg/kg	2.00		109	85.9-128	0.183	16	
m,p-Xylene	4.39	0.100	mg/kg	4.00		110	89-129	0.330	16.2	
o-Xylene	2.17	0.050	mg/kg	2.00		108	86.1-125	0.579	16.7	
Total Xylenes	6.56	0.150	mg/kg	6.00		109	88.2-128	0.412	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.2	71.5-134			

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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
26-Sep-24 15:59

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4091835 - General Prep - Organics****Blank (4091835-BLK1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0		106	48.2-134		
Surrogate: 1-Chlorooctadecane	57.7		mg/kg	50.0		115	49.1-148		

**LCS (4091835-BS1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

GRO C6-C10	199	10.0	mg/kg	200		99.5	66.4-123		
DRO >C10-C28	196	10.0	mg/kg	200		98.0	66.5-118		
Total TPH C6-C28	395	10.0	mg/kg	400		98.8	77.6-123		
Surrogate: 1-Chlorooctane	57.9		mg/kg	50.0		116	48.2-134		
Surrogate: 1-Chlorooctadecane	62.0		mg/kg	50.0		124	49.1-148		

**LCS Dup (4091835-BS1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

GRO C6-C10	202	10.0	mg/kg	200		101	66.4-123	1.57	17.7
DRO >C10-C28	201	10.0	mg/kg	200		100	66.5-118	2.36	21
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.6-123	1.96	18.5
Surrogate: 1-Chlorooctane	58.5		mg/kg	50.0		117	48.2-134		
Surrogate: 1-Chlorooctadecane	63.8		mg/kg	50.0		128	49.1-148		

**Batch 4091840 - General Prep - Organics****Blank (4091840-BLK1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	43.6		mg/kg	50.0		87.2	48.2-134		
Surrogate: 1-Chlorooctadecane	58.2		mg/kg	50.0		116	49.1-148		

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**Analytical Results For:**

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

Project: N THISTLE 2-35  
Project Number: 248613  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
26-Sep-24 15:59

**Petroleum Hydrocarbons by GC FID - 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 4091840 - General Prep - Organics****LCS (4091840-BS1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

GRO C6-C10	190	10.0	mg/kg	200		95.2	66.4-123			
DRO >C10-C28	196	10.0	mg/kg	200		97.8	66.5-118			
Total TPH C6-C28	386	10.0	mg/kg	400		96.5	77.6-123			
Surrogate: 1-Chlorooctane	48.2		mg/kg	50.0		96.5	48.2-134			
Surrogate: 1-Chlorooctadecane	63.1		mg/kg	50.0		126	49.1-148			

**LCS Dup (4091840-BS1)**

Prepared: 18-Sep-24 Analyzed: 19-Sep-24

GRO C6-C10	189	10.0	mg/kg	200		94.5	66.4-123	0.671	17.7	
DRO >C10-C28	196	10.0	mg/kg	200		98.1	66.5-118	0.232	21	
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	77.6-123	0.212	18.5	
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.3	48.2-134			
Surrogate: 1-Chlorooctadecane	62.3		mg/kg	50.0		125	49.1-148			

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

9/18/24 KH

Company Name: NTGE				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Ethan Sessums				P.O. #: <del>21324101</del> 21324101															
Address: 209 W. McKay St				Company: Deron															
City: Carlsbad State: NM Zip: 88220				Attn: Dale Woodall															
Phone #: 575-988-8856 Fax #:				Address:															
Project #: 248613 Project Owner: Deron				City:															
Project Name: N. Thistle 2-35				State: Zip:															
Project Location: Ken Co, NM				Phone #:															
Sampler Name: Kenny Han				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING		BTEX TPH Chloride							
H245075 1 2 3 4		DU-1 ↓ 8-8.5 9-9.5 10-10.5 11-11.5		# CONTAINERS G 1 ↓ ↓		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: X		ACID/BASE: ICE / COOL OTHER: ✓		DATE 9/18/24 ↓						TIME			

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Relinquished By:		Date: 9/18/24	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 1330	Received By:		All Results are emailed. Please provide Email address:	
Date:		Time:		REMARKS: * Customer requested Depth changes to 9/26/24		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 0.8	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) SK	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
FORM-000 R 3.0 06/03/24		Corrected Temp. °C 0.2	<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140 Correction Factor -0.6°C	Corrected Temp. °C

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

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 402867

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 402867
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409932604
Incident Name	NAPP2409932604 NORTH THISTLE 2 35 FEDERAL #001H @ 30-025-42831
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-025-42831] NORTH THISTLE 2 35 FEDERAL #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NORTH THISTLE 2 35 FEDERAL #001H
Date Release Discovered	04/07/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 30 BBL   Recovered: 20 BBL   Lost: 10 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A leak developed on an underground flowline and released oil onto the pad. The wells were shut in to stop the leak. 20 bbls were recovered.



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QUESTIONS, Page 2

Action 402867

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 402867
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 11/13/2024
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QUESTIONS, Page 3

Action 402867

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 402867
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	22400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	342
GRO+DRO (EPA SW-846 Method 8015M)	304
BTEX (EPA SW-846 Method 8021B or 8260B)	4
Benzene (EPA SW-846 Method 8021B or 8260B)	1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/22/2024
On what date will (or did) the final sampling or liner inspection occur	09/19/2024
On what date will (or was) the remediation complete(d)	09/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1906
What is the estimated volume (in cubic yards) that will be remediated	459

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 402867

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 402867
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 07/17/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 402867

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 402867
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	There are multiple underground pipelines within the area along with the wellhead. It would be unfeasible to remediate the impacted area without major facility deconstruction.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	300
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	34
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-42831 NORTH THISTLE 2 35 FEDERAL #001H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 11/13/2024

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QUESTIONS, Page 6  
  
Action 402867

QUESTIONS (continued)

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	Action Number: 402867
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	381116
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/10/2024
What was the (estimated) number of samples that were to be gathered	18
What was the sampling surface area in square feet	2150

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No



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CONDITIONS

Action 402867

CONDITIONS

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	Action Number: 402867
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	2/26/2025