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April 16, 2025

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

**Re: Incident Closure Report  
Caza Operating, LLC  
Forehand Ranch 27 State #005  
Unit B, Section 27, Township 23S, Range 27E  
Site Coordinates: 32.2818832, -104.1749268  
Eddy County, New Mexico  
Incident ID: nAPP2217321612**

### **Introduction**

NTG Environmental, LLC (NTGE), on behalf of Caza Operating, LLC (Caza), submits this Incident Closure Report to the New Mexico Oil Conservation Division (NMOCD). This report provides documentation of initial soil delineation, sampling analysis, and remediation activities conducted to date in the affected areas at the Forehand Ranch 27 State #005 (Site). The Site is in Unit Letter B, Section 27, of Township 23 South and Range 27 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.2818832° N Latitude and -104.1749268° W Longitude. The Site location with respect to the nearest town is shown on Figure 1 and the topography of the area is shown on Figure 2.

### **Background**

Based on the initial C-141 submitted by Caza and obtained by the New Mexico Oil Conservation District (NMOCD), the release was discovered on June 20, 2022. The release was the result of an equipment failure, resulting in the release of twenty (20) barrels (bbls) of produced water, of which twenty (20) bbls were recovered. Upon discovery the well was shut-in, and the area was secure. The release area is shown in Figure 3.

### **Groundwater and Site Characterization**

Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water well within a ½-mile radius of the Site. C-00518-Pod2 was drilled in 2008 with a depth to groundwater of 98 foot below ground surface (ft bgs). No other receptors (playas,

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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 High Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) is attached to the report.

NTGE commissioned Southwest Geophysical Consulting, LLC to conduct an environmental karst survey. The survey showed there are no surface karst features within 200 foot of the release and the area is within stable ground. The survey is attached to the 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)
Stable Ground	98'

**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)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation, and Re-Vegetation (<4 feet bgs)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

### **Site Assessment Activities**

On January 16, 2025, NTGE conducted site assessment activities to determine the extent of the release impact. A total of four (4) vertical sample points (i.e., V-1 – V-4) were installed at depths ranging from zero to fifteen and a half (0-15.5) feet below ground surface (ft bgs). Additionally, seven (7) horizontal sample points (i.e., H-1 – H-7) were installed at depths ranging from zero to half a (0-0.5) ft bgs.

Site assessment activities were conducted to fully characterize and delineate the extent of impacts resulting from the release. Soil samples were collected from the Site using a backhoe and submitted to an accredited laboratory for chemical analysis. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) (by EPA Method 8021B), total petroleum hydrocarbon (TPH) (by EPA method 8015 modified), and chloride (EPA method SM

4500Cl<sup>-</sup>B). The combined analytical results of the Site assessment activities are provided in Table 1. Soil sample locations are shown in Figure 3. Laboratory reports containing analytical methods and chain-of-custody documents are attached. Analytical results from the initial assessment activities identified elevated chloride and/or TPH concentrations at the following sample points: V-2, V-3 and V-4. Analytical results of all the remaining samples were below the NMOCD regulatory limits for all analytes.

### **Excavation, Waste Management and Confirmation Sampling**

Based on the Site assessment activities, Caza proceeded with the remedial action activities at the Site to include the excavation and disposal of impacted soils above NMOCD regulatory limits. The Site was excavated to depths of four (4) and eight (8) ft bgs. Upon completion of the excavation, confirmation samples were collected from the excavation's sidewalls and base. The confirmation samples were collected in accordance with the one sample per 200 square feet (sq ft) guideline established in the NMOCD regulatory criteria.

On March 14, 2025, a total of thirty-seven (37) confirmation samples were collected. Thirty (30) confirmation samples (i.e., CS-1 – CS-30) were collected from the excavation base as well as seven (7) confirmation samples (i.e., SW-1 – SW-7) were collected from the excavation sidewalls. Analytical results of all the confirmation samples were below the NMOCD regulatory limits for all analytes.

The excavation extent, excavation depths, and confirmation sample locations are shown on Figure 4. A total of approximately 1,050 cubic yards (yd<sup>3</sup>) of impacted soil was excavated and transported to a permitted disposal facility. All soil samples were analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (EPA method SM 4500Cl<sup>-</sup>B). Copies of laboratory analysis and chain-of-custody documentation are attached. The analytical results are summarized in Table 2.

### **Closure Request**

Based on the assessment and subsequent remedial action activities, the Site is compliant with NMOCD's regulatory requirements. Caza formally requests a closure for the Site (nAPP2217321612). If you have any questions regarding this report or need additional information, please contact us at (832) 374-0004.

Sincerely,

NTG Environmental



Kellan Smith  
Project Manager

**Tables**



**Table 1**  
**Summary of Soil Analytical Data - Delineation Samples**  
**Forehand Ranch 27 State Com #005**  
**Caza Operating, LLC**  
**Eddy 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)	(C6-C10)	(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC													
10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg			
Vertical Delineation Samples													
V-1	1/16/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
	1/16/2025	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
	1/16/2025	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
	1/16/2025	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
	1/16/2025	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
V-2	1/16/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,480
	1/16/2025	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,160
	1/16/2025	2-2.5'	<0.050	<0.050	0.423	0.538	0.961	29.8	284	313.8	50.3	364.1	3,480
	1/16/2025	3-3.5'	<0.050	<0.050	1.88	6.28	8.16	312	1,170	1,482	213	1,695	7,460
	1/16/2025	4-4.5'	<0.050	<0.050	1.80	7.82	9.62	1,080	3,030	4,110	504	4,614	10,100
	1/16/2025	5-5.5'	<0.050	<0.050	4.90	26.7	31.6	1,720	4,170	5,890	730	6,620	6,530
	1/16/2025	6-6.5'	<0.050	<0.050	3.40	20.5	23.9	1,440	3,800	5,240	681	5,921	3,920
	1/16/2025	7-7.5'	<0.050	<0.050	0.580	3.49	4.07	438	1,860	2,298	330	2,628	4,240
	1/16/2025	8-8.5'	<0.050	<0.050	0.186	0.965	1.15	63.2	581	644.2	71.0	715.2	4,080
	1/16/2025	9-9.5'	<0.050	<0.050	<0.050	0.161	<0.300	<10.0	84.6	84.6	12.4	97	5,200
V-3	1/16/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,520
	1/16/2025	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,800
	1/16/2025	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,560
	1/16/2025	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,080
	1/16/2025	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,040
	1/16/2025	5-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,000
	1/16/2025	6-6.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,960
	1/16/2025	7-7.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,960
	1/16/2025	8-8.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,840
	1/16/2025	9-9.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,680
	1/16/2025	10-10.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,280
	1/16/2025	11-11.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,240
V-4	1/16/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,870
	1/16/2025	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,630
	1/16/2025	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,620
	1/16/2025	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,550
	1/16/2025	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592

**Table 1**  
**Summary of Soil Analytical Data - Delineation Samples**  
**Forehand Ranch 27 State Com #005**  
**Caza Operating, LLC**  
**Eddy 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	MRO (C28-C35)	Total GRO/DRO/MRO	
			(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 >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg
Horizontal Delineation Samples													
H-1	1/16/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-2	1/16/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-3	1/16/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-4	1/16/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

## Notes:

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



Sample Point Excavated

- TPH analyses by EPA Method SW 8015 Mod.
- 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).

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Table 2  
Summary of Soil Analytical Data - Confirmation Samples  
Forehand Ranch 27 State Com #005  
Caza Operating, LLC  
Eddy 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-C-10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO		
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg		10,000 mg/kg
Base Confirmation Samples														
CS-1	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
CS-2	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
CS-3	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
CS-4	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
CS-5	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
CS-6	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	720	
CS-7	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060	
CS-8	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	80	80	<10.0	80	3,440	
CS-9	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	64.5	64.5	<10.0	64.5	5,280	
CS-10	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	45.4	45.4	<10.0	45.4	4,800	
CS-11	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.5	36.5	<10.0	36.5	5,600	
CS-12	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	74	74	<10.0	74	4,400	
CS-13	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	49.3	49.3	<10.0	49.3	4,800	
CS-14	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	28.3	28.3	<10.0	28.3	3,520	
CS-15	3/14/2025	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	46.3	46.3	<10.0	46.3	3,680	
CS-16	3/14/2025	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.6	30.6	<10.0	30.6	4,840	
CS-17	3/14/2025	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	86.2	86.2	<10.0	86.2	4,040	
CS-18	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.4	23.4	<10.0	23.4	3,320	
CS-19	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	37.6	37.6	<10.0	37.6	4,120	
CS-20	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	181	181	38.1	219.1	4,120	
CS-21	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.5	62.5	12.2	74.7	3,560	
CS-22	3/14/2025	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.8	36.8	<10.0	36.8	3,440	
CS-23	3/14/2025	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	67	67	13.2	80.2	4,320	
CS-24	3/14/2025	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	52.4	52.4	<10.0	52.4	4,320	
CS-25	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
CS-26	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
CS-27	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
CS-28	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
CS-29	3/14/2025	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
CS-30	3/14/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	

**Table 2**  
**Summary of Soil Analytical Data - Confirmation Samples**  
**Forehand Ranch 27 State Com #005**  
**Caza Operating, LLC**  
**Eddy County, New Mexico**

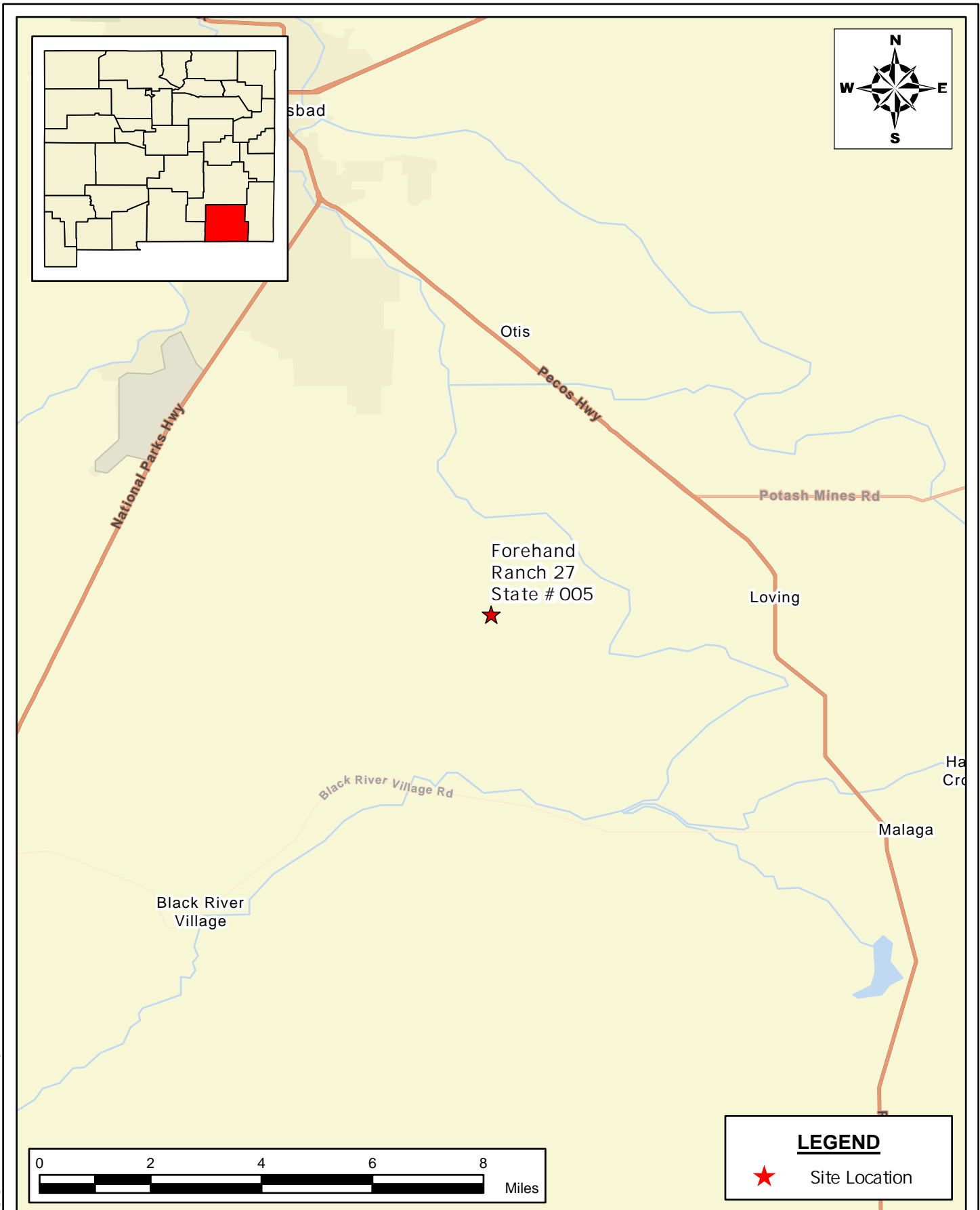
Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg
Sidewall Confirmation Samples													
SW-1	3/14/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW-2	3/14/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW-3	3/14/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW-4	3/14/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW-5	3/14/2025	0-8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW-6	3/14/2025	4-8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW-7	3/14/2025	0-8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64

## 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**



Document Path: C:\Users\ntgis\Desktop\Geodatabase\Figure\_1\_SLMMap\_04012025.aprx

**SITE LOCATION MAP**  
**INCIDENT CLOSURE REPORT**  
**CAZA OPERATING, LLC**  
 FOREHAND RANCH 27 STATE #005  
 EDDY COUNTY, NEW MEXICO  
 32.2818832,-104.1749268

SCALE: As Shown    Date: 4/1/2025    PROJECT #: 248972

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



**NOTES:**

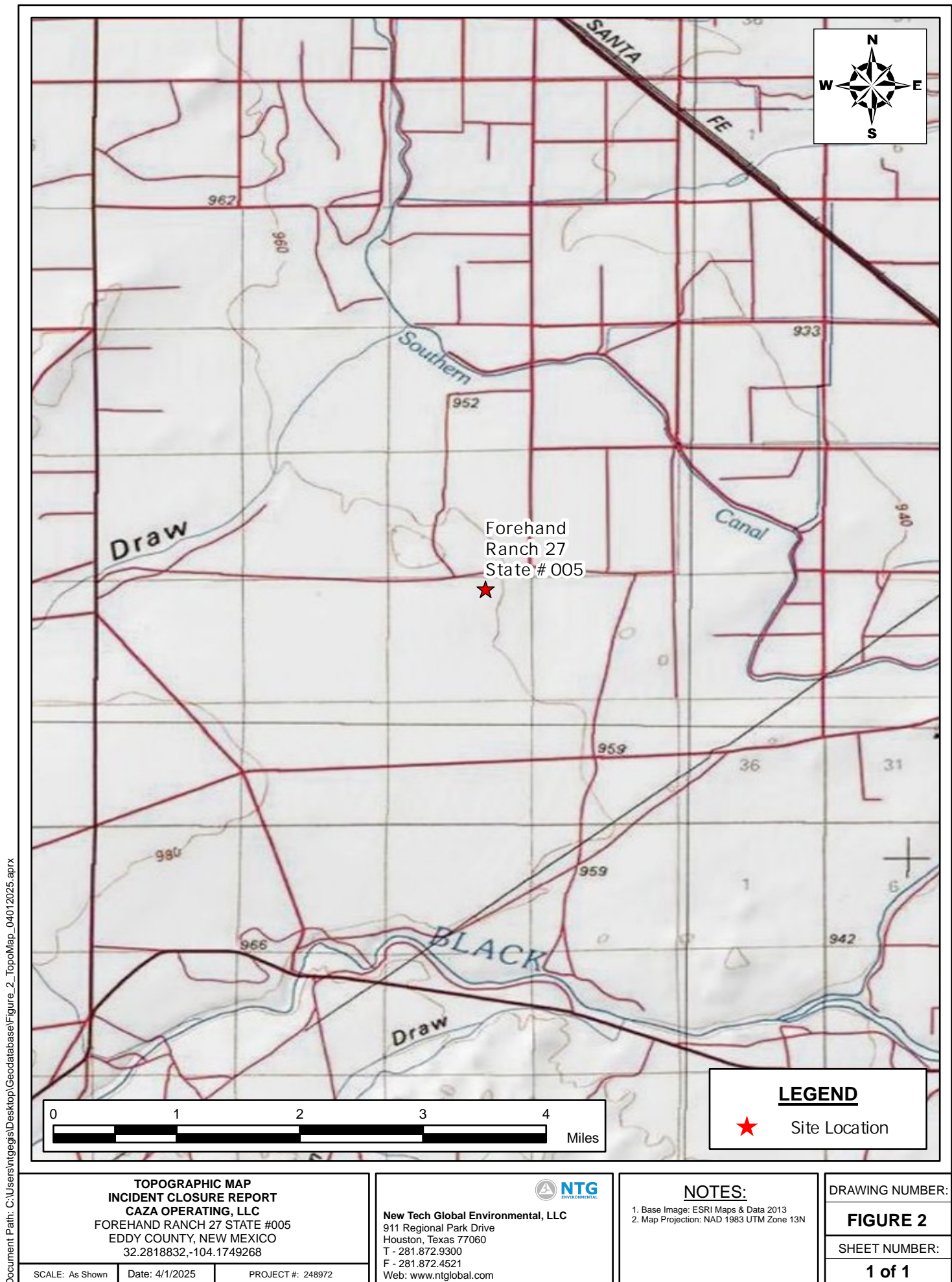
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

**FIGURE 1**

SHEET NUMBER:

**1 of 1**



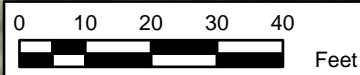
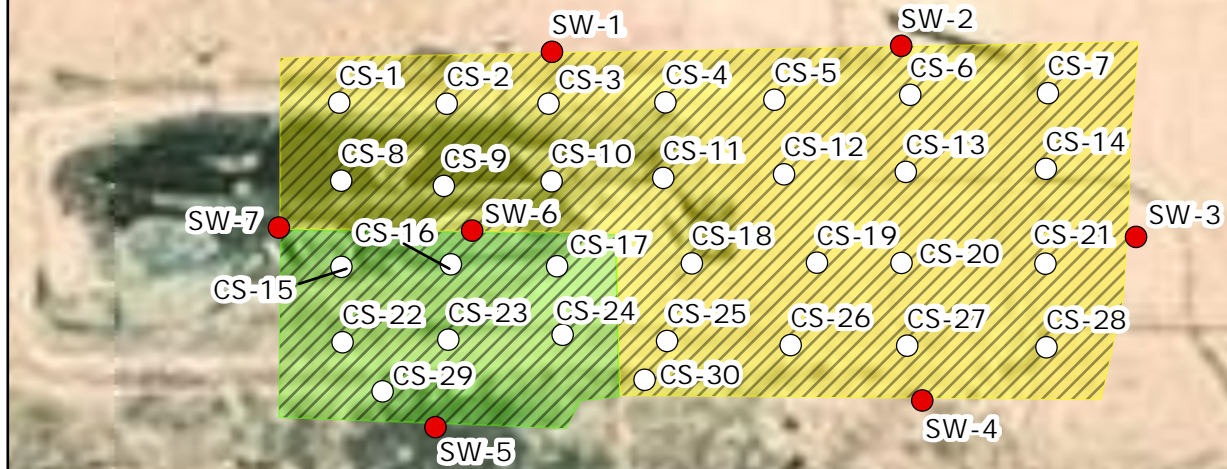


Document Path: C:\Users\ntgis\Desktop\Geodatabase\Figure\_3\_DelineationSampleMap\_04012025.aprx



<p><b>DELINEATION SAMPLE MAP INCIDENT CLOSURE REPORT CAZA OPERATING, LLC</b> FOREHAND RANCH 27 STATE #005 EDDY COUNTY, NEW MEXICO 32.2818832, -104.1749268</p>	<p><b>New Tech Global Environmental, LLC</b> 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntglobal.com</p>	<p><b>NOTES:</b> 1. Base Image: ESRI Maps &amp; Data 2013 2. Map Projection: NAD 1983 UTM Zone 13N</p>	<p>DRAWING NUMBER: <b>FIGURE 3</b> SHEET NUMBER: <b>1 of 1</b></p>
SCALE: As Shown	Date: 4/1/2025	PROJECT #: 248972	





#### LEGEND

- Bottom Hole Confirmation Sample
- Sidewall Confirmation Sample
- ▨ 4 ft Excavation
- ▨ 8 ft Excavation

**CONFIRMATION SAMPLE MAP  
INCIDENT CLOSURE REPORT**  
**CAZA OPERATING, LLC**  
 FOREHAND RANCH 27 STATE #005  
 EDDY COUNTY, NEW MEXICO  
 32.2818832, -104.1749268

SCALE: As Shown

Date: 4/2/2025

PROJECT #: 248972



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#### NOTES:

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

DRAWING NUMBER:

**FIGURE 4**

SHEET NUMBER:

**1 of 1**

**Site Characterization Information**



# OSE POD Location Map

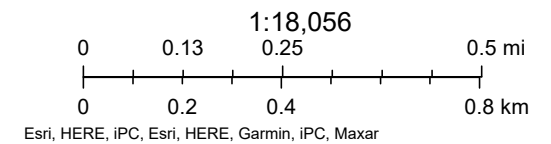


7/31/2024, 10:13:08 AM

- Override 1
- Pending
- Active
- OSE District Boundary

GIS WATERS PODs

- Both Estates
- Conveyances
- Ditch



Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE  
quarters are smallest to largest

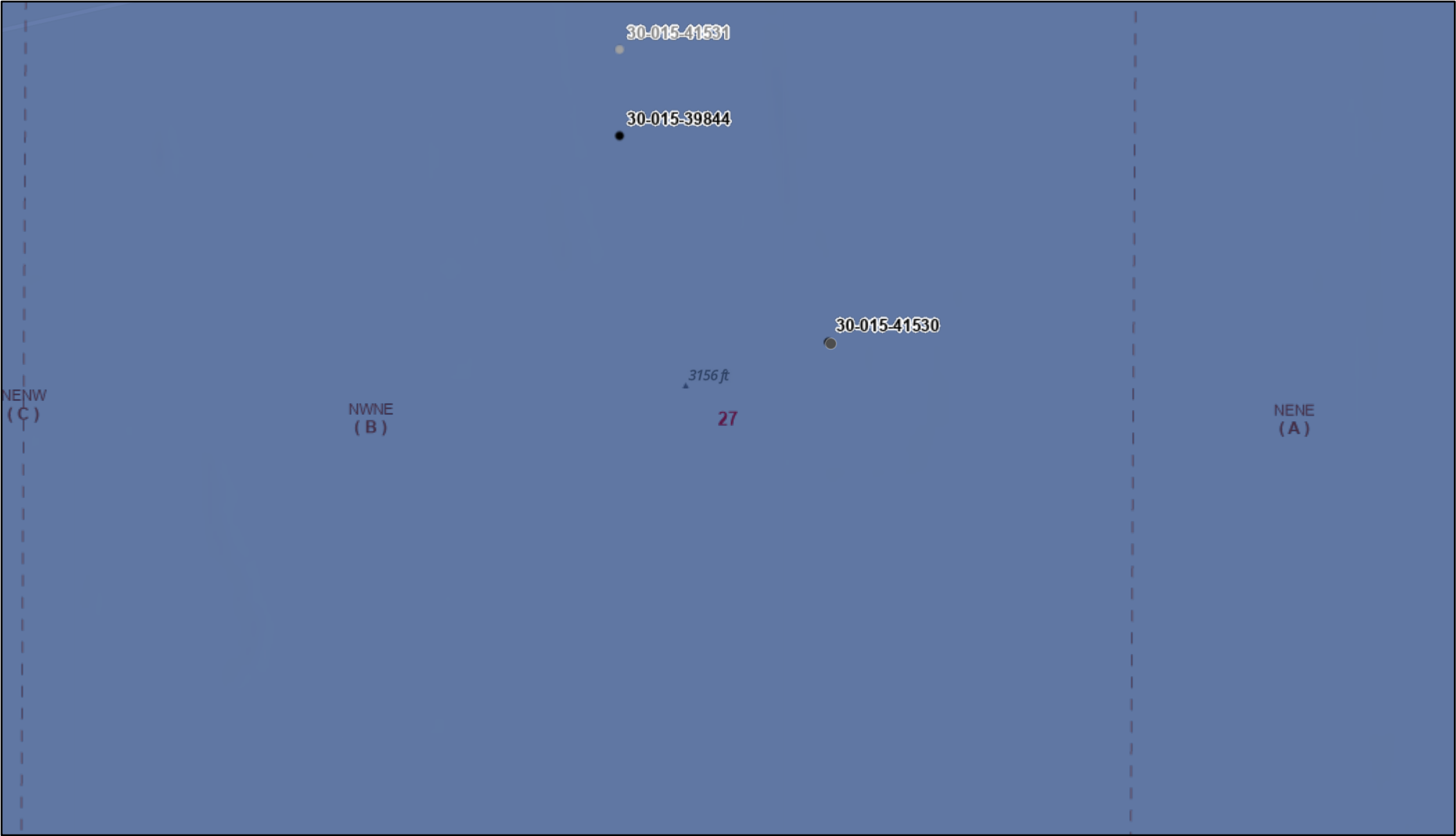
NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 00518 POD2	NE	SE	SE	22	23S	27E	578105.0	3572431.0 *	

\* UTM location was derived from PLSS - see Help

Driller License:	24	Driller Company:	BRININSTOOL, M.D.
Driller Name:	BRININSTOOL, M.D.		
Drill Start Date:	2006-03-15	Drill Finish Date:	2006-06-14
Log File Date:	2008-08-31	PCW Rcv Date:	2008-08-31
Pump Type:		Pipe Discharge Size:	Estimated Yield: 500
Casing Size:	12.00	Depth Well:	220
		Depth Water:	98

# OCD Well Locations



7/31/2024, 10:19:18 AM

Wells - Large Scale
Karst Occurrence Potential

PLSS First Division

●

Oil, Active

■

High

●

Oil, Cancelled

---

PLSS Second Division

0
0.01
0.03
0.06 mi

0
0.03
0.05
0.1 km

BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS





## Wetlands



September 4, 2024

## Wetlands

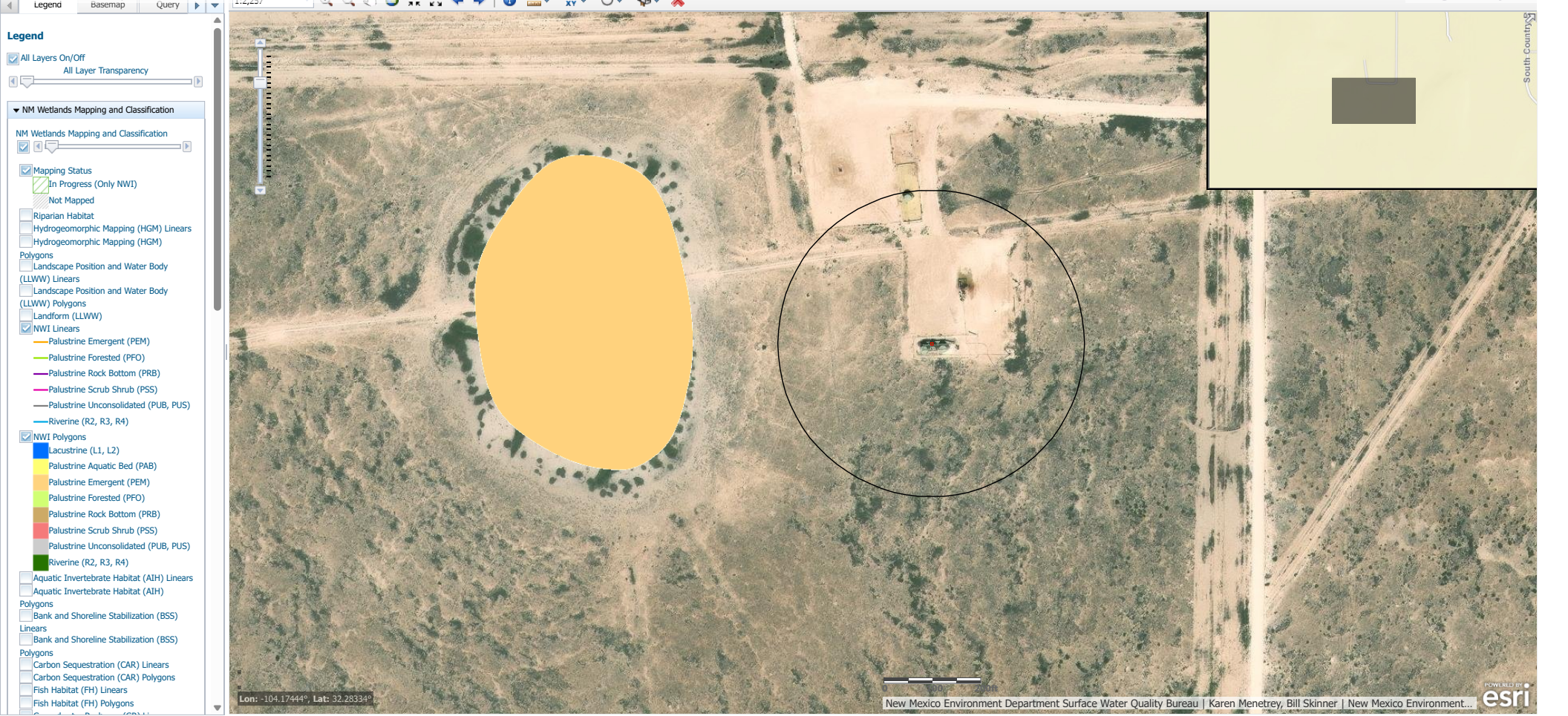
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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 FIRMMette



104°10'48"W 32°17'10"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°10'11"W 32°16'40"N

Released to Imaging: 8/14/2025 1:33:02 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
		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



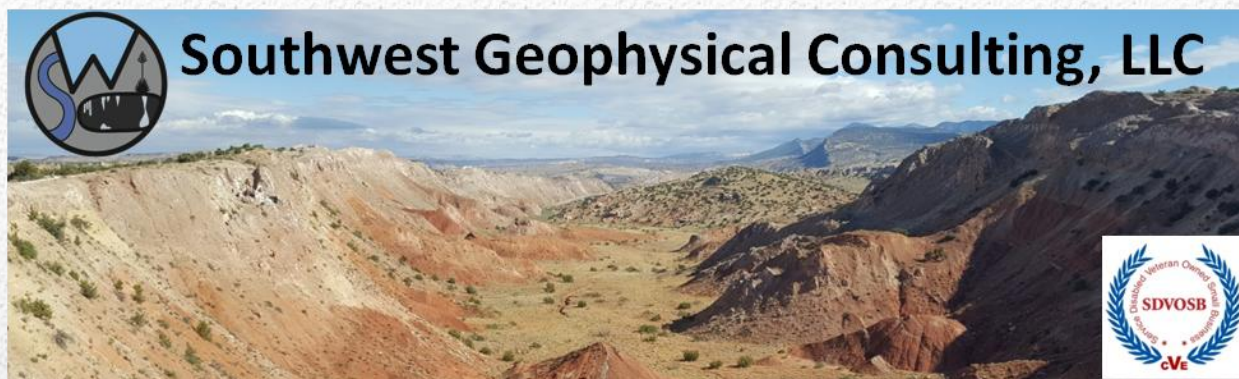
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 7/31/2024 at 12:20 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.





# **Environmental Karst Study Report Forehand Ranch 27 State Com 001H & 005H Eddy County, New Mexico**

**Prepared For:  
NTG Environmental  
209 West McKay Street  
Carlsbad, NM 88220**

- ☐ Positive within 200 feet of spill delineation boundary
- ☒ Negative within 200 feet of spill delineation boundary
- ☒ Stable ☐ Unstable Ground
- ☐ Karst Monitor Recommended

**February 28, 2025**

NTGE-002-20250115

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**MMXXV**

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## 1.0 INTRODUCTION

This report was commissioned by NTG Environmental (hereinafter referred to as "the client"), on January 15, 2025, for the purpose of conducting an environmental karst study within an area encompassing the Forehand Ranch 27 State Com 001H and 005H release sites (hereinafter termed "FR2701") centered at N 32.282061° W 104.175055°.

### 1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC<sup>[1]</sup>), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions<sup>[2]</sup>) within the spill boundary of the Forehand Ranch 27 State Com 001H and 005H releases using electrical resistivity imaging<sup>[3]</sup>.

### 1.2 Summary of Findings

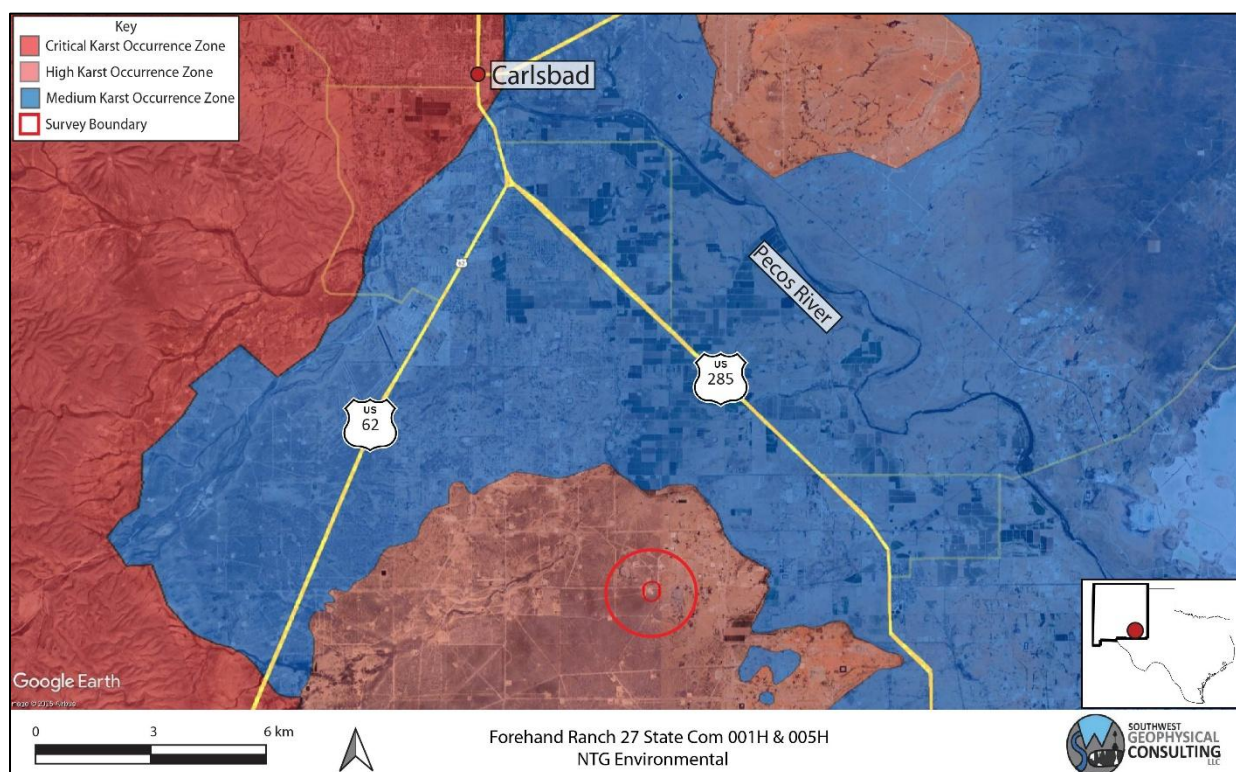
- **No surface karst features exist within the 200-foot (61-meter) perimeter of the spill delineation boundary.**
- Three surface karst features lie within the 200-meter survey boundary.
- **No anomalies consistent with subsurface air- or water-filled voids were found within the FR2701 resistivity survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Flat-lying stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted indicating stable ground.**

### 1.3 Affected Environment

The FR2701 project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Additionally, karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers<sup>[4]</sup>. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone<sup>[5]</sup> (**Figure 1**).



**Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: August 21, 2024. Image datum: WGS-84.**

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat<sup>[4]</sup>.

**Due to the rapidity with which evaporite karst develops, each location within a CKOZ or HKOZ must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.**

### **1.4 Limitations of Report**

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of NTG Environmental in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results in the field should be conducted prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond three years past the date of the field work provided in section **2.3 Description of Survey**. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.



## 2.0 LOCATION AND DESCRIPTION OF STUDY AREA

### 2.1 Description of Site

The site is located 15.9 kilometers (9.9 miles) south-southeast of Carlsbad, New Mexico, north of Bounds Road and west of U.S. 285. The release site is located within the NE  $\frac{1}{4}$  section of section 27, NM T23S R27E<sup>[6]</sup> (**Figure 1** and **Figure 2**). The region has flat-lying terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock<sup>[7]</sup> (see section **2.2 Local Geology Summary** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January<sup>[8]</sup>. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map<sup>[9]</sup> and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an HKOZ<sup>[5]</sup> (**Figure 1**) and within NMSLO managed land<sup>[10]</sup> (**Figure 2**).

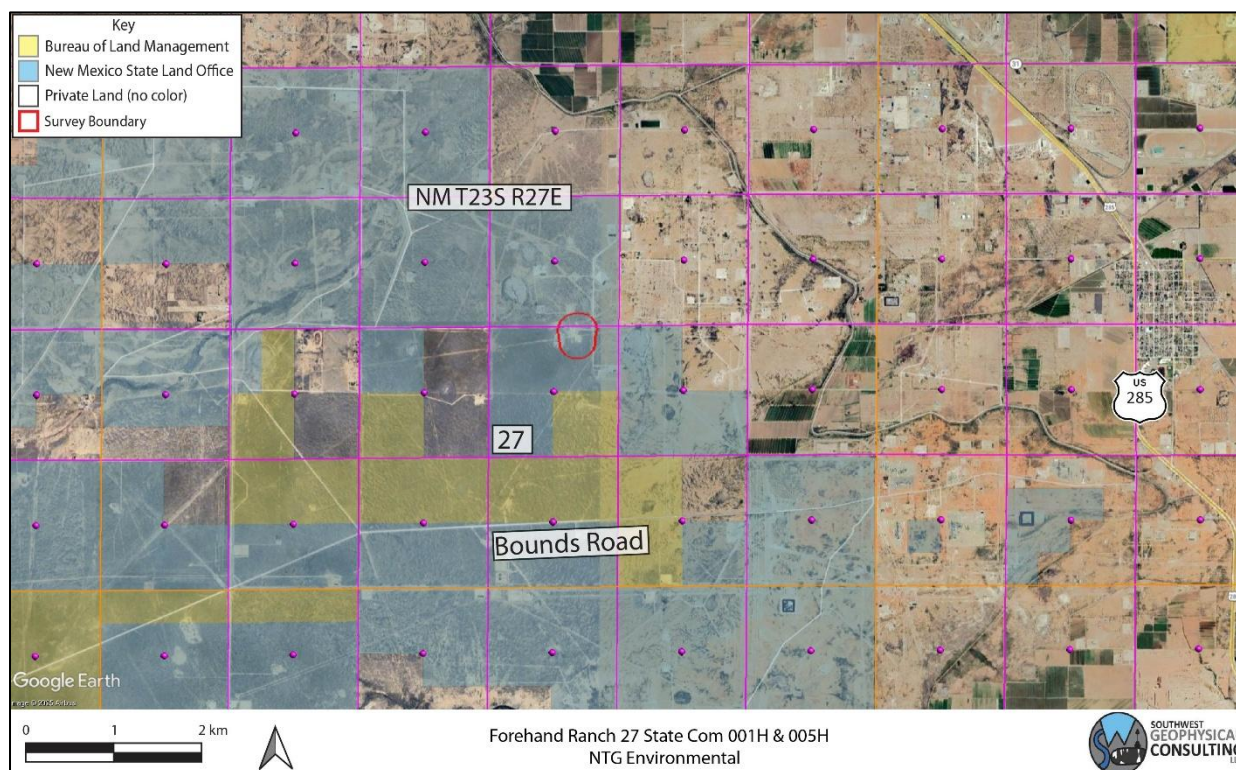


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.



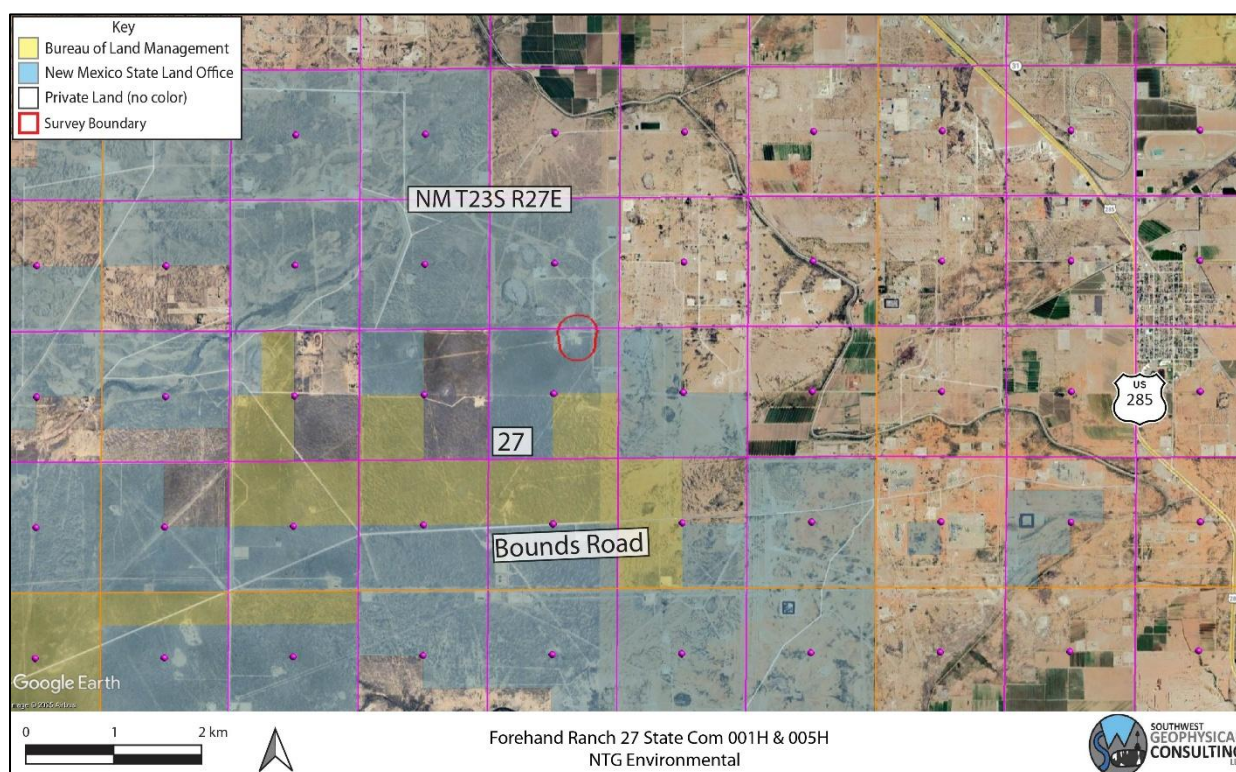
## 2.2 Local Geology Summary

The site for the FR2701 survey is located at an elevation of 962 meters (3,156 feet),  $\pm$  2 meters (6.6 feet), and is located within a region underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvium (Qal), and piedmont gravels (Qp)<sup>[11]</sup> up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)<sup>[12]</sup>.

The Pru overlies the Permian Salado Formation (Psl), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface<sup>[12]</sup>. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation<sup>[13]</sup>.

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale<sup>[11]</sup> and the Digital Geologic Map of New Mexico in ARC/INFO Format<sup>[14]</sup>.



**Figure 3: Geology overview.** Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format.  
Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

## 2.3 Description of Survey

### 2.3.1 Surface Karst Inventory

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides aerial karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The aerial karst survey includes a surface karst desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance<sup>[1]</sup> (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated March 20, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated December 23, 2024<sup>[15]</sup>; the Otis, NM, 1:24,000 quad, 1985, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned one surface karst feature within the 200-meter survey boundary. This feature can be identified by the feature ID date earlier than the others in **Table 3**.

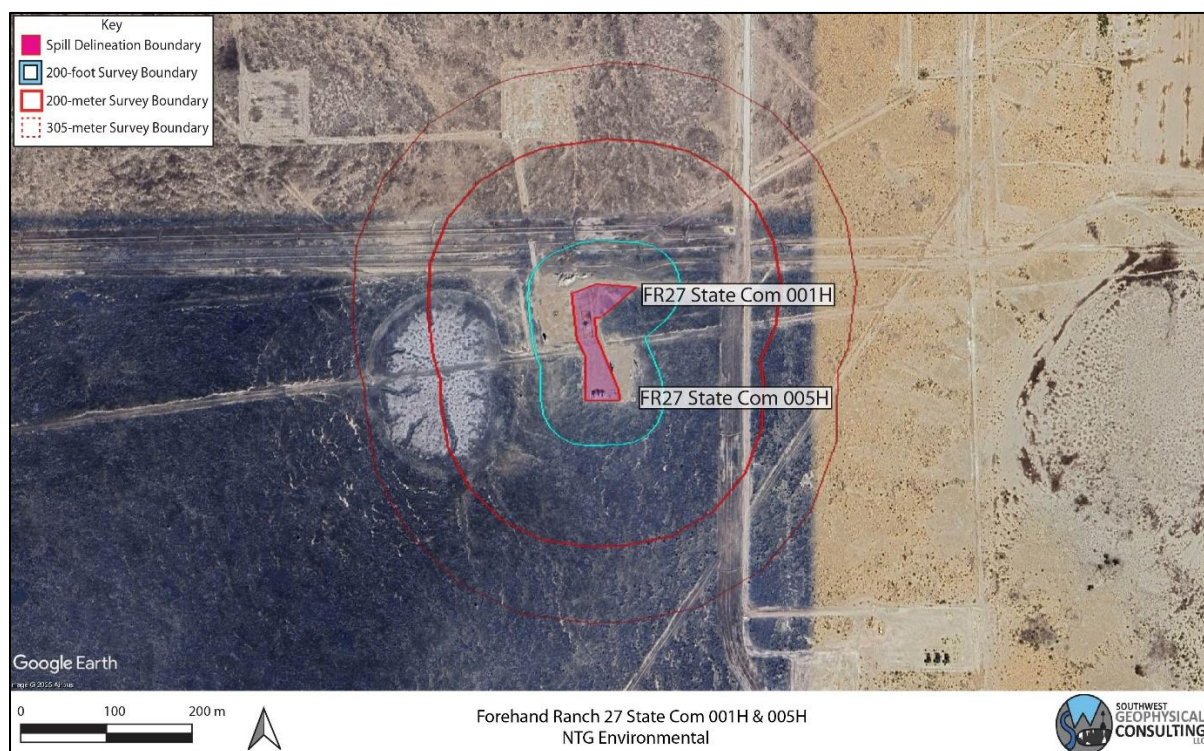


Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: January 27, 2023. Datum: WGS-84.

Aerial karst surveys are conducted at low elevation within 200 meters of the spill delineation boundary<sup>[4]</sup> (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report<sup>[16]</sup>.

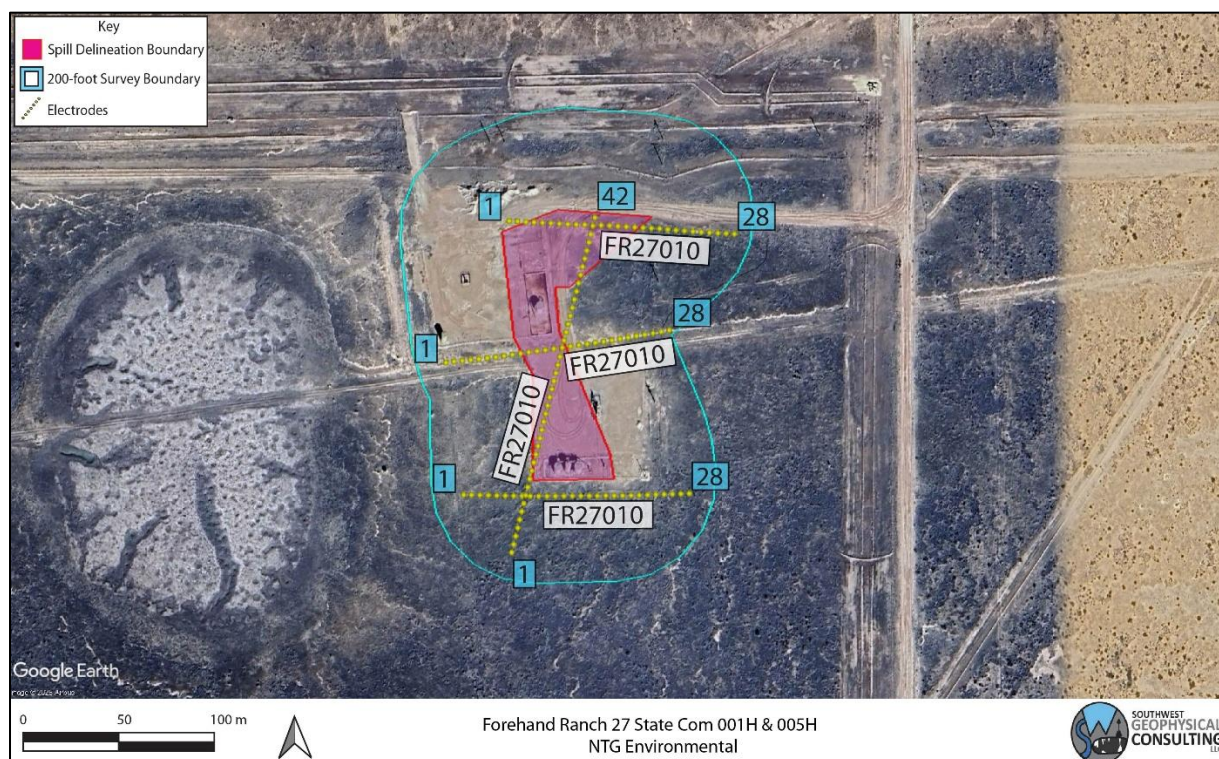
The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on January 24, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Dave Decker of Southwest Geophysical Consulting on January 27, 2025.



### 2.3.2 Geophysical Survey

For this survey, an Advanced Geosciences Inc. (AGI) SuperSting™ Wifi R8 with a multi-electrode switchbox, a 56-electrode array of 40-centimeter-long electrodes, and a tablet controller were used to image the subsurface. This survey consisted of four resistivity lines in a dipole-dipole configuration: FR270101 was laid out south to north and consisted of 42 electrodes at 5-meter spacing resulting in a 205-meter-long array; lines FR270102, FR270103, and FR270104 were laid out west to east and each consisted of 28 electrodes at 5-meter spacing, resulting in 135-meter-long arrays (**Figure 5, Table 1**). Two preconfigured command files were used to run the data collection (DiDi42 and DiDi28). The 42-electrode configuration provided a depth of investigation of 41 meters (135 feet) while the 28-electrode configuration provided a depth of investigation of 27 meters (89 feet). Both have a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.



**Figure 5: Geophysical survey overview.** One survey line was conducted with 42 electrodes at 5-meter spacing and three survey lines were conducted with 28 electrodes each at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: January 27, 2023. Image datum: WGS-84.

**Table 1** provides basic line data. Detailed information for each line including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

**Table 1: Survey Line Data Table.** The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files FR2701\_ERI\_Points.xlsx and NTGE-002-20250115\_FR2701\_Data\_Files.kmz.

File Name:	Completed By:	Date:
FR270101.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Steven Kesler – Field Geologist	1/28/2025
FR270102.kmz		
FR270103.kmz		
FR270104.kmz		

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of “stable” or “unstable” ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was “average apparent resistivity” and a default inversion setting of “surface,” with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or  $\Omega$ -m) and a max apparent resistivity set to 100,000  $\Omega$ -m (**Table 2**).

**Table 2: Software Information and Settings**

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 k $\Omega$ -m Min Apparent Resistivity = 0.1 $\Omega$ -m

**Note:** Raw data files (.stg files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .stg files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Steven Kesler on January 27, 2025.



### 3.0 RESULTS

#### 3.1 Surface Karst Survey

The desk study and surface karst survey showed no existing surface karst features within the 200-foot (61-meter)<sup>[1]</sup> survey boundary.

Three recognized surface karst features are located within the 200-meter survey boundary but outside of the 200-foot (61-meter) survey boundary (**Figure 6, Table 3**). Recognized surface karst features are features that are positively identified in either satellite or aerial imagery as karst features and the features have been visited by a qualified karst professional in the field and fully identified. Images for the features are available on request.

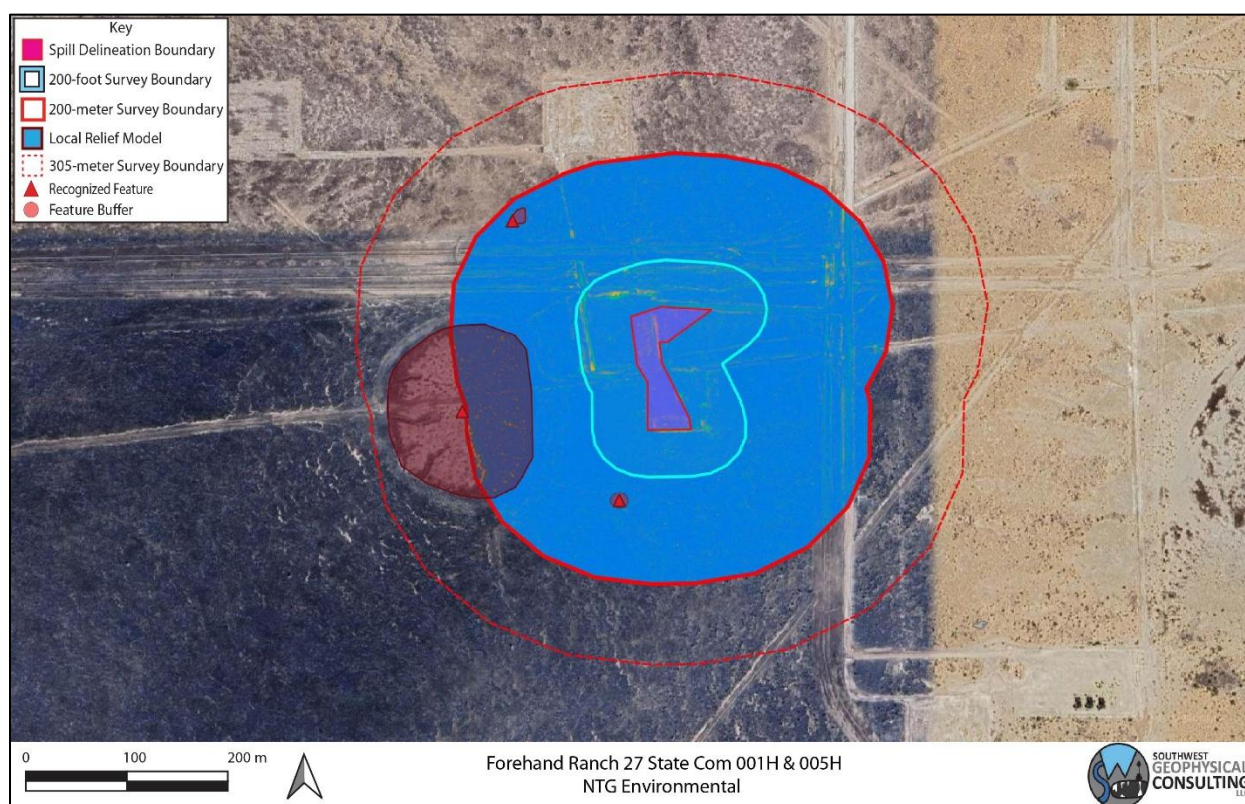


Figure 6: Aerial karst survey results. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

No springs exist within the 1,000-foot (305-meter)<sup>[1]</sup> survey boundary.

Caution should be exercised while operating in or around all karst-related features due to the possibility of near-surface voids. Employing a BLM-CFO approved karst monitor on site during these activities should be considered.

**Table 3** contains a list of features identified during the aerial karst survey and subsequent imagery analysis. Each feature is identified with a feature identification number (Feature ID), the type of feature, estimated size (in meters), recommended buffer (in meters), the likelihood of this feature being a surface karst feature (modifiers H/M for high or medium likelihood, V for field verified), and its location in WGS-84/UTM-13 (EPSG: 32613).

**Table 3: Surface Karst Feature Data Table**

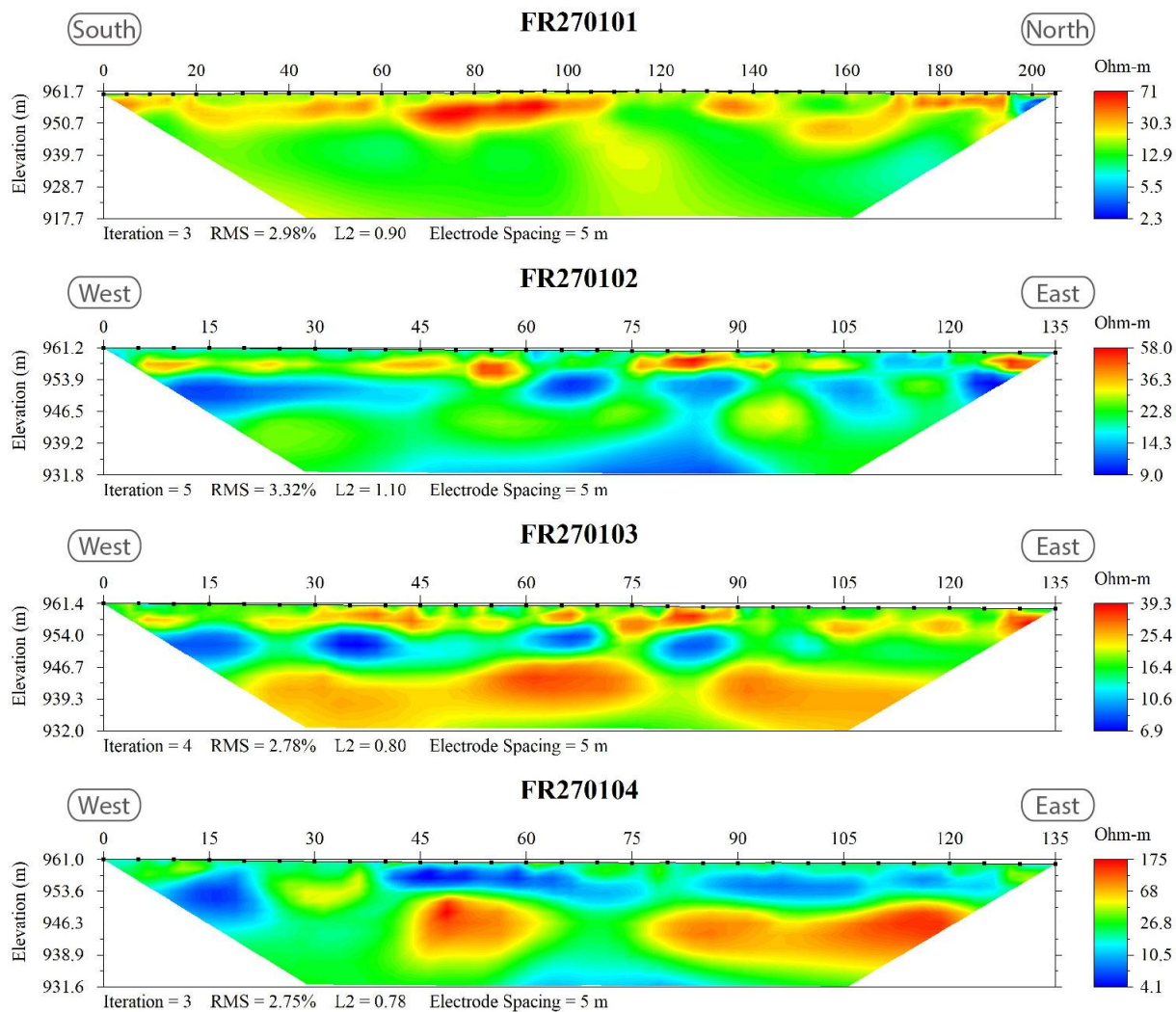
KF Status	Feature ID	Type	Size (m)	Buffer (m)	Mod	Easting	Northing
RKF	250115-D01	Suffosion sinkhole cluster	219	10	V	577463.086	3571953.325
RKF	250127-D01	Suffosion sinkhole cluster	21	10	V	577516.572	3572201.560
RKF	250127-D02	Suffosion sinkhole	0.6	10	V	577637.363	3571839.254

NOTE: Location data provided in WGS-84/UTM 13N. RKF – recognized karst feature.

### 3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a moderately well-layered geologic system with resistivities between 2.3 and 175 Ohm-m (**Figure 7**). No unusual anomalies are noted. Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.



**Figure 7: 2D inverted resistivity sections.** Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative and that the 2D inverted resistivity profile for line FR270101 is 205 meters long in comparison to the other three lines at only 135 meters.

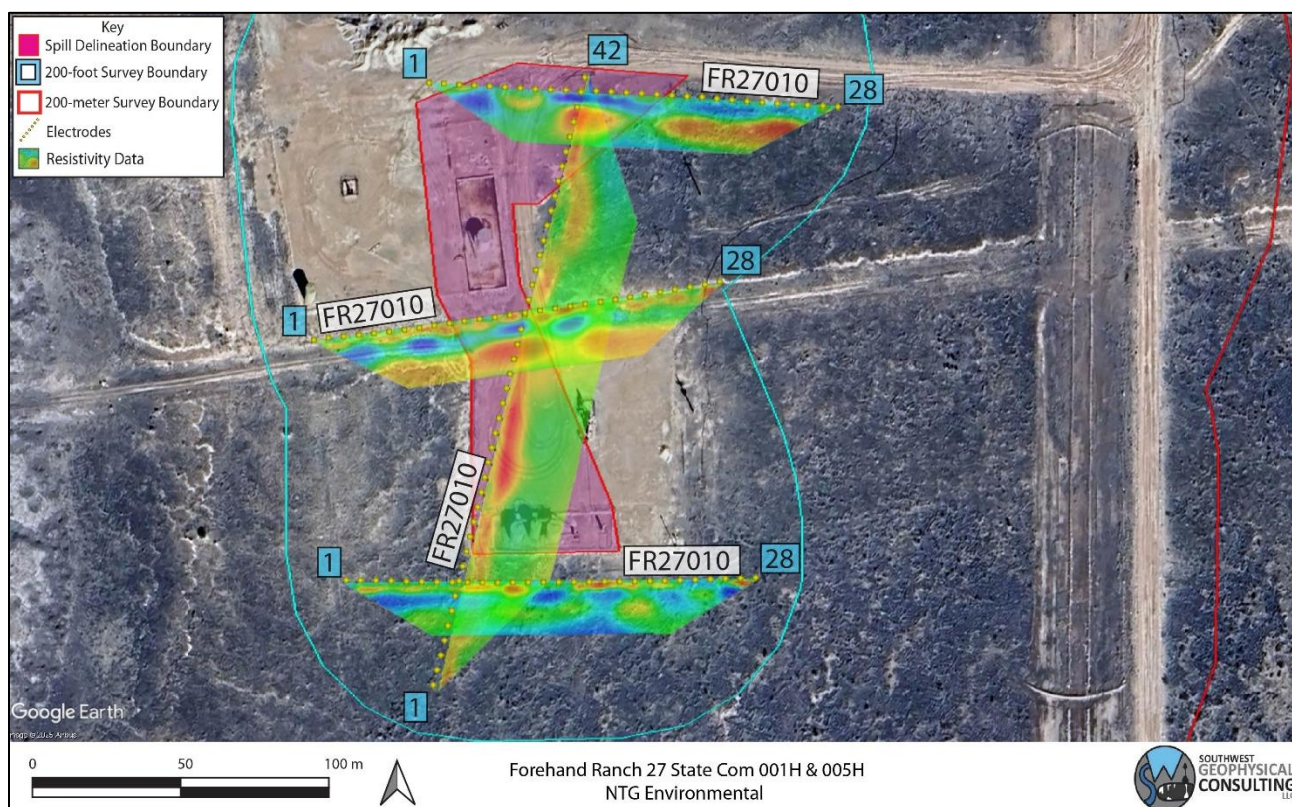


#### 4.0 DISCUSSION

No anomalies consistent with air-filled subsurface voids are found within the FR2701 survey area. However, small solutionally enlarged voids or fractures at or near the resolution limit of the survey (1.5 – 2.0 meters) may be present. Slightly higher-than-average resistivity areas less than 10 meters beneath the surface are interpreted as caliche or gypsite soils. Due to their relatively low resistivity values when compared with significant subsurface voids, these features should not be a concern during remediation efforts<sup>[17]</sup> (**Figure 7** and **Figure 8**).

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5 – 3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.



**Figure 8: Data overlay.** Colored trapezoids are 2D inverted resistivity lines. Background image credit: Google Earth. Image date: January 27, 2023.

## 5.0 SUMMARY

- **The FR2701 survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the survey area.**
- Three surface karst features exist within the 200-meter survey boundary, indicating that the area is karstified.
- Intercepting a small void below the resolution limit of the survey during remediation is possible.
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

## 6.0 DISCLOSURE STATEMENT

High karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to:

BLM-CFO: [blm\\_nm\\_karst@blm.gov](mailto:blm_nm_karst@blm.gov)

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

## 7.0 REFERENCES

- 1 Division, O. C. *Title 19, Chapter 15, Part 29* (Oil Conservation Division, 2018).
- 2 NMSLO. (ed Oil Conservation Division) (New Mexico State Land Office, Santa Fe, NM, 2018).
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- 8 W.R.C.C. *National Climate Data Center 1981-2010 Normal Climate Summary for Carlsbad, New Mexico (291469)*, 2010).
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- 10 NMSLO. Digital overlay (KML) of the surface land ownership in New Mexico (New Mexico State Land Office, Santa Fe, NM, 2024).
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- 12 Austin, G. S. *Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas*. Vol. Circular 159 (New Mexico Bureau of Mines and Mineral Resources, 1978).
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- 14 Green, G. N. & Jones, G. E. *The Digital Geologic Map of New Mexico in ARC/INFO Format*, <<https://mrdata.usgs.gov/geology/state/state.php?state=NM>> (1997).
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- 17 Hill, C. A. *Geology of the Delaware Basin, Guadalupe, Apache and Glass Mountains, New Mexico and West Texas*. Vol. 96-39 (Permian Basin Section - SEPM, 1996).



**8.0 GLOSSARY OF TERMS**

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated $\Omega$ -m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation

PdI	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

## 9.0 ATTESTATION

### David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist

Southwest Geophysical Consulting, LLC

5117 Fairfax Dr. NW

Albuquerque, NM 87114

[dave@swgeophys.com](mailto:dave@swgeophys.com)

(505) 585-2550

## CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number NTGE-002-20250115 entitled, “Environmental Karst Study Report, Forehand Ranch 27 State Com 001H & 005H, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section **2.3 Description of Survey**.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, March 4, 2025.



David D. Decker

PhD, CPG-12123



**Photographic Log**



**PHOTOGRAPHIC LOG**  
**Caza Operating LLC**  
**Forehand Ranch 27 State #005**

**Photograph No. 1**

**Facility:** Forehand Ranch 27 State #005

**County:** Eddy County, New Mexico

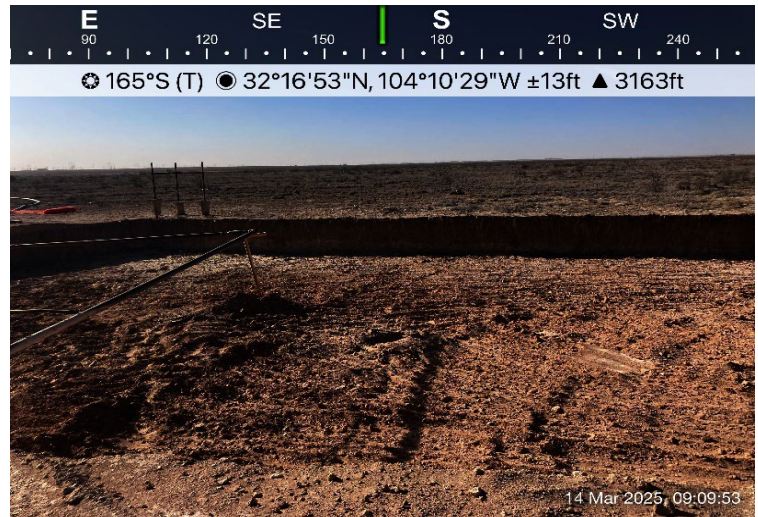
**Description:**  
Confirmation Sampling Event

**Photograph No. 2**

**Facility:** Forehand Ranch 27 State #005

**County:** Eddy County, New Mexico

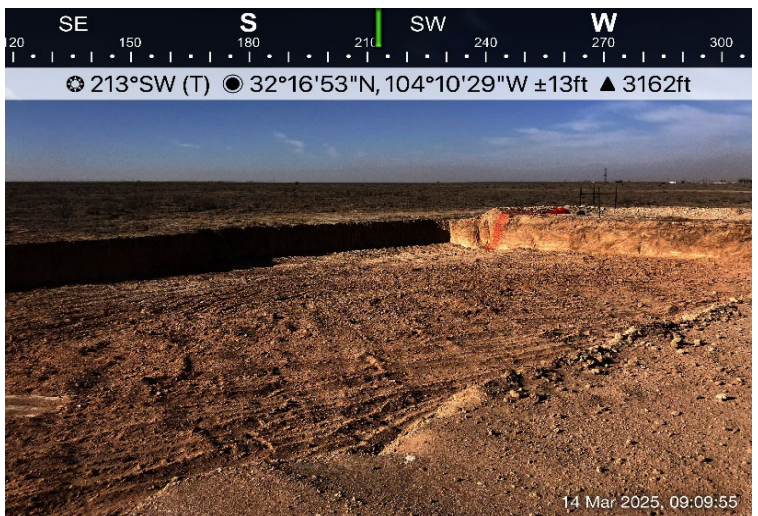
**Description:**  
Confirmation Sampling Event

**Photograph No. 3**

**Facility:** Forehand Ranch 27 State #005

**County:** Eddy County, New Mexico

**Description:**  
Confirmation Sampling Event





**PHOTOGRAPHIC LOG**  
**Caza Operating LLC**  
**Forehand Ranch 27 State #005**

**Photograph No. 4**

**Facility:** Forehand Ranch 27 State #005

**County:** Eddy County, New Mexico

**Description:**  
Confirmation Sampling Event

**Photograph No. 5**

**Facility:** Forehand Ranch 27 State #005

**County:** Eddy County, New Mexico

**Description:**  
Confirmation Sampling Event

**Photograph No. 6**

**Facility:** Forehand Ranch 27 State #005

**County:** Eddy County, New Mexico

**Description:**  
Confirmation Sampling Event



**Laboratory Reports and Chain-of-Custody**



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

January 21, 2025

KELLAN SMITH

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: FOREHAND RANCH 27 STATE COM #005

Enclosed are the results of analyses for samples received by the laboratory on 01/17/25 13:51.

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 "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 1 0-0.5' (H250293-01)**

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	01/20/2025	ND	1.87	93.3	2.00	2.90	
Toluene*	<0.050	0.050	01/20/2025	ND	2.04	102	2.00	2.83	
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.00	100	2.00	3.15	
Total Xylenes*	<0.150	0.150	01/20/2025	ND	5.88	97.9	6.00	3.23	
Total BTEX	<0.300	0.300	01/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	304	16.0	01/21/2025	ND	448	112	400	3.51	

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	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.2 % 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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 1 1-1.5' (H250293-02)**

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	01/20/2025	ND	1.87	93.3	2.00	2.90		
Toluene*	<0.050	0.050	01/20/2025	ND	2.04	102	2.00	2.83		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.00	100	2.00	3.15		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	5.88	97.9	6.00	3.23		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	01/21/2025	ND	448	112	400	3.51		

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	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 1 2-2.5' (H250293-03)**

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	01/20/2025	ND	1.87	93.3	2.00	2.90		
Toluene*	<0.050	0.050	01/20/2025	ND	2.04	102	2.00	2.83		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.00	100	2.00	3.15		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	5.88	97.9	6.00	3.23		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	528	16.0	01/21/2025	ND	448	112	400	3.51		

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	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 1 3-3.5' (H250293-04)**

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	01/20/2025	ND	1.87	93.3	2.00	2.90	
Toluene*	<0.050	0.050	01/20/2025	ND	2.04	102	2.00	2.83	
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.00	100	2.00	3.15	
Total Xylenes*	<0.150	0.150	01/20/2025	ND	5.88	97.9	6.00	3.23	
Total BTEX	<0.300	0.300	01/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	496	16.0	01/21/2025	ND	448	112	400	3.51		

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	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 1 4-4.5' (H250293-05)**

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	01/20/2025	ND	1.87	93.3	2.00	2.90		
Toluene*	<0.050	0.050	01/20/2025	ND	2.04	102	2.00	2.83		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.00	100	2.00	3.15		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	5.88	97.9	6.00	3.23		
Total BTX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	320	16.0	01/21/2025	ND	448	112	400	3.51		

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	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 2 0-0.5' (H250293-06)**

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	01/20/2025	ND	1.87	93.3	2.00	2.90		
Toluene*	<0.050	0.050	01/20/2025	ND	2.04	102	2.00	2.83		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.00	100	2.00	3.15		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	5.88	97.9	6.00	3.23		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	3480	16.0	01/21/2025	ND	448	112	400	3.51		

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	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 2 1-1.5' (H250293-07)**

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	01/20/2025	ND	1.87	93.3	2.00	2.90		
Toluene*	<0.050	0.050	01/20/2025	ND	2.04	102	2.00	2.83		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.00	100	2.00	3.15		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	5.88	97.9	6.00	3.23		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	2160	16.0	01/21/2025	ND	448	112	400	3.51		

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	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 2 2-2.5' (H250293-08)**

BTX 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	01/20/2025	ND	1.87	93.3	2.00	2.90	
Toluene*	<0.050	0.050	01/20/2025	ND	2.04	102	2.00	2.83	GC-NC
Ethylbenzene*	0.423	0.050	01/20/2025	ND	2.00	100	2.00	3.15	GC-NC1
Total Xylenes*	0.538	0.150	01/20/2025	ND	5.88	97.9	6.00	3.23	GC-NC1
Total BTX	0.961	0.300	01/20/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 231 % 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	<b>3480</b>	16.0	01/21/2025	ND	448	112	400	3.51	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>29.8</b>	10.0	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	<b>284</b>	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	<b>50.3</b>	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 104 % 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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 2 3-3.5' (H250293-09)**

BTX 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	01/20/2025	ND	1.87	93.3	2.00	2.90	GC-NC
Toluene*	<0.050	0.050	01/20/2025	ND	2.04	102	2.00	2.83	GC-NC
Ethylbenzene*	1.88	0.050	01/20/2025	ND	2.00	100	2.00	3.15	GC-NC1
Total Xylenes*	6.28	0.150	01/20/2025	ND	5.88	97.9	6.00	3.23	GC-NC1
Total BTX	8.16	0.300	01/20/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 462 % 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	7460	16.0	01/21/2025	ND	448	112	400	3.51	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	312	10.0	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	1170	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	213	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 2 4-4.5' (H250293-10)**

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	01/20/2025	ND	2.03	102	2.00	2.52	GC-NC
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50	GC-NC, QM-07
Ethylbenzene*	<b>1.80</b>	0.050	01/20/2025	ND	2.33	116	2.00	1.45	GC-NC1, QM-07
Total Xylenes*	<b>7.82</b>	0.150	01/20/2025	ND	7.08	118	6.00	1.65	GC-NC1
Total BTEX	<b>9.62</b>	0.300	01/20/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 153 % 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	<b>10100</b>	16.0	01/21/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>1080</b>	10.0	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	<b>3030</b>	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	<b>504</b>	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 127 % 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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 2 5-5.5' (H250293-11)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/20/2025	ND	2.03	102	2.00	2.52	GC-NC
Toluene*	<0.500	0.500	01/20/2025	ND	2.23	112	2.00	1.50	GC-NC
Ethylbenzene*	4.90	0.500	01/20/2025	ND	2.33	116	2.00	1.45	GC-NC1
Total Xylenes*	26.7	1.50	01/20/2025	ND	7.08	118	6.00	1.65	GC-NC1
Total BTEX	31.6	3.00	01/20/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 166 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	01/21/2025	ND	448	112	400	3.51	

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*	1720	10.0	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	4170	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	730	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 197 % 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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 2 6-6.5' (H250293-12)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/20/2025	ND	2.03	102	2.00	2.52	GC-NC
Toluene*	<0.500	0.500	01/20/2025	ND	2.23	112	2.00	1.50	GC-NC
Ethylbenzene*	3.40	0.500	01/20/2025	ND	2.33	116	2.00	1.45	GC-NC1
Total Xylenes*	20.5	1.50	01/20/2025	ND	7.08	118	6.00	1.65	GC-NC1
Total BTX	23.9	3.00	01/20/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 159 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	01/21/2025	ND	448	112	400	3.51	

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*	1440	10.0	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	3800	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	681	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 189 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 2 7-7.5' (H250293-13)**

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	01/20/2025	ND	2.03	102	2.00	2.52	
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50	GC-NC
Ethylbenzene*	<b>0.580</b>	0.050	01/20/2025	ND	2.33	116	2.00	1.45	GC-NC1
Total Xylenes*	<b>3.49</b>	0.150	01/20/2025	ND	7.08	118	6.00	1.65	GC-NC1
Total BTEX	<b>4.07</b>	0.300	01/20/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 218 % 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	<b>4240</b>	16.0	01/21/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>438</b>	10.0	01/20/2025	ND	232	116	200	3.02	
DRO >C10-C28*	<b>1860</b>	10.0	01/20/2025	ND	216	108	200	2.67	
EXT DRO >C28-C36	<b>330</b>	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 2 8-8.5' (H250293-14)**

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	01/20/2025	ND	2.03	102	2.00	2.52	
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50	GC-NC
Ethylbenzene*	<b>0.186</b>	0.050	01/20/2025	ND	2.33	116	2.00	1.45	GC-NC1
Total Xylenes*	<b>0.965</b>	0.150	01/20/2025	ND	7.08	118	6.00	1.65	GC-NC1
Total BTEX	<b>1.15</b>	0.300	01/20/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 171 % 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	<b>4080</b>	16.0	01/21/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>63.2</b>	10.0	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<b>581</b>	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<b>71.0</b>	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 2 9-9.5' (H250293-15)**

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	01/20/2025	ND	2.03	102	2.00	2.52		
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45		
<b>Total Xylenes*</b>	<b>0.161</b>	0.150	01/20/2025	ND	7.08	118	6.00	1.65	GC-NC1	
Total BTEX	<0.300	0.300	01/20/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	
<b>Chloride</b>	<b>5200</b>	16.0	01/21/2025	ND	448	112	400	3.51		

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	01/20/2025	ND	198	99.1	200	1.26		
<b>DRO &gt;C10-C28*</b>	<b>84.6</b>	10.0	01/20/2025	ND	185	92.4	200	2.68		
<b>EXT DRO &gt;C28-C36</b>	<b>12.4</b>	10.0	01/20/2025	ND						

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 0-0.5' (H250293-16)**

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	01/20/2025	ND	2.03	102	2.00	2.52		
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	2520	16.0	01/21/2025	ND	448	112	400	3.51		

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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 1-1.5' (H250293-17)**

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	01/20/2025	ND	2.03	102	2.00	2.52		
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65		
Total BTX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	1800	16.0	01/21/2025	ND	448	112	400	3.51		

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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 2-2.5' (H250293-18)**

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	01/20/2025	ND	2.03	102	2.00	2.52		
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65		
Total BTEx	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8560	16.0	01/21/2025	ND	416	104	400	3.77	QM-07	

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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 3-3.5' (H250293-19)**

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	01/20/2025	ND	2.03	102	2.00	2.52	
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50	
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45	
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65	
Total BTEX	<0.300	0.300	01/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8080	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 4-4.5' (H250293-20)**

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	01/20/2025	ND	2.03	102	2.00	2.52	
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50	
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45	
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65	
Total BTEX	<0.300	0.300	01/20/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 5-5.5' (H250293-21)**

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	01/20/2025	ND	2.03	102	2.00	2.52	
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50	
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45	
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65	
Total BTEX	<0.300	0.300	01/20/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 6-6.5' (H250293-22)**

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	01/20/2025	ND	2.03	102	2.00	2.52	
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50	
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45	
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65	
Total BTEx	<0.300	0.300	01/20/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 7-7.5' (H250293-23)**

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	01/20/2025	ND	2.03	102	2.00	2.52		
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65		
Total BTEx	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3960	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 103 % 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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 8-8.5' (H250293-24)**

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	01/20/2025	ND	2.03	102	2.00	2.52		
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65		
Total BTEx	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V -3 9-9.5' (H250293-25)**

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	01/20/2025	ND	2.03	102	2.00	2.52		
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65		
Total BTX	<0.300	0.300	01/20/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 10-10.5' (H250293-26)**

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	01/20/2025	ND	2.03	102	2.00	2.52		
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65		
Total BTEx	<0.300	0.300	01/20/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4280	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 3 11-11.5' (H250293-27)**

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	01/20/2025	ND	2.03	102	2.00	2.52		
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65		
Total BTEx	<0.300	0.300	01/20/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 4 0-0.5' (H250293-28)**

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	01/20/2025	ND	2.03	102	2.00	2.52		
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65		
Total BTEX	<0.300	0.300	01/20/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1870	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 4 1-1.5' (H250293-29)**

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	01/20/2025	ND	2.03	102	2.00	2.52	
Toluene*	<0.050	0.050	01/20/2025	ND	2.23	112	2.00	1.50	
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.33	116	2.00	1.45	
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.08	118	6.00	1.65	
Total BTEX	<0.300	0.300	01/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 4 2-2.5' (H250293-30)**

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	01/20/2025	ND	2.12	106	2.00	2.23		
Toluene*	<0.050	0.050	01/20/2025	ND	2.15	107	2.00	1.08		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.40	120	2.00	0.501		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.37	123	6.00	0.885		
Total BTX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1620	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 4 3-3.5' (H250293-31)**

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	01/20/2025	ND	2.12	106	2.00	2.23		
Toluene*	<0.050	0.050	01/20/2025	ND	2.15	107	2.00	1.08		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.40	120	2.00	0.501		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.37	123	6.00	0.885		
Total BTX	<0.300	0.300	01/20/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: V - 4 4-4.5' (H250293-32)**

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	01/20/2025	ND	2.12	106	2.00	2.23		
Toluene*	<0.050	0.050	01/20/2025	ND	2.15	107	2.00	1.08		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.40	120	2.00	0.501		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.37	123	6.00	0.885		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: H - 1 0-0.5' (H250293-33)**

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	01/20/2025	ND	2.12	106	2.00	2.23		
Toluene*	<0.050	0.050	01/20/2025	ND	2.15	107	2.00	1.08		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.40	120	2.00	0.501		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.37	123	6.00	0.885		
Total BTEx	<0.300	0.300	01/20/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/21/2025	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	01/20/2025	ND	198	99.1	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	185	92.4	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: H - 2 0-0.5' (H250293-34)**

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	01/20/2025	ND	2.12	106	2.00	2.23		
Toluene*	<0.050	0.050	01/20/2025	ND	2.15	107	2.00	1.08		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.40	120	2.00	0.501		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.37	123	6.00	0.885		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/21/2025	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	01/21/2025	ND	208	104	200	3.63	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	194	97.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: H - 3 0-0.5' (H250293-35)**

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	01/20/2025	ND	2.12	106	2.00	2.23		
Toluene*	<0.050	0.050	01/20/2025	ND	2.15	107	2.00	1.08		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.40	120	2.00	0.501		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.37	123	6.00	0.885		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/21/2025	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	01/21/2025	ND	208	104	200	3.63	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	194	97.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: H - 4 0-0.5' (H250293-36)**

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	01/20/2025	ND	2.12	106	2.00	2.23		
Toluene*	<0.050	0.050	01/20/2025	ND	2.15	107	2.00	1.08		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.40	120	2.00	0.501		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.37	123	6.00	0.885		
Total BTEX	<0.300	0.300	01/20/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	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	01/21/2025	ND	208	104	200	3.63	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	194	97.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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Cardinal Laboratories

\*=Accredited Analyte

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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

Work Order No: 14050993

Page 1 of 4

Project Manager:	Kellian Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Forehand Ranch 27 State #005		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	248972		<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush															None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Eddy Co. NM		Due Date:	48 hr															Cool: Cool	MeOH: Me	
Sampler's Name:	Grant Gardner		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC	HNO <sub>3</sub> : HN	
PO #																			H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												HOLD		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:	-5140														NaHSO <sub>4</sub> : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Correction Factor:	-0.02														Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Temperature Reading:	-4.8°C														Zn Acetate+NaOH: Zn			
Total Containers:	36		Corrected Temperature:	-5.4°C														NaOH+Ascorbic Acid: SAPC			
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
V-1	0-0.5'	1/16/2025		X		Grab	1	X	X	X											
V-1	1-1.5'	1/16/2025		X		Grab	1	X	X	X											
V-1	2-2.5'	1/16/2025		X		Grab	1	X	X	X											
V-1	3-3.5'	1/16/2025		X		Grab	1	X	X	X											
V-1	4-4.5'	1/16/2025		X		Grab	1	X	X	X											
V-2	0-0.5'	1/16/2025		X		Grab	1	X	X	X											
V-2	1-1.5'	1/16/2025		X		Grab	1	X	X	X											
V-2	2-2.5'	1/16/2025		X		Grab	1	X	X	X											
V-2	3-3.5'	1/16/2025		X		Grab	1	X	X	X											
V-2	4-4.5'	1/16/2025		X		Grab	1	X	X	X											

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Grant Gardner	CT	1/17/25 12:00pm	G	CP	1-17-25 1351
3					
5					





Chain of Custody

Work Order No: H250093

Page 2 of 4

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Forehand Ranch 27 State #005	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Due Date:	48 hr
Project Number:	248972	TAT starts the day received by the lab, if received by 4:30pm			
Project Location:	Eddy Co. NM				
Sampler's Name:	Grant Gardier				
PO #					
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	#1114		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	0.010		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	-4.8°C		
Total Containers:	36	Corrected Temperature:	-5.4°C		
		Parameters			
		BTEX 8021B			
		TPH 8015M ( GRO + DRO + MRO)			
		Chloride 4500			
		HOLD			
		None: NO			
		DI Water: H <sub>2</sub> O			
		Cool: Cool			
		MeOH: Me			
		HCL: HC			
		HNO <sub>3</sub> : HN			
		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>			
		NaOH: Na			
		H <sub>3</sub> PO <sub>4</sub> : HP			
		NaHSO <sub>4</sub> : NABIS			
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
		Zn Acetate+NaOH: Zn			
		NaOH+Ascorbic Acid: SAPC			

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
V-2	5-5.5'	1/16/2025		X		Grab	1	X		
V-2	6-6.5'	1/16/2025		X		Grab	1	X		
V-2	7-7.5'	1/16/2025		X		Grab	1	X		
V-2	8-8.5'	1/16/2025		X		Grab	1	X		
V-2	9-9.5'	1/16/2025		X		Grab	1	X		
V-3	0-0.5'	1/16/2025		X		Grab	1	X		
V-3	1-1.5'	1/16/2025		X		Grab	1	X		
V-3	2-2.5'	1/16/2025		X		Grab	1	X		
V-3	3-3.5'	1/16/2025		X		Grab	1	X		
V-3	4-4.5'	1/16/2025		X		Grab	1	X		

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Grant Gardier	CT	1/17/25 12:00pm	CT	ADP	1-17-25 1:35
3					
5					





Chain of Custody

Work Order No: 4850293

Page 3 of 4

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Forehand Ranch 27 State #005	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Due Date:	48 hr
Project Number:	248972				
Project Location:	Eddy Co. NM				
Sampler's Name:	Grant Gardner				
PO #					
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	#146		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	0.10		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-4.82		
Total Containers:	36	Corrected Temperature:	-5.42		

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
V-3	5-5.5'	1/16/2025		X		Grab	1	X	X	X	
V-3	6-6.5'	1/16/2025		X		Grab	1	X	X	X	
V-3	7-7.5'	1/16/2025		X		Grab	1	X	X	X	
V-3	8-8.5'	1/16/2025		X		Grab	1	X	X	X	
V-3	9-9.5'	1/16/2025		X		Grab	1	X	X	X	
V-3	10-10.5'	1/16/2025		X		Grab	1	X	X	X	
V-3	11-11.5'	1/16/2025		X		Grab	1	X	X	X	
V-4	0-0.5'	1/16/2025		X		Grab	1	X	X	X	
V-4	1-1.5'	1/16/2025		X		Grab	1	X	X	X	
V-4	2-2.5'	1/16/2025		X		Grab	1	X	X	X	

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. Grant Gardner	CT	1/17/25 12:48pm	CT	CPAver	1-17-25 1:35L
3					
5					





Chain of Custody

Work Order No: 1050093

Page 4 of 4

Page 42 of 42

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Forehand Ranch 27 State #005	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	48 hr	Press. Code		ANALYSIS REQUEST												Preservative Codes		
Project Number:	248972	Due Date:	TAT starts the day received by the lab, if received by 4:30pm																None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Eddy Co. NM																		Cool: Cool	MeOH: Me	
Sampler's Name:	Grant Gardner																		HCL: HC	HNO <sub>3</sub> : HN	
PO #																			H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H <sub>3</sub> PO <sub>4</sub> : HP		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																	NaHSO <sub>4</sub> : NABIS		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:																	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:																	Zn Acetate+NaOH: Zn		
Total Containers:	36	Corrected Temperature:																	NaOH+Ascorbic Acid: SAPC		
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments	
V-4	3-3.5'	1/16/2025		X		Grab	1	BTX 8021B													
V-4	4-4.5'	1/16/2025		X		Grab	1	TPH 8015M ( GRO + DRO + MRO)													
H-1	0-0.5'	1/16/2025		X		Grab	1	Chloride 4500													
H-2	0-0.5'	1/16/2025		X		Grab	1														
H-3	0-0.5'	1/16/2025		X		Grab	1														
H-4	0-0.5'	1/16/2025		X		Grab	1														

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Grant Gardner	<u>1/17/25</u>	<u>11:00am</u>	2 <u>W</u>	<u>1/17/25</u>	<u>137</u>
3			4		
5			6		





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

March 18, 2025

KELLAN SMITH

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: FOREHAND RANCH 27 STATE COM #005

Enclosed are the results of analyses for samples received by the laboratory on 03/17/25 14:46.

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 "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 1 (H251556-01)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 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	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 64.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.2 % 40.6-153

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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 2 (H251556-02)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.1 % 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	96.0	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 69.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.5 % 40.6-153

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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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 3 (H251556-03)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 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	48.0	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 70.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.5 % 40.6-153

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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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 4 (H251556-04)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 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	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 5 (H251556-05)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 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	96.0	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 6 (H251556-06)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.7 % 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	720	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 74.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 7 (H251556-07)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 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	1060	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 77.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 8 (H251556-08)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.8 % 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	3440	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	80.0	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 9 (H251556-09)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572	
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.9 % 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	5280	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	64.5	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 71.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 10 (H251556-10)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 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	4800	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	45.4	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 62.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 59.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 11 (H251556-11)**

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	03/17/2025	ND	1.90	95.1	2.00	0.572		
Toluene*	<0.050	0.050	03/17/2025	ND	2.01	100	2.00	0.458		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.99	99.6	2.00	1.63		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.81	96.9	6.00	1.49		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 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	5600	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	36.5	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 74.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 12 (H251556-12)**

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	03/17/2025	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85	QM-07
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88	QM-07
Total BTX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	4400	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	74.0	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 13 (H251556-13)**

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	03/17/2025	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	4800	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	49.3	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 73.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 14 (H251556-14)**

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	03/17/2025	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	3520	16.0	03/18/2025	ND	432	108	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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	28.3	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 58.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 56.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 15 (H251556-15)**

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	03/17/2025	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88		
Total BTEX	<0.300	0.300	03/17/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	03/18/2025	ND	416	104	400	3.77	QM-07	

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	03/17/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	46.3	10.0	03/17/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 73.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 16 (H251556-16)**

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	03/17/2025	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88	
Total BTEx	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4840	16.0	03/18/2025	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	03/18/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	30.6	10.0	03/18/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 63.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.9 % 40.6-153

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 17 (H251556-17)**

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	03/17/2025	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	03/18/2025	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	03/18/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	86.2	10.0	03/18/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 78.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 18 (H251556-18)**

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	03/17/2025	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	03/18/2025	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	03/18/2025	ND	195	97.5	200	0.215	
DRO >C10-C28*	23.4	10.0	03/18/2025	ND	186	92.8	200	0.862	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 72.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 19 (H251556-19)**

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	03/17/2025	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88	
Total BTEx	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4120	16.0	03/18/2025	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	03/17/2025	ND	200	100	200	2.53	
DRO >C10-C28*	37.6	10.0	03/17/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 70.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.4 % 40.6-153

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 20 (H251556-20)**

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	03/17/2025	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88	
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4120	16.0	03/18/2025	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	03/17/2025	ND	200	100	200	2.53	
DRO >C10-C28*	181	10.0	03/17/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	38.1	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 21 (H251556-21)**

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	03/17/2025	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	03/18/2025	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	03/17/2025	ND	200	100	200	2.53	
DRO >C10-C28*	62.5	10.0	03/17/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	12.2	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.9 % 40.6-153

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 22 (H251556-22)**

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	03/17/2025	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	03/18/2025	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	03/17/2025	ND	200	100	200	2.53	
DRO >C10-C28*	36.8	10.0	03/17/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 23 (H251556-23)**

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	03/17/2025	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88		
Total BTEX	<0.300	0.300	03/17/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	03/18/2025	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	03/17/2025	ND	200	100	200	2.53	
DRO >C10-C28*	67.0	10.0	03/17/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	13.2	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.7 % 40.6-153

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 24 (H251556-24)**

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	03/17/2025	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88	
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	03/18/2025	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	03/17/2025	ND	200	100	200	2.53	
DRO >C10-C28*	52.4	10.0	03/17/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.6 % 40.6-153

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 25 (H251556-25)**

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	03/17/2025	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88		
Total BTEx	<0.300	0.300	03/17/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/18/2025	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	03/17/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.7 % 40.6-153

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 26 (H251556-26)**

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	03/17/2025	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88	
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.5 % 40.6-153

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 27 (H251556-27)**

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	03/17/2025	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 28 (H251556-28)**

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	03/17/2025	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88	
Total BTEx	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 29 (H251556-29)**

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	03/17/2025	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 75.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: CS - 30 (H251556-30)**

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	03/17/2025	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88		
Total BTEx	<0.300	0.300	03/17/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: SW - 1 (H251556-31)**

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	03/17/2025	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	03/17/2025	ND	2.16	108	2.00	4.81	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.40	120	2.00	6.85	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	7.37	123	6.00	6.88	
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 71.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: SW - 2 (H251556-32)**

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	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	QM-07
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	QM-07
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 78.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: SW - 3 (H251556-33)**

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	03/17/2025	ND	2.04	102	2.00	10.1		
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03		
Total BTEx	<0.300	0.300	03/17/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 70.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 62.9 % 40.6-153

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: SW - 4 (H251556-34)**

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	03/17/2025	ND	2.04	102	2.00	10.1		
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 65.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 58.2 % 40.6-153

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: SW - 5 (H251556-35)**

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	03/17/2025	ND	2.04	102	2.00	10.1		
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	48.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: SW - 6 (H251556-36)**

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	03/17/2025	ND	2.04	102	2.00	10.1		
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03		
Total BTEx	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	64.0	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 66.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 59.6 % 40.6-153

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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  
 KELLAN SMITH  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	03/17/2025	Sampling Date:	03/14/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	FOREHAND RANCH 27 STATE COM #00	Sampling Condition:	Cool & Intact
Project Number:	248972	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

**Sample ID: SW - 7 (H251556-37)**

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	03/17/2025	ND	2.04	102	2.00	10.1		
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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 "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



## Chain of Custody

Work Order No: 11051584

Page 1 of 4

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK	City, State ZIP:	
Phone:		Email:	<a href="mailto:ksmith@ntglobal.com">ksmith@ntglobal.com</a>

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:





Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name: Forehand Ranch 27 State #005				Turn Around		ANALYSIS REQUEST													Preservative Codes									
Project Number: 248972		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush															None: NO DI Water: H <sub>2</sub> O											
Project Location: Eddy County, NM		Due Date: 24hr															Cool: Cool MeOH: Me											
Sampler's Name: Clayton Tumas		TAT starts the day received by the lab, if received by 4:30pm															HCL: HC HNO <sub>3</sub> : HN											
PO #																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na											
SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No															H <sub>3</sub> PO <sub>4</sub> : HP									
Received Intact: Yes No		Thermometer ID: #110															NaHSO <sub>4</sub> : NABIS											
Cooler Custody Seals: Yes No		Correction Factor: 0.032															Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>											
Sample Custody Seals: Yes No		Temperature Reading: 0.02															Zn Acetate+NaOH: Zn											
Total Containers: 37		Corrected Temperature: 1.32															NaOH+Ascorbic Acid: S APC											
Sample Identification		Depth (ft bgs)		Date		Time		Soil		Water		Grab/Comp		# of Cont		Sample Comments												
CS-1				3/14/2025				X				Comp		1		X X X X												
CS-2				3/14/2025				X				Comp		1		X X X X												
CS-3				3/14/2025				X				Comp		1		X X X X												
CS-4				3/14/2025				X				Comp		1		X X X X												
CS-5				3/14/2025				X				Comp		1		X X X X												
CS-6				3/14/2025				X				Comp		1		X X X X												
CS-7				3/14/2025				X				Comp		1		X X X X												
CS-8				3/14/2025				X				Comp		1		X X X X												
CS-9				3/14/2025				X				Comp		1		X X X X												
CS-10				3/14/2025				X				Comp		1		X X X X												

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		3/17/25 8:37am	2 		3/17/25/1440
3			4		
5			6		





Chain of Custody

Work Order No: 125580

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK	City, State ZIP:	
Phone:		Email:	esessums@ntglobal.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Forehand Ranch 27 State #005	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	248972	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush															None: NO	DI Water: H <sub>2</sub> O		
Project Location:	Eddy County, NM	Due Date:	24hr															Cool: Cool	MeOH: Me		
Sampler's Name:	Clayton Turnas	TAT starts the day received by the lab, if received by 4:30pm																HCL: HC	HNO <sub>3</sub> : HN		
PO #																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na			
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H <sub>3</sub> PO <sub>4</sub> : HP			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	#114D	Correction Factor:	0.03													NaHSO <sub>4</sub> : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	0.0	Corrected Temperature:	1.2													Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																	Zn Acetate+NaOH: Zn			
Total Containers:	37																	NaOH+Ascorbic Acid: SACP			
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	BTX 8021B												Sample Comments	
11 CS-11		3/14/2025		X		Comp	1	X	X	X											
12 CS-12		3/14/2025		X		Comp	1	X	X	X											
13 CS-13		3/14/2025		X		Comp	1	X	X	X											
14 CS-14		3/14/2025		X		Comp	1	X	X	X											
15 CS-15		3/14/2025		X		Comp	1	X	X	X											
16 CS-16		3/14/2025		X		Comp	1	X	X	X											
17 CS-17		3/14/2025		X		Comp	1	X	X	X											
18 CS-18		3/14/2025		X		Comp	1	X	X	X											
19 CS-19		3/14/2025		X		Comp	1	X	X	X											
20 CS-20		3/14/2025		X		Comp	1	X	X	X											

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>CT</i>	<i>[Signature]</i>	3/17/25 8:37am	2 <i>[Signature]</i>	<i>[Signature]</i>	3/17/25 11:44
3			4		
5			6		





Chain of Custody

Work Order No: 425155

Page 3 of 4

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK	City, State ZIP:	
Phone:		Email:	esessums@ntglobal.com

Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Unperturbed	
State of Project:	
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Forehand Ranch 27 State #005	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number:	248972	Due Date:	24hr													None: NO	DI Water: H <sub>2</sub> O
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm														Cool: Cool	MeOH: Me
Sampler's Name:	Clayton Turnas															HCL: HC	HNO <sub>3</sub> : HN
PO #																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	#146													NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	0.03													Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	0.0													Zn Acetate+NaOH: Zn	
Total Containers:	37	Corrected Temperature:	1.2													NaOH+Ascorbic Acid: SAPC	

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters										Sample Comments	
								BTEX 8021B											
								TPH 8015M ( GRO + DRO + MRO)											
								Chloride 4500											
21 CS-21		3/14/2025		X		Comp	1	X	X	X									
22 CS-22		3/14/2025		X		Comp	1	X	X	X									
23 CS-23		3/14/2025		X		Comp	1	X	X	X									
24 CS-24		3/14/2025		X		Comp	1	X	X	X									
25 CS-25		3/14/2025		X		Comp	1	X	X	X									
26 CS-26		3/14/2025		X		Comp	1	X	X	X									
27 CS-27		3/14/2025		X		Comp	1	X	X	X									
28 CS-28		3/14/2025		X		Comp	1	X	X	X									
29 CS-29		3/14/2025		X		Comp	1	X	X	X									
30 CS-30		3/14/2025		X		Comp	1	X	X	X									

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	3/17/25 8:37am	<u>[Signature]</u>	<u>[Signature]</u>	3/17/25 11:40





Chain of Custody

Work Order No: 4251554

Page 4 of 4

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK	City, State ZIP:	
Phone:		Email:	esessums@ntglobal.com

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Forehand Ranch 27 State #005	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	248972	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush															None: NO	DI Water: H <sub>2</sub> O
Project Location:	Eddy County, NM	Due Date:	24hr															Cool: Cool	MeOH: Me
Sampler's Name:	Clayton Turnas	TAT starts the day received by the lab, if received by 4:30pm																HCL: HC	HNO <sub>3</sub> : HN
PO #:																		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												HOLD	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	#1146			BTEX 8021B												NaHSO <sub>4</sub> : HP	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	0.92			TPH 8015M ( GRO + DRO + MRO )												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NABIS	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	0.92			Chloride 4500												Zn Acetate+NaOH: Zn	
Total Containers:	37	Corrected Temperature:	1.22															NaOH+Ascorbic Acid: SAPC	

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	TPH												Sample Comments
31 SW-1		3/14/2025		X		Comp	1	X	X	X										
32 SW-2		3/14/2025		X		Comp	1	X	X	X										
33 SW-3		3/14/2025		X		Comp	1	X	X	X										
34 SW-4		3/14/2025		X		Comp	1	X	X	X										
35 SW-5		3/14/2025		X		Comp	1	X	X	X										
36 SW-6		3/14/2025		X		Comp	1	X	X	X										
37 SW-7		3/14/2025		X		Comp	1	X	X	X										
																		</		

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
31	32	3/17/25 8:30am	33	34	3/17/25 8:30am
35	36		37		

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 452707

**QUESTIONS**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 452707
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2217321612
Incident Name	NAPP2217321612 FOREHAND RANCH 27 STATE 5 @ 30-015-41530
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-41530] FOREHAND RANCH 27 STATE #005

**Location of Release Source**

Please answer all the questions in this group.

Site Name	Forehand Ranch 27 State 5
Date Release Discovered	06/20/2022
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

Incident Type	Produced Water 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	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Valve   Produced Water   Released: 20 BBL   Recovered: 20 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	Not answered.

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

QUESTIONS, Page 2

Action 452707

**QUESTIONS (continued)**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 452707
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: Kelly Arrendondo Title: Production Reporting Manager Email: karredondo@ntglobal.com Date: 04/16/2025
--	---



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Phone: (505) 476-3441

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

QUESTIONS, Page 3

Action 452707

**QUESTIONS (continued)**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 452707
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (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 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</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>	
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
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	10100
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6620
GRO+DRO (EPA SW-846 Method 8015M)	5890
BTEX (EPA SW-846 Method 8021B or 8260B)	31.6
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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>	
On what estimated date will the remediation commence	02/24/2025
On what date will (or did) the final sampling or liner inspection occur	03/14/2025
On what date will (or was) the remediation complete(d)	03/21/2025
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	5842
What is the estimated volume (in cubic yards) that will be remediated	1050
<i>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.</i>	
<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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Action 452707

**QUESTIONS (continued)**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 452707
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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	<a href="#">LEA LAND LANDFILL [fEEM0112342028]</a>
<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: Kelly Arrendondo Title: Production Reporting Manager Email: <a href="mailto:karredondo@ntglobal.com">karredondo@ntglobal.com</a> Date: 04/16/2025
<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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Action 452707

QUESTIONS (continued)

Operator:  CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID:  249099
	Action Number:  452707
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
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.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 452707

**QUESTIONS (continued)**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 452707
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	447845
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/03/2025
What was the (estimated) number of samples that were to be gathered	27
What was the sampling surface area in square feet	3500

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5842
What was the total volume (cubic yards) remediated	1050
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	n/a
<p><i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i></p>	
<p>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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.</p>	
I hereby agree and sign off to the above statement	Name: Kelly Arrendondo Title: Production Reporting Manager Email: karredondo@ntglobal.com Date: 04/16/2025

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Action 452707

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No



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CONDITIONS

Action 452707

**CONDITIONS**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 452707
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Remediation Closure for this incident is approved.	8/14/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/14/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/14/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	8/14/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/14/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	8/14/2025