

# Remediation Summary & Soil Closure Request

**XTO Energy, Inc.**

**ADU 226**

Eddy County, New Mexico

Unit Letter "O", Section 30, Township 20 South, Range 28 East

Latitude 32.53901 North, Longitude 104.21636 West

**NMOCD Reference No. nAPP2409551506**

Prepared By:

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Midland • San Antonio • Lubbock • Hobbs • Lafayette

## TABLE OF CONTENTS

	<i>Section</i>
PROJECT INFORMATION.....	<b>1.0</b>
SITE CHARACTERIZATION.....	<b>2.0</b>
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	<b>3.0</b>
INITIAL SITE ASSESSMENT.....	<b>4.0</b>
REMEDIATION ACTIVITIES SUMMARY.....	<b>5.0</b>
SOIL CLOSURE REQUEST.....	<b>6.0</b>
RESTORATION, RECLAMATION & RE-VEGETATION.....	<b>7.0</b>
LIMITATIONS.....	<b>8.0</b>
DISTRIBUTION.....	<b>9.0</b>

### FIGURES

- Figure 1 - Site Location Map
- Figure 2A - Site Characterization Map (0.5-Mile Radius)
- Figure 2B - Site Characterization Map (5-Mile Radius)
- Figure 3 - Sample Location Map

### TABLES

- Table 1 - Concentrations of BTEX, TPH & Chloride in Soil

### APPENDICES

- Appendix A - Depth to Groundwater Information
- Appendix B - Field Data
- Appendix C - Photographic Log
- Appendix D - Laboratory Analytical Reports
- Appendix E - Regulatory Correspondence
- Appendix F - NMCRIS Investigation Abstract Form (NIAF)



## 2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	NM OSE iWaters Database Search
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between 500 and 1,000 (ft.)
An occupied permanent residence, school, hospital, institution or church?	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1,000 (ft.) and ½ (mi.)
Any other fresh water well or spring?	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Greater than 5 (mi.)
A wetland?	Between 500 and 1,000 (ft.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Between ½ and 1 (mi.)
Categorize the risk of this well/site being in a karst geology.	Medium
A 100-year floodplain?	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the ADU 226 release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided in Appendix A.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2A, 2B, and 4.

On May 13, 2024, in accordance with New Mexico State Land Office (NMSLO) remediation guidelines and the Cultural Properties Protection Rule, an archaeological/cultural survey was conducted at the release site. The survey included a 100-foot cultural buffer around the inferred affected area, resulting in an Area of Potential Effects (APE) measuring approximately 1.3 acres (0.46 hectares). According to the New Mexico Cultural Resource Information System (NMCRIS) Investigation Abstract Form (NIAF), "No archaeological sites, historic properties, or isolated occurrences were observed during the current investigation. No additional investigation or treatment is recommended regarding the current undertaking." A copy of the NIAF is provided as Appendix F.

### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the ADU 226 release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
Between 100 and 500 (ft.)	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

\*\* Environmental Protection Agency

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

### 4.0 INITIAL SITE ASSESSMENT

On May 2, 2024, Etech conducted an initial site assessment. During the initial site assessment, three (3) hand-augered soil bores (SP 1, SP 2, and SP 3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, eight (8) hand-augered soil bores (NH 1, NH 2, EH 1, EH 2, SH 1, SH 2, WH 1, and WH 2) were advanced along the release margins to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, a total of 22 delineation soil samples (NH 1 @ Surf, NH 1 @ 1', NH 2 @ Surf, NH 2 @ 1', EH 1 @ Surf, EH 1 @ 1', EH 2 @ Surf, EH 2 @ 1', SH 1 @ Surf, SH 1 @ 1', SH 2 @ Surf, SH 2 @ 1', WH 1 @ Surf, WH 1 @ 1', WH 2 @ Surf, WH 2 @ 1', SP 1 @ Surf, SP 1 @ 6', SP 2 @ Surf, SP 2 @ 3', SP 3 @ Surf, and SP 3 @ 5') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined and ranged from approximately three (3) feet bgs in the area characterized by sample point SP 2 to six (6) feet bgs in the area characterized by sample point SP 1. The horizontal extent of impacted soil was adequately defined in the areas characterized by sample points NH 1, NH 2, EH 1, EH 2, SH 2, WH 1, and WH 2. However, additional horizontal delineation was required in the area characterized by sample point SH 1.

The locations of the hand-augered soil borings are depicted in Figure 3, "Sample Location Map".

### 5.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	5/16/2024
On what date will (or did) the final sampling or liner inspection occur?	5/22/2024
On what date will (or was) the remediation complete(d)?	5/30/2024
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	1,520
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	225
What was the total surface area (sq. ft.) that has or will be remediated?	1,520
What was the total volume (cy) that has or will be remediated?	340
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	R360 Halfway Facility
NMOCD Disposal Facility ID?	fEEM0112334510
Summarize any additional remediation activities not included by answers above.	See below

On May 16, 2024, Etech commenced remediation activities at the ADU 226 release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	91,200	SP 2 @ Surf	5/2/2024	0	Excavated
TPH	37,600	SP 2 @ Surf	5/2/2024	0	Excavated
GRO+DRO	28,900	SP 2 @ Surf	5/2/2024	0	Excavated
BTEX	4.81	SP 2 @ Surf	5/2/2024	0	Excavated
Benzene	0.178	EH 2 @ Surf	5/2/2024	0	In-Situ

Please reference Table 1 for additional information.

On May 21, 2024, Etech collected nine (9) confirmation soil samples (FL 1 @ 8.5' through FL 4 @ 4', EW 1, SW 1, SW 2, WW 1, and WW 2) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the laboratory method detection limit (MDL), with the exception of soil sample WW 2, which exhibited a TPH concentration of 19.7 mg/kg. Chloride concentrations ranged from 48.0 mg/kg in soil sample WW 1 to 160 mg/kg in soil sample FL 1 @ 8.5'.

On May 22, 2024, Etech collected 11 confirmation soil samples (FL 5 @ 4' through FL 12 @ 6', NW 1, NW 2, and EW 2) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil samples FL 8 @ 6', FL 11 @ 6', and FL 12 @ 6' to 64.0 mg/kg in soil sample NW 1.

The final dimensions of the excavated area were approximately 50 feet in length, 14 to 42 feet in width, and four (4) to 8.5 feet in depth. During the course of remediation activities, Etech transported approximately 340 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 320 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

## 6.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	1,520	
What was the total volume (cy) remediated?	340	

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends XTO Energy, Inc., provide copies of this Remediation Summary & Soil Closure Request to the appropriate agencies and request remediation closure approval be granted to the ADU 226 release site.

## 7.0 RESTORATION, RECLAMATION & RE-VEGETATION

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	1,520	
What was the total volume (in cubic yards) reclaimed?	225	

On May 28, 2024, in accordance with NMOCD requirements, a 5-point composite soil sample (Stockpile) was collected from the imported material stockpiled on-site to be utilized as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the soil sample were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

From May 28 to May 30, 2024, upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with the stockpiled material (characterized by soil sample Stockpile) emplaced at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

On June 26, 2024, in accordance with NMOCD and NMSLO requirements, the affected area was seeded with an NMSLO Sandy Loam seed mixture certified to be free of noxious weeds. The seed was installed at the prescribed rate utilizing a broadcaster and harrow. Photographs of the seeding event and seed tag are provided in Appendix C.

## 8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of XTO Energy, Inc. Use of the information contained in this report is prohibited without the consent of Etech and/or XTO Energy, Inc.

## **9.0 DISTRIBUTION**

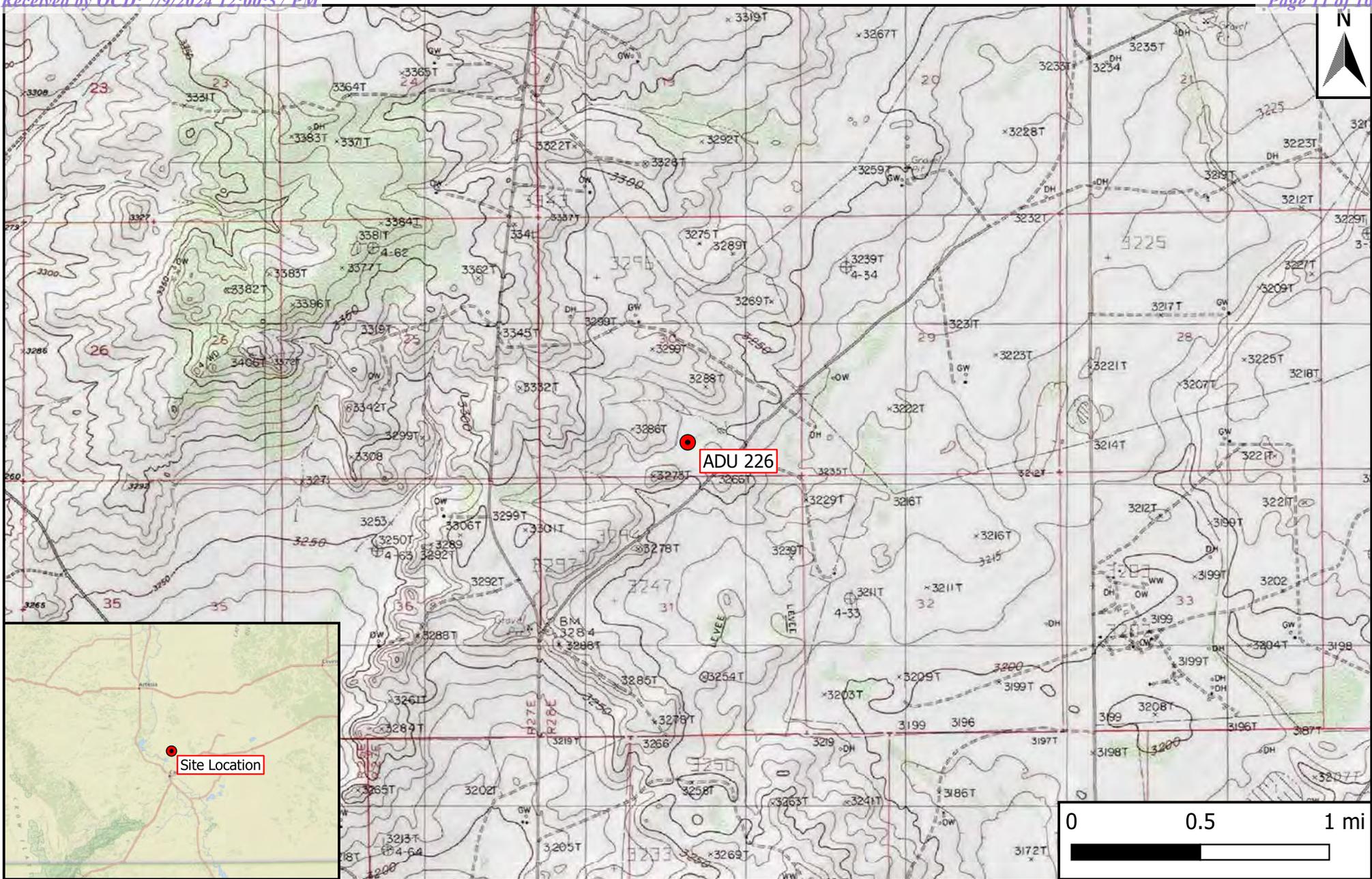
***XTO Energy, Inc.***  
*3104 E. Greene St.*  
*Carlsbad, NM 88220*

***New Mexico Energy, Minerals and Natural Resources Department***  
*Oil Conservation Division, District 2*  
*811 S. First Street*  
*Artesia, NM 88210*

***Hobbs Field Office***  
*New Mexico State Land Office*  
*2827 North Dal Paso Street*  
*Suite 117*  
*Hobbs, NM 88240*

*(Electronic Submission)*

# Figure 1 Site Location Map



Legend  
 ● Site Location

**Figure 1**  
 Site Location Map  
 XTO Energy, Inc.  
 ADU 226  
 GPS: 32.53901, -104.21636  
 Eddy County, New Mexico



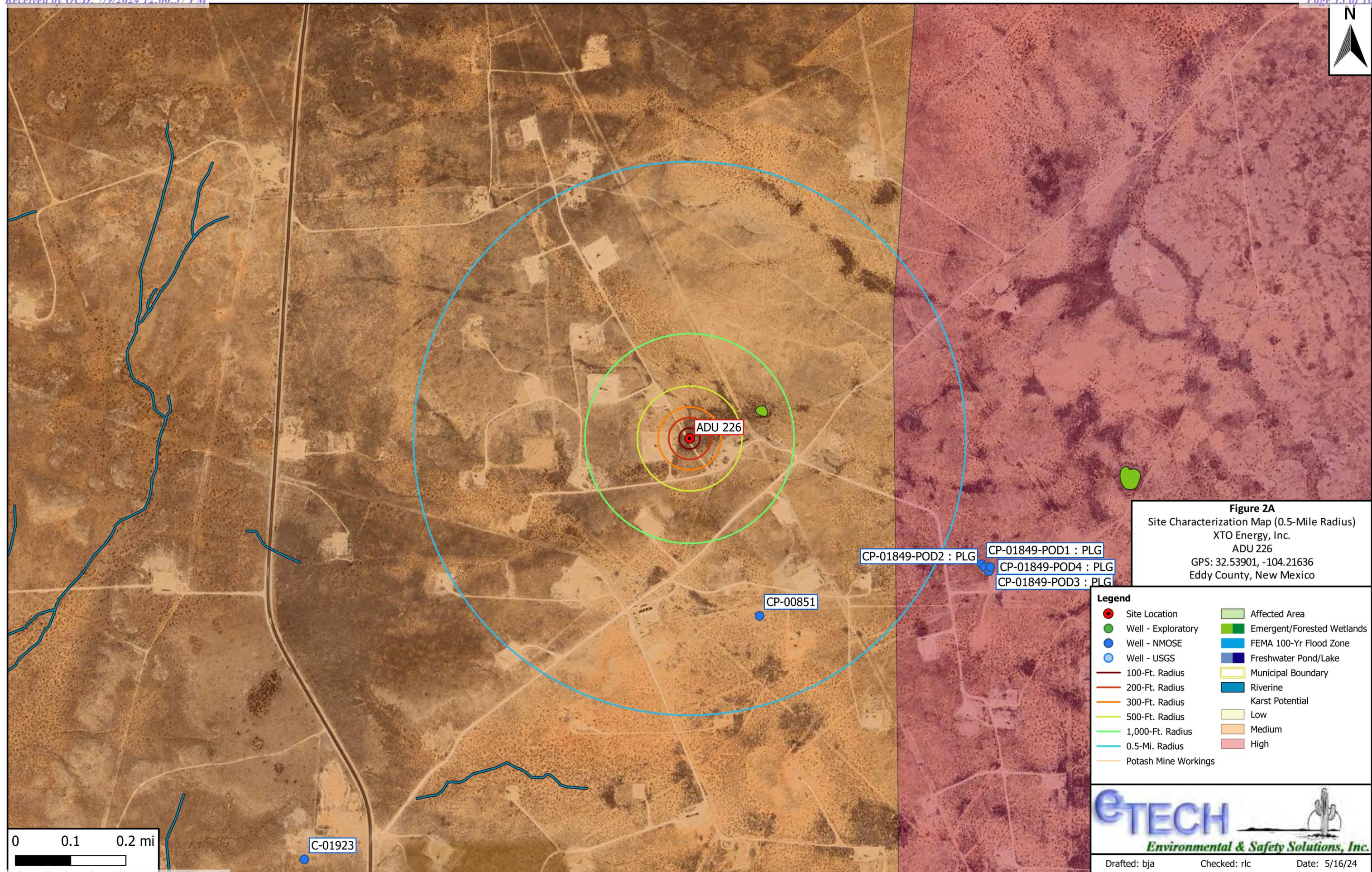
Drafted: bja

Checked: rlc

Date: 5/16/24

## **Figures 2A & 2B**

### **Site Characterization Maps**

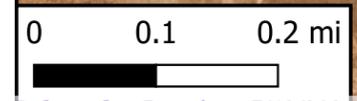


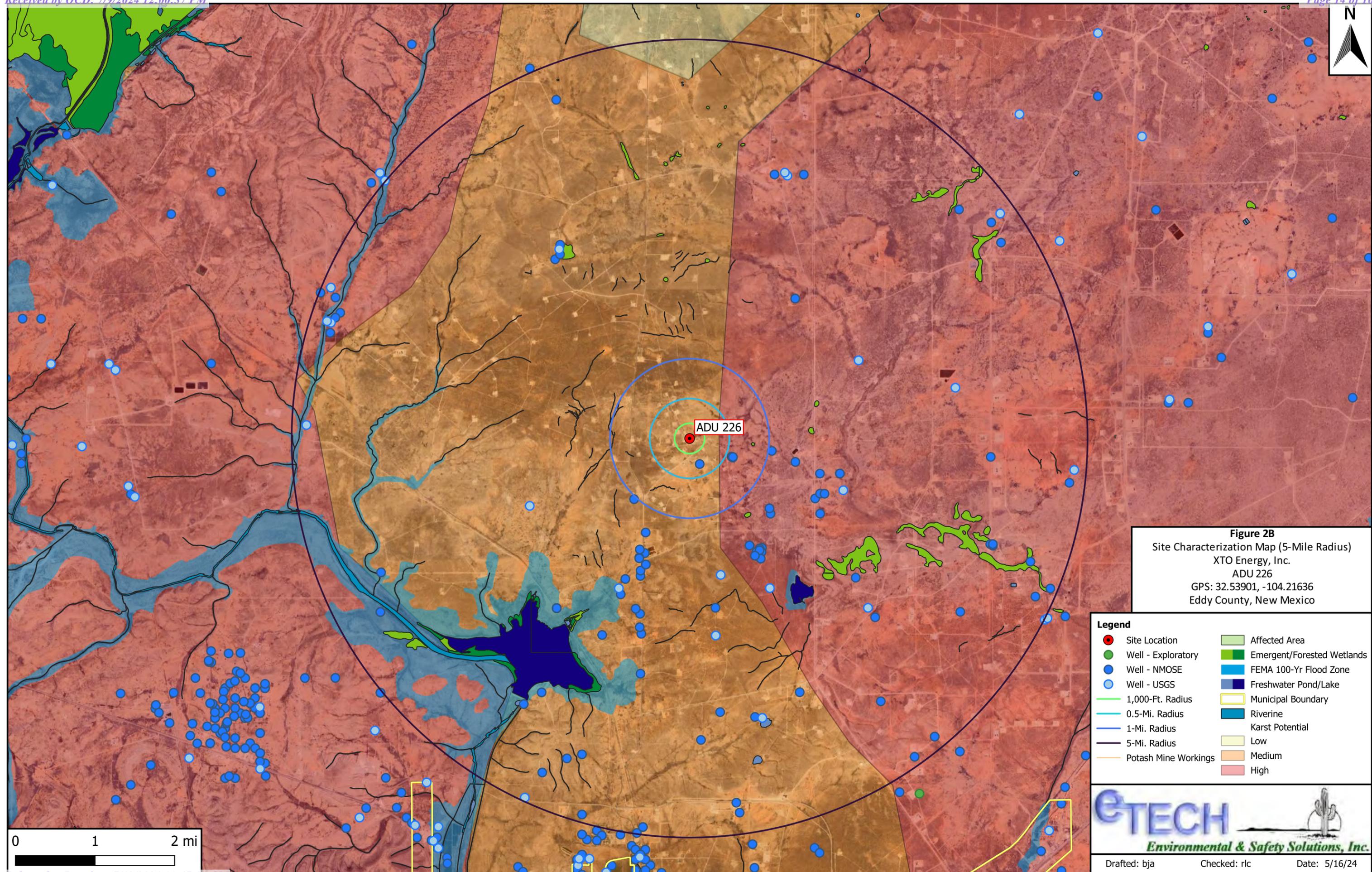
**Figure 2A**  
 Site Characterization Map (0.5-Mile Radius)  
 XTO Energy, Inc.  
 ADU 226  
 GPS: 32.53901, -104.21636  
 Eddy County, New Mexico

Legend	
	Site Location
	Well - Exploratory
	Well - NMOSE
	Well - USGS
	100-Ft. Radius
	200-Ft. Radius
	300-Ft. Radius
	500-Ft. Radius
	1,000-Ft. Radius
	0.5-Mi. Radius
	Potash Mine Workings
	Affected Area
	Emergent/Forested Wetlands
	FEMA 100-Yr Flood Zone
	Freshwater Pond/Lake
	Municipal Boundary
	Riverine
	Karst Potential
	Low
	Medium
	High



Drafted: bja      Checked: rlc      Date: 5/16/24





**Figure 2B**  
 Site Characterization Map (5-Mile Radius)  
 XTO Energy, Inc.  
 ADU 226  
 GPS: 32.53901, -104.21636  
 Eddy County, New Mexico

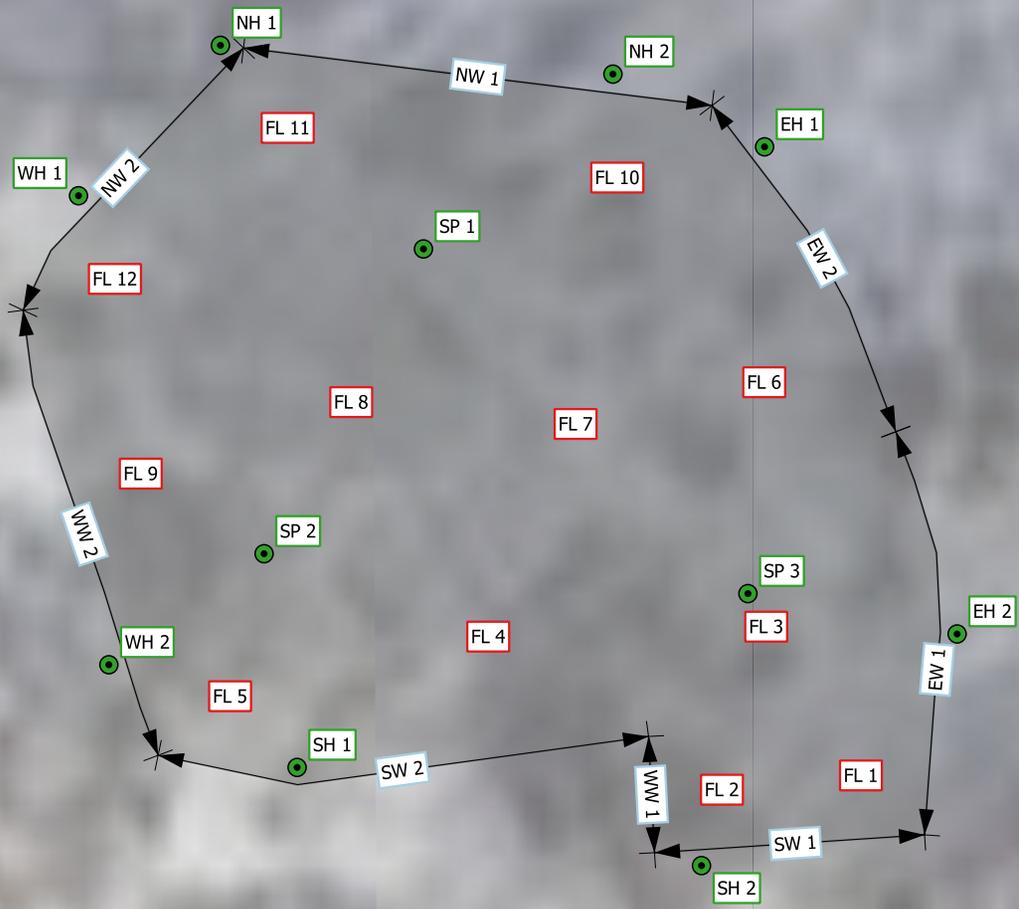
- Legend**
- Site Location
  - Well - Exploratory
  - Well - NMOSE
  - Well - USGS
  - 1,000-Ft. Radius
  - 0.5-Mi. Radius
  - 1-Mi. Radius
  - 5-Mi. Radius
  - Potash Mine Workings
  - Affected Area
  - Emergent/Forested Wetlands
  - FEMA 100-Yr Flood Zone
  - Freshwater Pond/Lake
  - Municipal Boundary
  - Riverine
  - Karst Potential
  - Low
  - Medium
  - High



Drafted: bja      Checked: rlc      Date: 5/16/24



## Figure 3 Sample Location Map



Legend

	Excavation Extent (1,520 ft <sup>2</sup> )
	Composite Floor Sample
	Composite Wall Sample
	Delineation Sample Location

**Figure 3**  
 Sample Location Map  
 XTO Energy, Inc.  
 ADU 226  
 GPS: 32.53901,-104.21636  
 Eddy County, New Mexico

Drafted: bja      Checked: rlc      Date: 6/28/24

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>XTO Energy, Inc.</b> <b>ADU 226</b> <b>NMOCD Ref. #: nAPP2409551506</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
<b>Delineation Samples</b>											
NH 1 @ Surf	5/2/2024	0	In-Situ	0.132	0.391	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH 1 @ 1'	5/2/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH 2 @ Surf	5/2/2024	0	In-Situ	0.111	0.482	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH 2 @ 1'	5/2/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 1 @ Surf	5/2/2024	0	In-Situ	0.0830	0.301	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 1 @ 1'	5/2/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 2 @ Surf	5/2/2024	0	In-Situ	0.178	0.825	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 2 @ 1'	5/2/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 1 @ Surf	5/2/2024	0	Excavated	0.0830	0.302	<10.0	277	277	184	461	64.0
SH 1 @ 1'	5/2/2024	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 2 @ Surf	5/2/2024	0	In-Situ	0.100	0.503	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 2 @ 1'	5/2/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WH 1 @ Surf	5/2/2024	0	In-Situ	0.0880	0.313	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH 1 @ 1'	5/2/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WH 2 @ Surf	5/2/2024	0	In-Situ	0.119	0.549	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH 2 @ 1'	5/2/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP 1 @ Surf	5/2/2024	0	Excavated	<0.050	<0.300	<50.0	4,590	4,590	1,480	6,070	52,000
SP 1 @ 6'	5/2/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP 2 @ Surf	5/2/2024	0	Excavated	0.0580	4.81	420	28,500	28,900	8,720	37,600	91,200
SP 2 @ 3'	5/2/2024	3	In-Situ	<0.050	<0.300	<10.0	19.5	19.5	<10.0	19.5	112
SP 3 @ Surf	5/2/2024	0	Excavated	0.0830	1.92	207	16,400	16,600	4,830	21,400	47,200
SP 3 @ 5'	5/2/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
<b>Excavation Samples</b>											
FL 1 @ 8.5'	5/21/2024	8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 2 @ 8.5'	5/21/2024	8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 3 @ 4'	5/21/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 4 @ 4'	5/21/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 5 @ 4'	5/22/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 6 @ 4'	5/22/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 7 @ 4'	5/22/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 8 @ 6'	5/22/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 9 @ 6'	5/22/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 10 @ 6'	5/22/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 11 @ 6'	5/22/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 12 @ 6'	5/22/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 1	5/22/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 2	5/22/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 1	5/21/2024	0-8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW 2	5/22/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 1	5/21/2024	0-8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 2	5/21/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW 1	5/21/2024	0-8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 2	5/21/2024	0-6	In-Situ	<0.050	<0.300	<10.0	19.7	19.7	<10.0	19.7	80.0

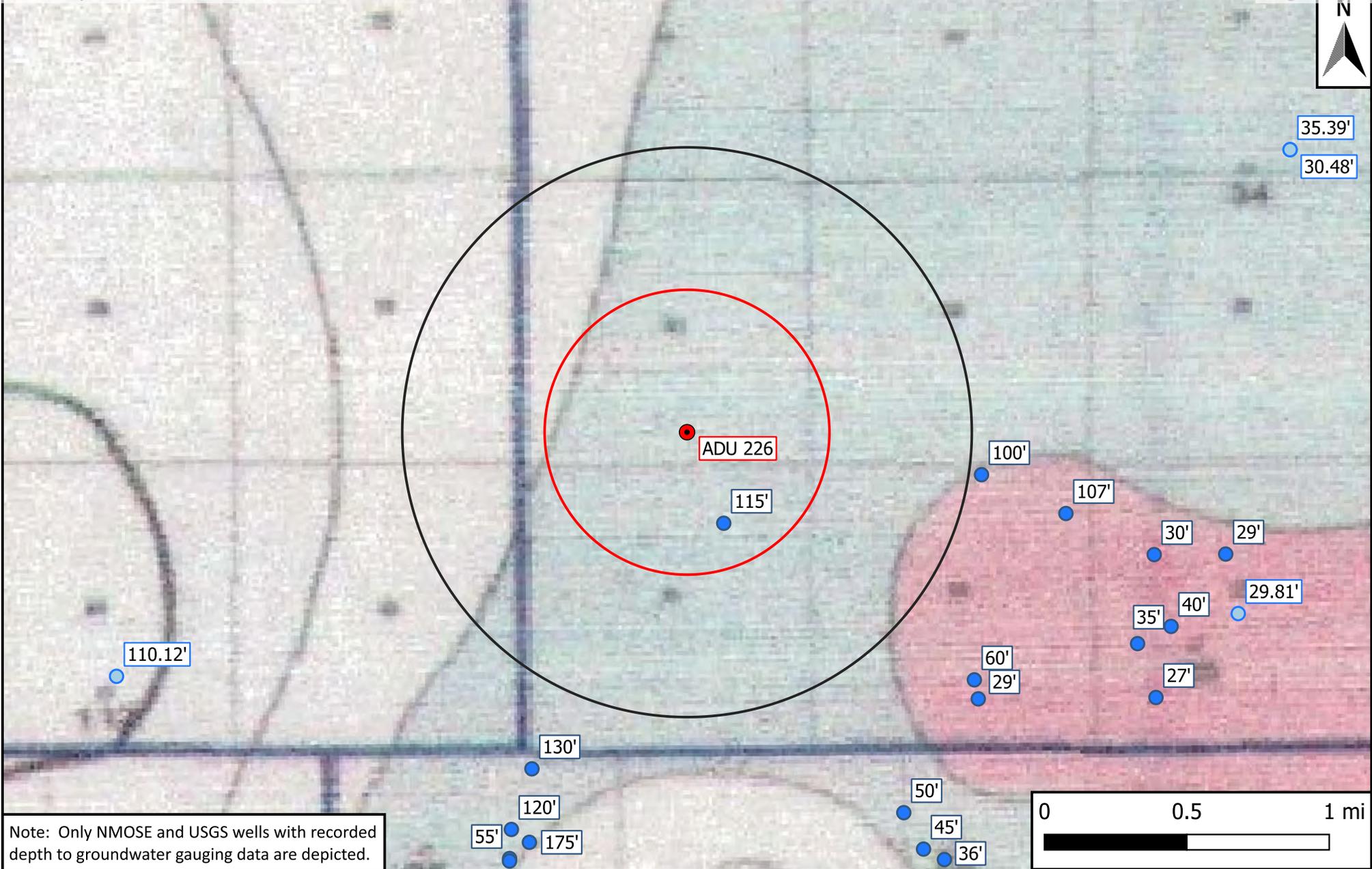
Dash (-): Sample not analyzed for that constituent.  
 Bold: NMOCD Closure Criteria exceedance.  
 Red: NMOCD Reclamation Standard exceedance.  
 Red-Outlined Cell: Highest observable concentration.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>XTO Energy, Inc.</b> <b>ADU 226</b> <b>NMOCD Ref. #: nAPP2409551506</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Backfill Sample											
Stockpile	5/28/2024	N/A	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240

Dash (-): Sample not analyzed for that constituent.  
**Bold:** NMOCD Closure Criteria exceedance.  
**Red:** NMOCD Reclamation Standard exceedance.  
 Red-Outlined Cell: Highest observable concentration.

# **Appendix A**

## **Depth to Groundwater Information**



Note: Only NMOSE and USGS wells with recorded depth to groundwater gauging data are depicted.

Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- 0.5-Mile Radius
- 1-Mile Radius

**Figure 4**  
 Inferred Depth to Groundwater Map  
 XTO Energy, Inc.  
 ADU 226  
 GPS: 32.53901, -104.21636  
 Eddy County, New Mexico





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP00851</a>		CP	ED	4	1	2	31	20S	28E	573791	3599940*	554	255	115	140

Average Depth to Water: **115 feet**  
 Minimum Depth: **115 feet**  
 Maximum Depth: **115 feet**

**Record Count:** 1

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 573583.67      **Northing (Y):** 3600454.11      **Radius:** 804.67

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/28/24 1:05 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	CP 00851	4 1 2 31	20S	28E	573791	3599940*	

<b>Driller License:</b> 421	<b>Driller Company:</b> GLENN'S WATER WELL SERVICE	
<b>Driller Name:</b> GLENN, CLARK A."CORKY" (LD)		
<b>Drill Start Date:</b> 09/14/1995	<b>Drill Finish Date:</b> 09/14/1995	<b>Plug Date:</b>
<b>Log File Date:</b> 09/21/1995	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 12 GPM
<b>Casing Size:</b> 6.63	<b>Depth Well:</b> 255 feet	<b>Depth Water:</b> 115 feet

Water Bearing Stratifications:	Top	Bottom	Description
	205	230	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	181	255

<b>Meter Number:</b> 8675	<b>Meter Make:</b> HALLIBURTON
<b>Meter Serial Number:</b> 1STA4383	<b>Meter Multiplier:</b> 1.0000
<b>Number of Dials:</b> 5	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Barrels 42 gal.	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Quarterly

**Meter Readings (in Acre-Feet)**

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/2005	2005	724	A	jw		0
04/01/2005	2005	1214	A	jw		0.063
07/12/2005	2005	1853	A	jw		0.082
10/07/2005	2005	2775	A	jw		0.119
01/01/2006	2005	4074	A	RPT		0.167
04/03/2006	2006	5539	A	RPT		0.189
04/01/2010	2010	917	R	RPT	Meter Rollover	12.294

**YTD Meter Amounts:	Year	Amount
	2005	0.431
	2006	0.189
	2010	12.294

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/28/24 1:06 PM

POINT OF DIVERSION SUMMARY

STATE ENGINEER OFFICE  
WELL RECORD

Revised June 1972

476231

Section 1. GENERAL INFORMATION

(A) Owner of well Exxon Company USA Owner's Well No. \_\_\_\_\_  
Street or Post Office Address P.O. Box 1600  
City and State Midland, Texas 79702-1600

Well was drilled under Permit No. CP-850 CP-851 and is located in the:

a.  $\frac{1}{4}$   $\frac{SE}{NW}$   $\frac{NW}{NW}$   $\frac{NE}{SW}$   $\frac{1}{4}$  of Section 31 Township 20-S. Range 28-E. N.M.P.M.

b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_

c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
Subdivision, recorded in \_\_\_\_\_ County.

d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in the \_\_\_\_\_ Grant.

(B) Drilling Contractor Glenn's Water Well Service License No. WD 421

Address P.O. Box 692 Tatum, New Mexico 88267

Drilling Began 9/14/95 Completed 9/14/95 Type tools rotary Size of hole 7 7/8 in.

Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 255 ft.

Completed well is  shallow  artesian. Depth to water upon completion of well 115 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
205	230	25	lime	12

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	.188		1	257	257	orange peel	181	257

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor \_\_\_\_\_  
Address \_\_\_\_\_  
Plugging Method \_\_\_\_\_  
Date Well Plugged \_\_\_\_\_  
Plugging approved by: \_\_\_\_\_

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 09-21-95

Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_

File No. CP-851 Use OWD Location No. 20.28.31.21411





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Data Category:  Geographic Area:

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Agency code = usgs

site\_no list =

- 323311104104602

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 323311104104602 20S.28E.21.43334 A

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°33'11", Longitude 104°10'46" NAD27

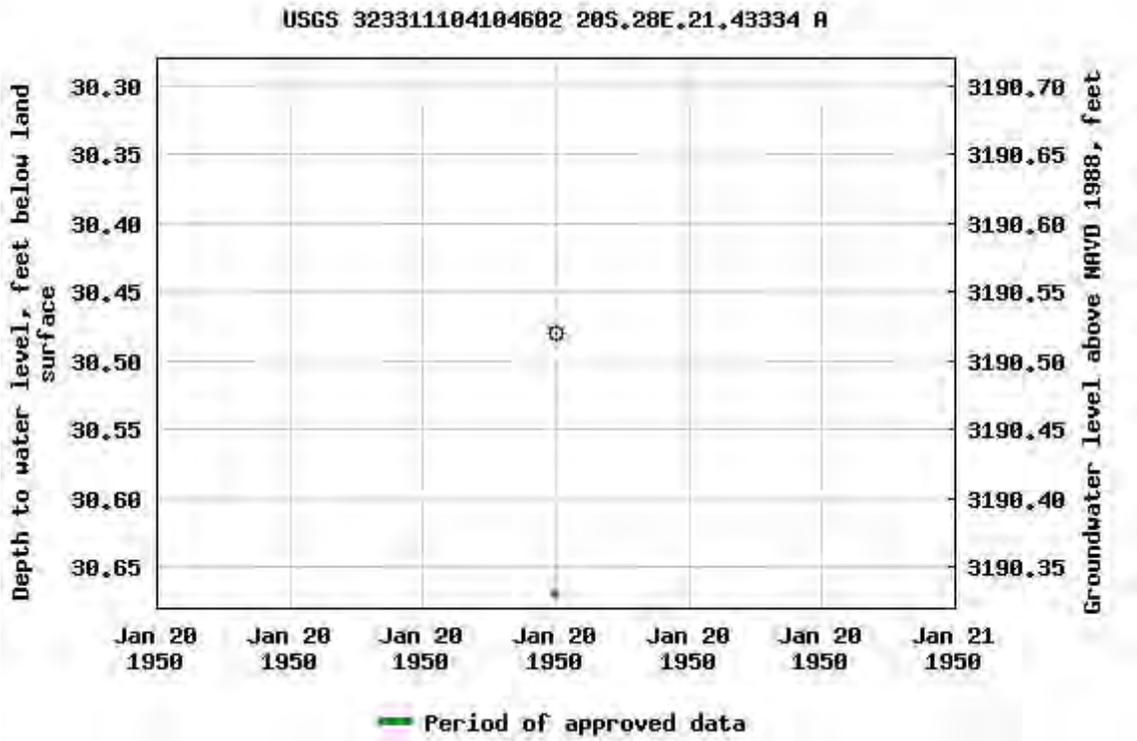
Land-surface elevation 3,221 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>



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0.58 0.51 nadww02



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site\_no list =

- 323311104104601

Minimum number of levels = 1

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### USGS 323311104104601 20S.28E.21.43334

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°33'11", Longitude 104°10'46" NAD27

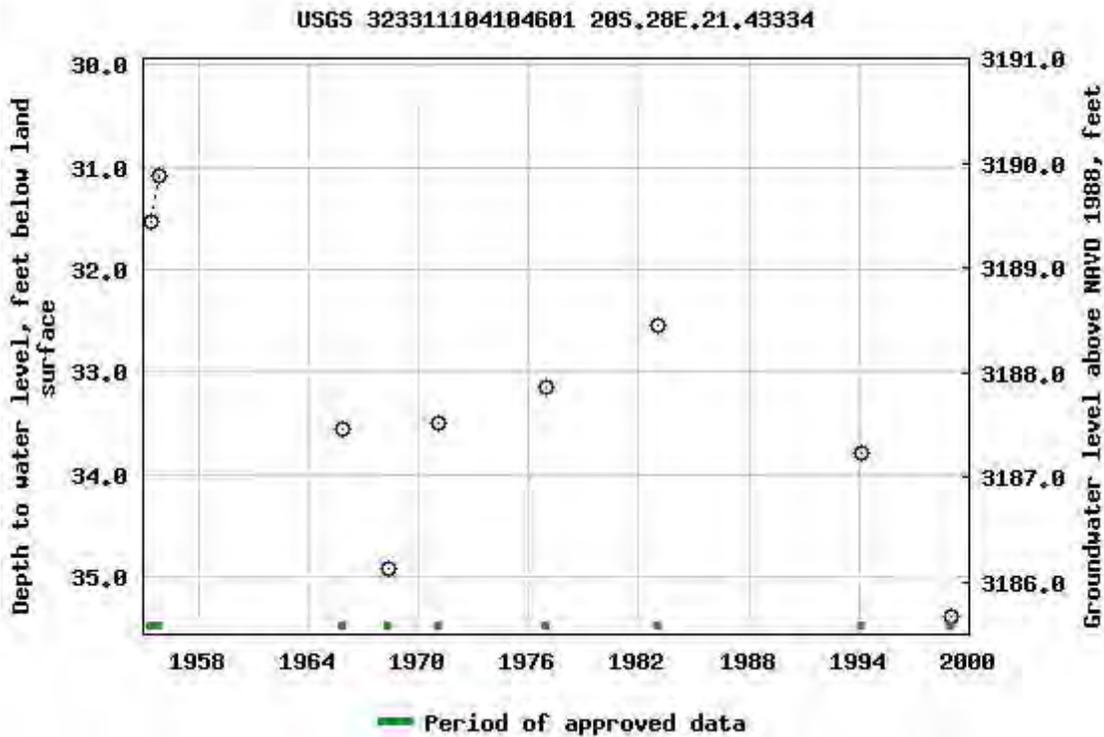
Land-surface elevation 3,221 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
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site\_no list =

- 323146104105801

Minimum number of levels = 1

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### USGS 323146104105801 20S.28E.33.32322

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°31'46", Longitude 104°10'58" NAD27

Land-surface elevation 3,198 feet above NAVD88

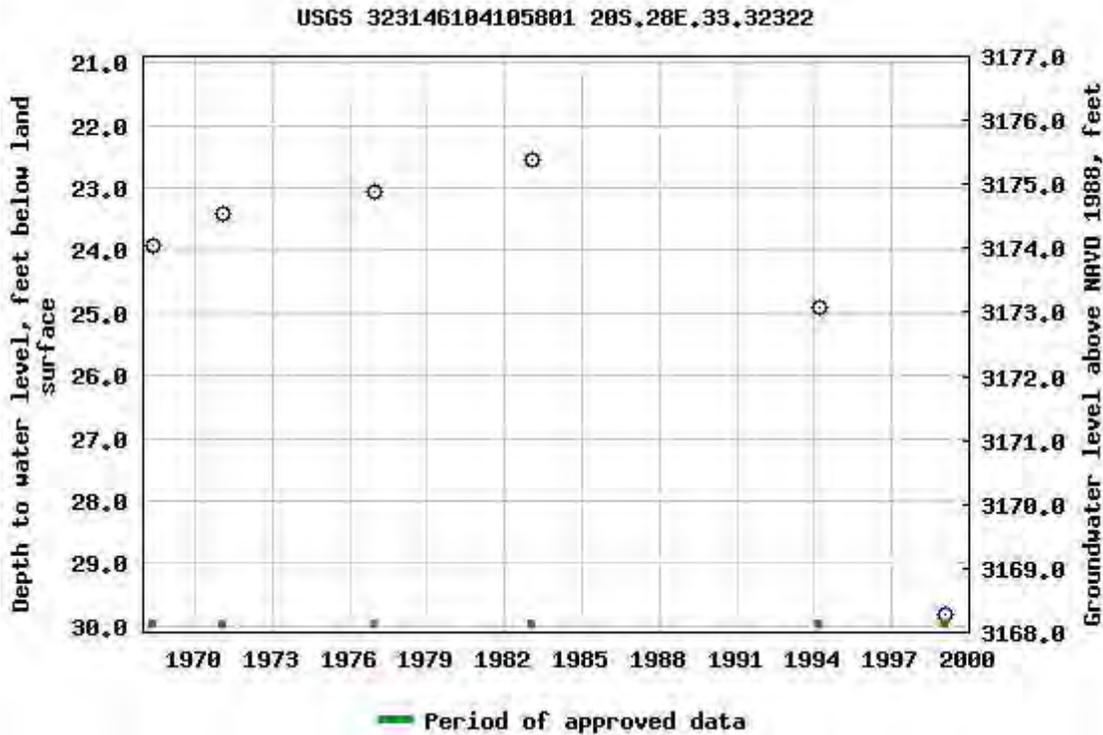
The depth of the well is 43 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### Output formats

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Agency code = usgs

site\_no list =

- 323136104150101

Minimum number of levels = 1

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### USGS 323136104150101 20S.27E.35.43114

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°31'36", Longitude 104°15'01" NAD27

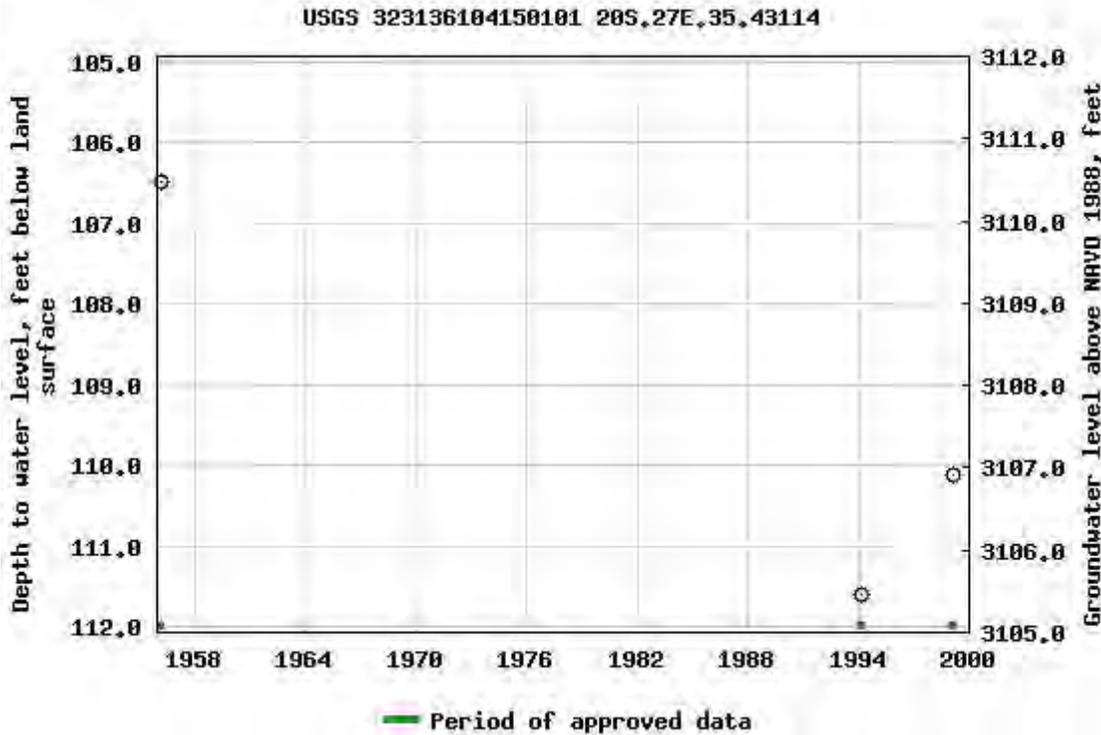
Land-surface elevation 3,217 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
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Agency code = usgs

site\_no list =

- 323022104122501

Minimum number of levels = 1

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### USGS 323022104122501 21S.27E.05.41412

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°30'51.1", Longitude 104°12'34.9" NAD83

Land-surface elevation 3,284 feet above NAVD88

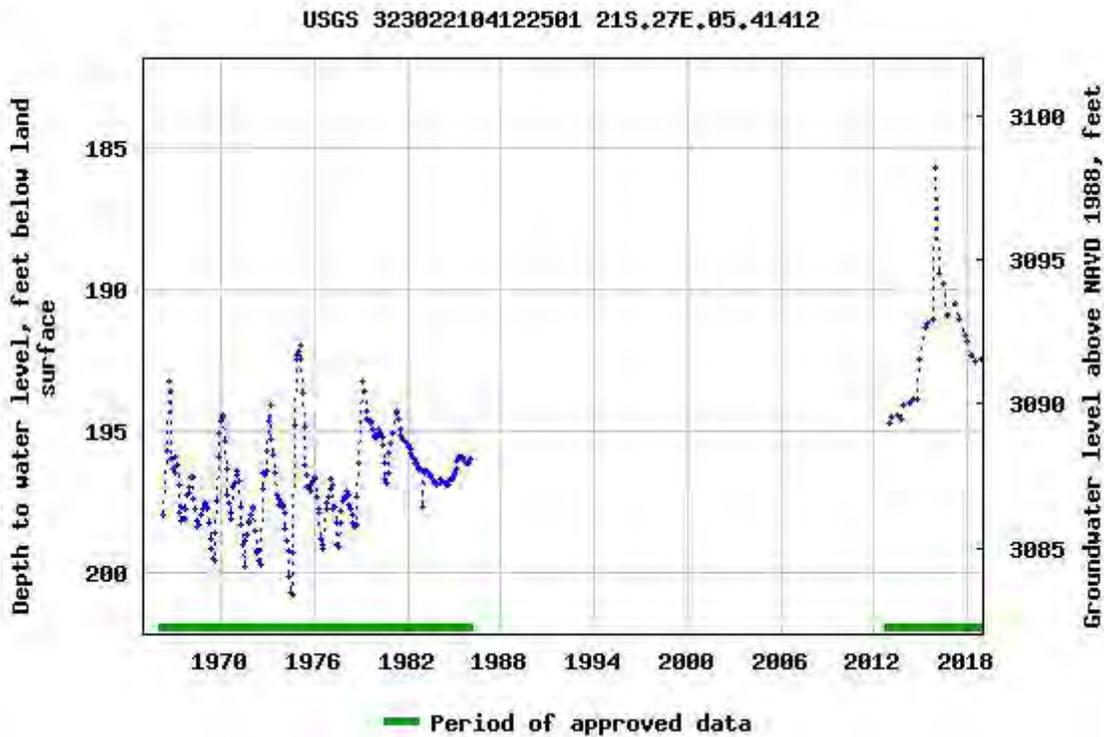
The depth of the well is 2,565 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Capitan Limestone (313CPTN) local aquifer.

#### Output formats

<a href="#">Table of data</a>
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0.7 0.55 nadww02

## **Appendix B Field Data**



### Sample Log

Date: \_\_\_\_\_

Project: ADU 266

Project Number: 20173 Latitude: 32.53901 Longitude: -104.21636

Sample ID	PID/Odor	Chloride Conc.	GPS
WH 1 @ Surf		412	
WH 1 @ 1'		260	
WH 2 @ Surf		292	
WH 2 @ 1'		456	
EH 1 @ Surf		144	
EH 1 @ 1'		120	
EH 2 @ Surf		456	
EH 2 @ 1'		552	
NH 1 @ Surf		144	
NH 1 @ 1'		196	
NH 2 @ Surf		144	
NH 2 @ 1'		412	
SH 1 @ Surf		332	
SH 1 @ 1'		196	
SH 2 @ Surf		ND	
SH 2 @ 1'		260	
SP 1 @ Surf		Higher than 27K	
SP 1 @ 1'		14560	
SP 1 @ 2'		5640	
SP 1 @ 3'		3244	
SP 1 @ 4'		1736	
SP 1 @ 5'		708	
SP 1 @ 6'		368	
SP 2 @ Surf		Higher than 27K	
SP 2 @ 1'		7696	
SP 2 @ 2'		1916	
SP 2 @ 3'		500	
SP 3 @ Surf		Higher than 27K	
SP 3 @ 1'		15212	
SP 3 @ 2'		7116	
SP 3 @ 3'		2744	
SP 3 @ 4'		908	
SP 3 @ 5'		402	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



# **Appendix C**

## **Photographic Log**

### Photographic Log

<b>Photo Number:</b> 1	
<b>Photo Direction:</b> Southwest	
<b>Coordinates:</b> 32.539132,-104.216376	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 2	
<b>Photo Direction:</b> South	
<b>Coordinates:</b> 32.539135,-104.216303	
<b>Photo Description:</b>  View of the affected area.	

### Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area.	

### Photographic Log

<b>Photo Number:</b> 5	 <p>23/05/2024 09:40 +32.539132, -104.216368</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 6	 <p>23/05/2024 09:40 +32.538971, -104.216289</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the excavated area.	

### Photographic Log

<b>Photo Number:</b> 7	 <p>May 30, 2024 at 1:29:00 PM +32.539135, -104.216438 153° SE Altitude: 993.6 meter Speed: 3.7 km/h</p>
<b>Photo Direction:</b> South-Southeast	
<b>Photo Description:</b>  View of the remediated area following backfilling and regrading.	

<b>Photo Number:</b> 8	 <p>May 30, 2024 at 1:29:03 PM +32.539135, -104.216438 114° SE Altitude: 992.7 meter Speed: 0.0 km/h</p>
<b>Photo Direction:</b> East-Southeast	
<b>Photo Description:</b>  View of the remediated area following backfilling and regrading.	

### Photographic Log

<b>Photo Number:</b> 9	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the remediated area following backfilling and regrading.	

<b>Photo Number:</b> 10	
<b>Photo Direction:</b> West-Northwest	
<b>Photo Description:</b>  View of the remediated area following backfilling and regrading.	

### Photographic Log

<b>Photo Number:</b> 11	
<b>Photo Direction:</b> North-Northeast	
<b>Photo Description:</b>  View of the reclaimed area prior to seeding event.	

<b>Photo Number:</b> 12	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the reclaimed area during seeding event.	

### Photographic Log

<b>Photo Number:</b> 13	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the reclaimed area following seeding event.	

<b>Photo Number:</b> 14	
<b>Photo Direction:</b> North-Northeast	
<b>Photo Description:</b>  View of the reclaimed area following seeding event.	

Photographic Log

<b>Photo Number:</b>	15																																																
<b>Photo Direction:</b>	N/A																																																
<b>Photo Description:</b>	<p style="text-align: center;"><b>Bamert Seed Company Inc.</b></p> <p>1897 CR 1018 Muleshoe, TX 79347      (800) 262-9892      Permit # TX00905</p> <p><b>ADU 266 NMSLO Sandy Loam Seed Mix broadcast rate</b>      Lot/Sales # SO-82923</p> <table border="1"> <thead> <tr> <th>Kind &amp; Variety</th> <th>Pure Seed</th> <th>Germ</th> <th>Dormant</th> <th>Hard Seed</th> <th>Origin</th> </tr> </thead> <tbody> <tr> <td>Blanketflower. (Gaillardia aristata)</td> <td>5.29%</td> <td>83.00%</td> <td>0.00%</td> <td>0.00%</td> <td>ND</td> </tr> <tr> <td>Bluestem, Little "Cimarron" (Schizachyrium scoparium)</td> <td>12.73%</td> <td>61.00%</td> <td>25.00%</td> <td>0.00%</td> <td>TX</td> </tr> <tr> <td>Coreopsis, "Lance Leaf" (Coreopsis lanceolata)</td> <td>11.54%</td> <td>56.00%</td> <td>20.00%</td> <td>0.00%</td> <td>OR</td> </tr> <tr> <td>Dropseed, Sand (Sporobolus cryptandrus)</td> <td>4.55%</td> <td>74.00%</td> <td>22.00%</td> <td>0.00%</td> <td>TX</td> </tr> <tr> <td>Flax Blue, (Linum Lewisii)</td> <td>4.51%</td> <td>97.00%</td> <td>0.00%</td> <td>0.00%</td> <td>US</td> </tr> <tr> <td>Gallela, "Viva" (Hilaria jamesii)</td> <td>11.17%</td> <td>88.00%</td> <td>10.00%</td> <td>0.00%</td> <td>TX</td> </tr> <tr> <td>Grama, Blue "Lovington" (Beauveria Gracilis)</td> <td>8.11%</td> <td>91.00%</td> <td>5.00%</td> <td>0.00%</td> <td>TX</td> </tr> </tbody> </table>	Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin	Blanketflower. (Gaillardia aristata)	5.29%	83.00%	0.00%	0.00%	ND	Bluestem, Little "Cimarron" (Schizachyrium scoparium)	12.73%	61.00%	25.00%	0.00%	TX	Coreopsis, "Lance Leaf" (Coreopsis lanceolata)	11.54%	56.00%	20.00%	0.00%	OR	Dropseed, Sand (Sporobolus cryptandrus)	4.55%	74.00%	22.00%	0.00%	TX	Flax Blue, (Linum Lewisii)	4.51%	97.00%	0.00%	0.00%	US	Gallela, "Viva" (Hilaria jamesii)	11.17%	88.00%	10.00%	0.00%	TX	Grama, Blue "Lovington" (Beauveria Gracilis)	8.11%	91.00%	5.00%	0.00%	TX
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Seed tag.

# Appendix D

## Laboratory Analytical Reports



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

July 02, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ADU 226

Enclosed are the results of analyses for samples received by the laboratory on 05/03/24 14:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 @ SURF	H242413-01	Soil	02-May-24 00:00	03-May-24 14:48
SP 1 @ 6'	H242413-02	Soil	02-May-24 00:00	03-May-24 14:48
SP 2 @ SURF	H242413-03	Soil	02-May-24 00:00	03-May-24 14:48
SP 2 @ 3'	H242413-04	Soil	02-May-24 00:00	03-May-24 14:48
SP 3 @ SURF	H242413-05	Soil	02-May-24 00:00	03-May-24 14:48
SP 3 @ 5'	H242413-06	Soil	02-May-24 00:00	03-May-24 14:48
NH 1 @ SURF	H242413-07	Soil	02-May-24 00:00	03-May-24 14:48
NH 1 @ 1'	H242413-08	Soil	02-May-24 00:00	03-May-24 14:48
NH 2 @ SURF	H242413-09	Soil	02-May-24 00:00	03-May-24 14:48
NH 2 @ 1'	H242413-10	Soil	02-May-24 00:00	03-May-24 14:48
EH 1 @ SURF	H242413-11	Soil	02-May-24 00:00	03-May-24 14:48
EH 1 @ 1'	H242413-12	Soil	02-May-24 00:00	03-May-24 14:48
EH 2 @ SURF	H242413-13	Soil	02-May-24 00:00	03-May-24 14:48
EH 2 @ 1'	H242413-14	Soil	02-May-24 00:00	03-May-24 14:48
SH 1 @ SURF	H242413-15	Soil	02-May-24 00:00	03-May-24 14:48
SH 1 @ 1'	H242413-16	Soil	02-May-24 00:00	03-May-24 14:48
SH 2 @ SURF	H242413-17	Soil	02-May-24 00:00	03-May-24 14:48
SH 2 @ 1'	H242413-18	Soil	02-May-24 00:00	03-May-24 14:48
WH 1 @ SURF	H242413-19	Soil	02-May-24 00:00	03-May-24 14:48
WH 1 @ 1'	H242413-20	Soil	02-May-24 00:00	03-May-24 14:48
WH 2 @ SURF	H242413-21	Soil	02-May-24 00:00	03-May-24 14:48
WH 2 @ 1'	H242413-22	Soil	02-May-24 00:00	03-May-24 14:48

07/02/24 - Client changed the project name (see COC). This is the revised report and will replace the one sent on 05/09/24.

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:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**SP 1 @ SURF  
H242413-01 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>52000</b>		16.0	mg/kg	4	4050712	HM	07-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050603	JH	06-May-24	8021B	
Toluene*	<b>0.061</b>		0.050	mg/kg	50	4050603	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050603	JH	06-May-24	8021B	
<b>Total Xylenes*</b>	<b>0.226</b>		0.150	mg/kg	50	4050603	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050603	JH	06-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		71.5-134	4050603	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	4050323	MS	06-May-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4590</b>		50.0	mg/kg	5	4050323	MS	06-May-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1480</b>		50.0	mg/kg	5	4050323	MS	06-May-24	8015B	

Surrogate: 1-Chlorooctane			93.6 %		48.2-134	4050323	MS	06-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			172 %		49.1-148	4050323	MS	06-May-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**SP 1 @ 6'**  
**H242413-02 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050603	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050603	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050603	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050603	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050603	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			91.3 %		71.5-134	4050603	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.0 %		48.2-134	4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			117 %		49.1-148	4050323	MS	06-May-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**SP 2 @ SURF  
H242413-03 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>91200</b>		16.0	mg/kg	4	4050712	HM	07-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>0.058</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Toluene*</b>	<b>0.476</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Ethylbenzene*</b>	<b>0.944</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	QM-07, QR-03
<b>Total Xylenes*</b>	<b>3.33</b>		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total BTEX</b>	<b>4.81</b>		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			156 %		71.5-134	4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>420</b>		50.0	mg/kg	5	4050323	MS	06-May-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>28500</b>		50.0	mg/kg	5	4050323	MS	06-May-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>8720</b>		50.0	mg/kg	5	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			199 %		48.2-134	4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			1050 %		49.1-148	4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**SP 2 @ 3'**  
**H242413-04 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4050712	HM	07-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>19.5</b>		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.8 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %	49.1-148		4050323	MS	06-May-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**SP 3 @ SURF  
H242413-05 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>47200</b>		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>0.083</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Toluene*</b>	<b>0.208</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Ethylbenzene*</b>	<b>0.285</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total Xylenes*</b>	<b>1.35</b>		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total BTEX</b>	<b>1.92</b>		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			150 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>207</b>		50.0	mg/kg	5	4050323	MS	06-May-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>16400</b>		50.0	mg/kg	5	4050323	MS	06-May-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>4830</b>		50.0	mg/kg	5	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			135 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			567 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**SP 3 @ 5'**  
**H242413-06 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.5 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			116 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**NH 1 @ SURF  
H242413-07 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.132</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Toluene*</b>	<b>0.259</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total BTEX</b>	<b>0.391</b>		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.6 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**NH 1 @ 1'  
H242413-08 (Soil)**

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

**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

Surrogate: 1-Chlorooctane			97.4 %	48.2-134		4050323	MS	06-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			115 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**NH 2 @ SURF  
H242413-09 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.111</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Toluene*</b>	<b>0.264</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total BTEX</b>	<b>0.482</b>		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.1 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.0 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**NH 2 @ 1'  
H242413-10 (Soil)**

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

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

Surrogate: 1-Chlorooctane			90.2 %	48.2-134		4050323	MS	06-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**EH 1 @ SURF  
H242413-11 (Soil)**

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

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.083</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Toluene*</b>	<b>0.218</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total BTEX</b>	<b>0.301</b>		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.0 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**EH 1 @ 1'  
H242413-12 (Soil)**

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

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

Surrogate: 1-Chlorooctane			91.6 %	48.2-134		4050323	MS	06-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			108 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**EH 2 @ SURF  
H242413-13 (Soil)**

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

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.178</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Toluene*</b>	<b>0.465</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total Xylenes*</b>	<b>0.182</b>		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total BTEX</b>	<b>0.825</b>		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.9 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			109 %	49.1-148		4050323	MS	06-May-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**EH 2 @ 1'  
H242413-14 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4050712	HM	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.4 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			111 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**SH 1 @ SURF  
H242413-15 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4050704	AC	07-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.083</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Toluene*</b>	<b>0.219</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total BTEX</b>	<b>0.302</b>		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>277</b>		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>184</b>		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.0 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			130 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**SH 1 @ 1'  
H242413-16 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4050704	AC	07-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.2 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			111 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**SH 2 @ SURF  
H242413-17 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4050704	AC	07-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.100</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Toluene*</b>	<b>0.269</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total BTEX</b>	<b>0.503</b>		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.8 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**SH 2 @ 1'  
H242413-18 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4050704	AC	07-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050323	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.2 %	48.2-134		4050323	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			117 %	49.1-148		4050323	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**WH 1 @ SURF  
H242413-19 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4050704	AC	07-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.088</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Toluene*</b>	<b>0.225</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total BTEX</b>	<b>0.313</b>		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			106 %	48.2-134		4050610	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			106 %	49.1-148		4050610	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**WH 1 @ 1'  
H242413-20 (Soil)**

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

**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	4050704	AC	07-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	

Surrogate: 1-Chlorooctane			92.0 %	48.2-134		4050610	MS	06-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			91.3 %	49.1-148		4050610	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**WH 2 @ SURF  
H242413-21 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4050704	AC	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.119</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Toluene*</b>	<b>0.306</b>		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
<b>Total BTEX</b>	<b>0.549</b>		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.0 %	48.2-134		4050610	MS	06-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.3 %	49.1-148		4050610	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**WH 2 @ 1'  
H242413-22 (Soil)**

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

**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	4050704	AC	07-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050604	JH	06-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050604	JH	06-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050604	JH	06-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4050604	JH	06-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4050610	MS	06-May-24	8015B	

Surrogate: 1-Chlorooctane			101 %	48.2-134		4050610	MS	06-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	49.1-148		4050610	MS	06-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4050704 - 1:4 DI Water**

<b>Blank (4050704-BLK1)</b>				Prepared & Analyzed: 07-May-24						
Chloride	ND	16.0	mg/kg							
<b>LCS (4050704-BS1)</b>				Prepared & Analyzed: 07-May-24						
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (4050704-BSD1)</b>				Prepared & Analyzed: 07-May-24						
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	

**Batch 4050712 - 1:4 DI Water**

<b>Blank (4050712-BLK1)</b>				Prepared & Analyzed: 07-May-24						
Chloride	ND	16.0	mg/kg							
<b>LCS (4050712-BS1)</b>				Prepared & Analyzed: 07-May-24						
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (4050712-BSD1)</b>				Prepared & Analyzed: 07-May-24						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4050603 - Volatiles**

**Blank (4050603-BLK1)**

Prepared & Analyzed: 06-May-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		91.0	71.5-134			

**LCS (4050603-BS1)**

Prepared & Analyzed: 06-May-24

Benzene	1.88	0.050	mg/kg	2.00		93.8	82.8-130			
Toluene	1.85	0.050	mg/kg	2.00		92.5	86-128			
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.0	85.9-128			
m,p-Xylene	3.56	0.100	mg/kg	4.00		89.0	89-129			
o-Xylene	1.79	0.050	mg/kg	2.00		89.4	86.1-125			
Total Xylenes	5.35	0.150	mg/kg	6.00		89.2	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0469		mg/kg	0.0500		93.8	71.5-134			

**LCS Dup (4050603-BSD1)**

Prepared & Analyzed: 06-May-24

Benzene	2.00	0.050	mg/kg	2.00		99.9	82.8-130	6.28	15.8	
Toluene	1.97	0.050	mg/kg	2.00		98.5	86-128	6.26	15.9	
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.5	85.9-128	5.78	16	
m,p-Xylene	3.78	0.100	mg/kg	4.00		94.5	89-129	5.94	16.2	
o-Xylene	1.89	0.050	mg/kg	2.00		94.3	86.1-125	5.36	16.7	
Total Xylenes	5.67	0.150	mg/kg	6.00		94.4	88.2-128	5.75	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0463		mg/kg	0.0500		92.7	71.5-134			

**Batch 4050604 - Volatiles**

**Blank (4050604-BLK1)**

Prepared & Analyzed: 06-May-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Caley D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: ADU 226  
Project Number: 20173  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
02-Jul-24 16:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4050604 - Volatiles****Blank (4050604-BLK1)**

Prepared &amp; Analyzed: 06-May-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500		107	71.5-134			

**LCS (4050604-BS1)**

Prepared &amp; Analyzed: 06-May-24

Benzene	1.89	0.050	mg/kg	2.00		94.5	82.8-130			
Toluene	1.93	0.050	mg/kg	2.00		96.5	86-128			
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.9	85.9-128			
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89-129			
o-Xylene	1.90	0.050	mg/kg	2.00		95.0	86.1-125			
Total Xylenes	5.91	0.150	mg/kg	6.00		98.5	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	71.5-134			

**LCS Dup (4050604-BSD1)**

Prepared &amp; Analyzed: 06-May-24

Benzene	2.00	0.050	mg/kg	2.00		100	82.8-130	5.80	15.8	
Toluene	2.05	0.050	mg/kg	2.00		102	86-128	6.06	15.9	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128	5.97	16	
m,p-Xylene	4.26	0.100	mg/kg	4.00		107	89-129	6.09	16.2	
o-Xylene	2.02	0.050	mg/kg	2.00		101	86.1-125	5.99	16.7	
Total Xylenes	6.28	0.150	mg/kg	6.00		105	88.2-128	6.06	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	71.5-134			

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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4050323 - General Prep - Organics**

<b>Blank (4050323-BLK1)</b>		Prepared: 03-May-24 Analyzed: 06-May-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.0		mg/kg	50.0		83.9	48.2-134			
Surrogate: 1-Chlorooctadecane	48.3		mg/kg	50.0		96.6	49.1-148			

<b>LCS (4050323-BS1)</b>		Prepared: 03-May-24 Analyzed: 06-May-24								
GRO C6-C10	200	10.0	mg/kg	200		100	66.4-123			
DRO >C10-C28	200	10.0	mg/kg	200		99.9	66.5-118			
Total TPH C6-C28	400	10.0	mg/kg	400		100	77.6-123			
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.9	48.2-134			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	49.1-148			

<b>LCS Dup (4050323-BS1)</b>		Prepared: 03-May-24 Analyzed: 06-May-24								
GRO C6-C10	194	10.0	mg/kg	200		97.1	66.4-123	3.08	17.7	
DRO >C10-C28	192	10.0	mg/kg	200		95.9	66.5-118	4.15	21	
Total TPH C6-C28	386	10.0	mg/kg	400		96.5	77.6-123	3.61	18.5	
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.8	48.2-134			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	49.1-148			

**Batch 4050610 - General Prep - Organics**

<b>Blank (4050610-BLK1)</b>		Prepared & Analyzed: 06-May-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.4	48.2-134			
Surrogate: 1-Chlorooctadecane	46.3		mg/kg	50.0		92.6	49.1-148			

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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 16:01
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4050610 - General Prep - Organics**

<b>LCS (4050610-BS1)</b>		Prepared & Analyzed: 06-May-24								
GRO C6-C10	203	10.0	mg/kg	200		101	66.4-123			
DRO >C10-C28	204	10.0	mg/kg	200		102	66.5-118			
Total TPH C6-C28	407	10.0	mg/kg	400		102	77.6-123			
Surrogate: 1-Chlorooctane	52.6		mg/kg	50.0		105	48.2-134			
Surrogate: 1-Chlorooctadecane	55.9		mg/kg	50.0		112	49.1-148			
<b>LCS Dup (4050610-BSD1)</b>		Prepared & Analyzed: 06-May-24								
GRO C6-C10	210	10.0	mg/kg	200		105	66.4-123	3.52	17.7	
DRO >C10-C28	208	10.0	mg/kg	200		104	66.5-118	1.86	21	
Total TPH C6-C28	418	10.0	mg/kg	400		104	77.6-123	2.69	18.5	
Surrogate: 1-Chlorooctane	61.3		mg/kg	50.0		123	48.2-134			
Surrogate: 1-Chlorooctadecane	65.8		mg/kg	50.0		132	49.1-148			

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celest D. Keene

Celey D. Keene, Lab Director/Quality Manager









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

July 02, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ADU 226

Enclosed are the results of analyses for samples received by the laboratory on 05/22/24 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL 1 @ 8.5'	H242818-01	Soil	21-May-24 00:00	22-May-24 08:05
FL 2 @ 8.5'	H242818-02	Soil	21-May-24 00:00	22-May-24 08:05
FL 3 @ 4'	H242818-03	Soil	21-May-24 00:00	22-May-24 08:05
FL 4 @ 4'	H242818-04	Soil	21-May-24 00:00	22-May-24 08:05
WW 1	H242818-05	Soil	21-May-24 00:00	22-May-24 08:05
WW 2	H242818-06	Soil	21-May-24 00:00	22-May-24 08:05
SW 1	H242818-07	Soil	21-May-24 00:00	22-May-24 08:05
SW 2	H242818-08	Soil	21-May-24 00:00	22-May-24 08:05
EW 1	H242818-09	Soil	21-May-24 00:00	22-May-24 08:05

07/02/24 - Client changed the project name (see COC). This is the revised report and will replace the one sent on 05/23/24.

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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**FL 1 @ 8.5'**  
**H242818-01 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	4052221	CT	22-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		71.5-134	4052129	MS	22-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	

Surrogate: 1-Chlorooctane			78.9 %		48.2-134	4052207	MS	22-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			94.1 %		49.1-148	4052207	MS	22-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**FL 2 @ 8.5'**  
**H242818-02 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	4052221	CT	22-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		4052129	MS	22-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.3 %	48.2-134		4052207	MS	22-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %	49.1-148		4052207	MS	22-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**FL 3 @ 4'  
H242818-03 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4052221	CT	22-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4052129	MS	22-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.7 %	48.2-134		4052207	MS	22-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	49.1-148		4052207	MS	22-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**FL 4 @ 4'**  
**H242818-04 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4052221	CT	22-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4052129	MS	22-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.9 %	48.2-134		4052207	MS	22-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.6 %	49.1-148		4052207	MS	22-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**WW 1  
H242818-05 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4052221	CT	22-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		4052129	MS	22-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.5 %	48.2-134		4052207	MS	22-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			100 %	49.1-148		4052207	MS	22-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**WW 2  
H242818-06 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4052221	CT	22-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		71.5-134	4052129	MS	22-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>19.7</b>		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.3 %		48.2-134	4052207	MS	22-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			115 %		49.1-148	4052207	MS	22-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**SW 1**

**H242818-07 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4052221	CT	22-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		4052129	MS	22-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.3 %	48.2-134		4052207	MS	22-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.8 %	49.1-148		4052207	MS	22-May-24	8015B	
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**SW 2  
H242818-08 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	4052221	CT	22-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		71.5-134	4052129	MS	22-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.4 %		48.2-134	4052207	MS	22-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.8 %		49.1-148	4052207	MS	22-May-24	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**EW 1  
H242818-09 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	4052221	CT	22-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		4052129	MS	22-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052207	MS	22-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.3 %	48.2-134		4052207	MS	22-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %	49.1-148		4052207	MS	22-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4052221 - 1:4 DI Water</b>										
<b>Blank (4052221-BLK1)</b>										
Prepared & Analyzed: 22-May-24										
Chloride	ND	16.0	mg/kg							
<b>LCS (4052221-BS1)</b>										
Prepared & Analyzed: 22-May-24										
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (4052221-BSD1)</b>										
Prepared & Analyzed: 22-May-24										
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4052129 - Volatiles**

**Blank (4052129-BLK1)**

Prepared: 21-May-24 Analyzed: 22-May-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0556		mg/kg	0.0500		111	71.5-134			

**LCS (4052129-BS1)**

Prepared: 21-May-24 Analyzed: 22-May-24

Benzene	1.72	0.050	mg/kg	2.00		86.1	82.8-130			
Toluene	1.77	0.050	mg/kg	2.00		88.3	86-128			
Ethylbenzene	1.80	0.050	mg/kg	2.00		89.9	85.9-128			
m,p-Xylene	3.62	0.100	mg/kg	4.00		90.6	89-129			
o-Xylene	1.80	0.050	mg/kg	2.00		90.2	86.1-125			
Total Xylenes	5.43	0.150	mg/kg	6.00		90.4	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.6	71.5-134			

**LCS Dup (4052129-BSD1)**

Prepared: 21-May-24 Analyzed: 22-May-24

Benzene	1.74	0.050	mg/kg	2.00		87.0	82.8-130	1.06	15.8	
Toluene	1.79	0.050	mg/kg	2.00		89.4	86-128	1.25	15.9	
Ethylbenzene	1.82	0.050	mg/kg	2.00		90.8	85.9-128	1.03	16	
m,p-Xylene	3.70	0.100	mg/kg	4.00		92.5	89-129	2.09	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.3	86.1-125	2.28	16.7	
Total Xylenes	5.55	0.150	mg/kg	6.00		92.4	88.2-128	2.16	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	71.5-134			

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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:57
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4052207 - General Prep - Organics**

**Blank (4052207-BLK1)** Prepared & Analyzed: 22-May-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	54.5		mg/kg	50.0		109	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	68.1		mg/kg	50.0		136	49.1-148			

**LCS (4052207-BS1)** Prepared & Analyzed: 22-May-24

GRO C6-C10	189	10.0	mg/kg	200		94.6	66.4-123			
DRO >C10-C28	183	10.0	mg/kg	200		91.3	66.5-118			
Total TPH C6-C28	372	10.0	mg/kg	400		93.0	77.6-123			
<i>Surrogate: 1-Chlorooctane</i>	56.5		mg/kg	50.0		113	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	69.3		mg/kg	50.0		139	49.1-148			

**LCS Dup (4052207-BSD1)** Prepared & Analyzed: 22-May-24

GRO C6-C10	190	10.0	mg/kg	200		95.2	66.4-123	0.610	17.7	
DRO >C10-C28	180	10.0	mg/kg	200		90.0	66.5-118	1.46	21	
Total TPH C6-C28	370	10.0	mg/kg	400		92.6	77.6-123	0.401	18.5	
<i>Surrogate: 1-Chlorooctane</i>	50.5		mg/kg	50.0		101	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	62.8		mg/kg	50.0		126	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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

July 02, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ADU 226

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 8:51.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL 5 @ 4'	H242862-01	Soil	22-May-24 00:00	23-May-24 08:51
FL 6 @ 4'	H242862-02	Soil	22-May-24 00:00	23-May-24 08:51
FL 7 @ 4'	H242862-03	Soil	22-May-24 00:00	23-May-24 08:51
FL 8 @ 6'	H242862-04	Soil	22-May-24 00:00	23-May-24 08:51
FL 9 @ 6'	H242862-05	Soil	22-May-24 00:00	23-May-24 08:51
FL 10 @ 6'	H242862-06	Soil	22-May-24 00:00	23-May-24 08:51
FL 11 @ 6'	H242862-07	Soil	22-May-24 00:00	23-May-24 08:51
FL 12 @ 6'	H242862-08	Soil	22-May-24 00:00	23-May-24 08:51
NW 1	H242862-09	Soil	22-May-24 00:00	23-May-24 08:51
NW 2	H242862-10	Soil	22-May-24 00:00	23-May-24 08:51
EW 2	H242862-11	Soil	22-May-24 00:00	23-May-24 08:51

07/02/24 - Client changed the project name (see COC). This is the revised report and will replace the one sent on 05/24/24.

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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**FL 5 @ 4'  
H242862-01 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4052340	CT	23-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052308	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052308	MS	24-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %		71.5-134	4052308	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052307	MS	23-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052307	MS	23-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052307	MS	23-May-24	8015B	

Surrogate: 1-Chlorooctane			101 %		48.2-134	4052307	MS	23-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			97.9 %		49.1-148	4052307	MS	23-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**FL 6 @ 4'**  
**H242862-02 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4052340	CT	23-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052308	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052308	MS	24-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %	71.5-134		4052308	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052307	MS	23-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052307	MS	23-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052307	MS	23-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			100 %	48.2-134		4052307	MS	23-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.4 %	49.1-148		4052307	MS	23-May-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**FL 7 @ 4'**  
**H242862-03 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4052340	CT	23-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052308	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052308	MS	24-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		4052308	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052307	MS	24-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052307	MS	24-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052307	MS	24-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			71.9 %	48.2-134		4052307	MS	24-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			67.1 %	49.1-148		4052307	MS	24-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**FL 8 @ 6'**  
**H242862-04 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4052340	CT	23-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052308	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052308	MS	24-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		4052308	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %	48.2-134		4052310	MS	24-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.7 %	49.1-148		4052310	MS	24-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**FL 9 @ 6'**  
**H242862-05 (Soil)**

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

**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	4052331	HM	23-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052308	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052308	MS	24-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4052308	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	

Surrogate: 1-Chlorooctane			102 %	48.2-134		4052310	MS	24-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			98.9 %	49.1-148		4052310	MS	24-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**FL 10 @ 6'  
H242862-06 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4052331	HM	23-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052308	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052308	MS	24-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %	71.5-134		4052308	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			116 %	48.2-134		4052310	MS	24-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			114 %	49.1-148		4052310	MS	24-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**FL 11 @ 6'**  
**H242862-07 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4052331	HM	23-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052308	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052308	MS	24-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4052308	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			107 %	48.2-134		4052310	MS	24-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	49.1-148		4052310	MS	24-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**FL 12 @ 6'  
H242862-08 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4052331	HM	23-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052308	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052308	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052308	MS	24-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4052308	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.9 %	48.2-134		4052310	MS	24-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.7 %	49.1-148		4052310	MS	24-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**NW 1  
H242862-09 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4052331	HM	23-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052321	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052321	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052321	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052321	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052321	MS	24-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		4052321	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			114 %	48.2-134		4052310	MS	24-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %	49.1-148		4052310	MS	24-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**NW 2  
H242862-10 (Soil)**

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

**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4052331	HM	23-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052321	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052321	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052321	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052321	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052321	MS	24-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4052321	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	

Surrogate: 1-Chlorooctane			115 %	48.2-134		4052310	MS	24-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	49.1-148		4052310	MS	24-May-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**EW 2  
H242862-11 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4052331	HM	23-May-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052321	MS	24-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052321	MS	24-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052321	MS	24-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052321	MS	24-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052321	MS	24-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		71.5-134	4052321	MS	24-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052310	MS	24-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.0 %		48.2-134	4052310	MS	24-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.1 %		49.1-148	4052310	MS	24-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4052331 - 1:4 DI Water</b>										
<b>Blank (4052331-BLK1)</b> Prepared & Analyzed: 23-May-24										
Chloride	ND	16.0	mg/kg							
<b>LCS (4052331-BS1)</b> Prepared & Analyzed: 23-May-24										
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (4052331-BSD1)</b> Prepared & Analyzed: 23-May-24										
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
<b>Batch 4052340 - 1:4 DI Water</b>										
<b>Blank (4052340-BLK1)</b> Prepared & Analyzed: 23-May-24										
Chloride	ND	16.0	mg/kg							
<b>LCS (4052340-BS1)</b> Prepared & Analyzed: 23-May-24										
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (4052340-BSD1)</b> Prepared & Analyzed: 23-May-24										
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4052308 - Volatiles**

**Blank (4052308-BLK1)**

Prepared: 23-May-24 Analyzed: 24-May-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0552		mg/kg	0.0500		110	71.5-134			

**LCS (4052308-BS1)**

Prepared: 23-May-24 Analyzed: 24-May-24

Benzene	1.95	0.050	mg/kg	2.00		97.4	82.8-130			
Toluene	1.96	0.050	mg/kg	2.00		98.2	86-128			
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.4	85.9-128			
m,p-Xylene	3.92	0.100	mg/kg	4.00		98.1	89-129			
o-Xylene	1.97	0.050	mg/kg	2.00		98.7	86.1-125			
Total Xylenes	5.90	0.150	mg/kg	6.00		98.3	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	71.5-134			

**LCS Dup (4052308-BSD1)**

Prepared: 23-May-24 Analyzed: 24-May-24

Benzene	1.97	0.050	mg/kg	2.00		98.7	82.8-130	1.31	15.8	
Toluene	1.97	0.050	mg/kg	2.00		98.7	86-128	0.459	15.9	
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.9	85.9-128	0.511	16	
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.2	89-129	0.153	16.2	
o-Xylene	1.97	0.050	mg/kg	2.00		98.4	86.1-125	0.305	16.7	
Total Xylenes	5.90	0.150	mg/kg	6.00		98.3	88.2-128	0.000323	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	71.5-134			

**Batch 4052321 - Volatiles**

**Blank (4052321-BLK1)**

Prepared & Analyzed: 23-May-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: ADU 226  
Project Number: 20173  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
02-Jul-24 15:55

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4052321 - Volatiles****Blank (4052321-BLK1)**

Prepared &amp; Analyzed: 23-May-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0543		mg/kg	0.0500		109	71.5-134			

**LCS (4052321-BS1)**

Prepared &amp; Analyzed: 23-May-24

Benzene	2.24	0.050	mg/kg	2.00		112	82.8-130			
Toluene	2.13	0.050	mg/kg	2.00		106	86-128			
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	85.9-128			
m,p-Xylene	4.21	0.100	mg/kg	4.00		105	89-129			
o-Xylene	2.13	0.050	mg/kg	2.00		107	86.1-125			
Total Xylenes	6.34	0.150	mg/kg	6.00		106	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0471		mg/kg	0.0500		94.3	71.5-134			

**LCS Dup (4052321-BSD1)**

Prepared &amp; Analyzed: 23-May-24

Benzene	2.23	0.050	mg/kg	2.00		112	82.8-130	0.304	15.8	
Toluene	2.19	0.050	mg/kg	2.00		109	86-128	2.69	15.9	
Ethylbenzene	2.19	0.050	mg/kg	2.00		109	85.9-128	1.83	16	
m,p-Xylene	4.26	0.100	mg/kg	4.00		106	89-129	1.27	16.2	
o-Xylene	2.17	0.050	mg/kg	2.00		109	86.1-125	1.96	16.7	
Total Xylenes	6.43	0.150	mg/kg	6.00		107	88.2-128	1.50	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.6	71.5-134			

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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4052307 - General Prep - Organics**

<b>Blank (4052307-BLK1)</b>		Prepared & Analyzed: 23-May-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	62.2		mg/kg	50.0		124	48.2-134			
Surrogate: 1-Chlorooctadecane	62.8		mg/kg	50.0		126	49.1-148			

<b>LCS (4052307-BS1)</b>		Prepared & Analyzed: 23-May-24								
GRO C6-C10	190	10.0	mg/kg	200		95.0	66.4-123			
DRO >C10-C28	196	10.0	mg/kg	200		98.2	66.5-118			
Total TPH C6-C28	386	10.0	mg/kg	400		96.6	77.6-123			
Surrogate: 1-Chlorooctane	67.5		mg/kg	50.0		135	48.2-134			S-05
Surrogate: 1-Chlorooctadecane	67.0		mg/kg	50.0		134	49.1-148			

<b>LCS Dup (4052307-BSD1)</b>		Prepared & Analyzed: 23-May-24								
GRO C6-C10	191	10.0	mg/kg	200		95.7	66.4-123	0.731	17.7	
DRO >C10-C28	193	10.0	mg/kg	200		96.3	66.5-118	1.90	21	
Total TPH C6-C28	384	10.0	mg/kg	400		96.0	77.6-123	0.595	18.5	
Surrogate: 1-Chlorooctane	67.0		mg/kg	50.0		134	48.2-134			
Surrogate: 1-Chlorooctadecane	70.3		mg/kg	50.0		141	49.1-148			

**Batch 4052310 - General Prep - Organics**

<b>Blank (4052310-BLK1)</b>		Prepared & Analyzed: 23-May-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	61.7		mg/kg	50.0		123	48.2-134			
Surrogate: 1-Chlorooctadecane	61.9		mg/kg	50.0		124	49.1-148			

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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:55
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4052310 - General Prep - Organics**

<b>LCS (4052310-BS1)</b>		Prepared & Analyzed: 23-May-24								
GRO C6-C10	222	10.0	mg/kg	200		111	66.4-123			
DRO >C10-C28	210	10.0	mg/kg	200		105	66.5-118			
Total TPH C6-C28	432	10.0	mg/kg	400		108	77.6-123			
Surrogate: 1-Chlorooctane	69.5		mg/kg	50.0		139	48.2-134			S-05
Surrogate: 1-Chlorooctadecane	68.5		mg/kg	50.0		137	49.1-148			

<b>LCS Dup (4052310-BSD1)</b>		Prepared & Analyzed: 23-May-24								
GRO C6-C10	209	10.0	mg/kg	200		105	66.4-123	5.74	17.7	
DRO >C10-C28	213	10.0	mg/kg	200		106	66.5-118	1.32	21	
Total TPH C6-C28	422	10.0	mg/kg	400		106	77.6-123	2.25	18.5	
Surrogate: 1-Chlorooctane	67.0		mg/kg	50.0		134	48.2-134			
Surrogate: 1-Chlorooctadecane	65.6		mg/kg	50.0		131	49.1-148			

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Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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

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

Company Name: Etech Environmental & Safety Solutions, Inc.		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
Project Manager: Lance Crenshaw		P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)																		
Address: 2617 W Marland		Company <b>SEE REMARKS</b>																								
City: Hobbs State: NM Zip: 88240		Attn:																								
Phone #: (575) 264-9884 Fax #:		Address:																								
Project #: 20173 Project Owner: XTO		City:																								
Project Name: ADU 266 226 *		State: NM Zip:																								
Project Location: 32.53901, -104.21636		Phone #:																								
Sampler Name: Dominic Casarez		Fax #:																								
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL				OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
H242862																										
1	FL 5 @ 4'	C 1			X					X		5/22/24		X	X	X										
2	FL 6 @ 4'	C 1			X					X		5/22/24		X	X	X										
3	FL 7 @ 4'	C 1			X					X		5/22/24		X	X	X										
4	FL 8 @ 6'	C 1			X					X		5/22/24		X	X	X										
5	FL 9 @ 6'	C 1			X					X		5/22/24		X	X	X										
6	FL 10 @ 6'	C 1			X					X		5/22/24		X	X	X										
7	FL 11 @ 6'	C 1			X					X		5/22/24		X	X	X										
8	FL 12 @ 6'	C 1			X					X		5/22/24		X	X	X										
9	NW 1	C 1			X					X		5/22/24		X	X	X										
10	NW 2	C 1			X					X		5/22/24		X	X	X										
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Relinquished By: <i>[Signature]</i>		Date: 5-23-24		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS: * Customer Requested name change. T.O. 7/11/24																
Relinquished By:		Time: 0851		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																		
Delivered By: (Circle One)		#140		Sample Condition		CHECKED BY: (Initials)		<b>RUSH SAMPLES - 24 HOUR</b> Bill analytical charges to XTO C/O Amy Ruth. Bill rush charges to Etech C/O Lance Crenshaw. Please email results and copy of CoC to pm@etechenv.com.																		
Sampler - UPS - Bus - Other:		-4.8 c		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		T.O.																				





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

July 02, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ADU 226

Enclosed are the results of analyses for samples received by the laboratory on 05/29/24 14:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:51
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
STOCKPILE	H242993-01	Soil	28-May-24 00:00	29-May-24 14:58

07/02/24 - Client changed the project name (see COC). This is the revised report and will replace the one sent on 05/30/24.

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:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:51
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**STOCKPILE  
H242993-01 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	4053008	HM	30-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052939	JH	29-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052939	JH	29-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052939	JH	29-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052939	JH	29-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052939	JH	29-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4052939	JH	29-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052928	MS	30-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052928	MS	30-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052928	MS	30-May-24	8015B	

Surrogate: 1-Chlorooctane			113 %	48.2-134		4052928	MS	30-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			121 %	49.1-148		4052928	MS	30-May-24	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:51
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4053008 - 1:4 DI Water</b>										
<b>Blank (4053008-BLK1)</b>										
Prepared & Analyzed: 30-May-24										
Chloride	ND	16.0	mg/kg							
<b>LCS (4053008-BS1)</b>										
Prepared & Analyzed: 30-May-24										
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (4053008-BSD1)</b>										
Prepared & Analyzed: 30-May-24										
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	

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**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:51
---	---	------------------------------

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

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4052939 - Volatiles**

**Blank (4052939-BLK1)**

Prepared & Analyzed: 29-May-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0537		mg/kg	0.0500		107	71.5-134			

**LCS (4052939-BS1)**

Prepared & Analyzed: 29-May-24

Benzene	1.95	0.050	mg/kg	2.00		97.4	82.8-130			
Toluene	2.09	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.32	0.100	mg/kg	4.00		108	89-129			
o-Xylene	2.07	0.050	mg/kg	2.00		104	86.1-125			
Total Xylenes	6.40	0.150	mg/kg	6.00		107	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	71.5-134			

**LCS Dup (4052939-BSD1)**

Prepared & Analyzed: 29-May-24

Benzene	1.84	0.050	mg/kg	2.00		92.0	82.8-130	5.67	15.8	
Toluene	1.98	0.050	mg/kg	2.00		99.1	86-128	5.29	15.9	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	85.9-128	5.45	16	
m,p-Xylene	4.13	0.100	mg/kg	4.00		103	89-129	4.66	16.2	
o-Xylene	1.97	0.050	mg/kg	2.00		98.6	86.1-125	4.96	16.7	
Total Xylenes	6.10	0.150	mg/kg	6.00		102	88.2-128	4.76	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: ADU 226 Project Number: 20173 Project Manager: LANCE CRENSHAW Fax To:	Reported: 02-Jul-24 15:51
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4052928 - General Prep - Organics**

<b>Blank (4052928-BLK1)</b>		Prepared & Analyzed: 29-May-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	49.0		mg/kg	50.0		98.1	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	54.4		mg/kg	50.0		109	49.1-148			

<b>LCS (4052928-BS1)</b>		Prepared & Analyzed: 29-May-24								
GRO C6-C10	221	10.0	mg/kg	200		111	66.4-123			
DRO >C10-C28	218	10.0	mg/kg	200		109	66.5-118			
Total TPH C6-C28	439	10.0	mg/kg	400		110	77.6-123			
<i>Surrogate: 1-Chlorooctane</i>	53.1		mg/kg	50.0		106	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	56.5		mg/kg	50.0		113	49.1-148			

<b>LCS Dup (4052928-BSD1)</b>		Prepared & Analyzed: 29-May-24								
GRO C6-C10	220	10.0	mg/kg	200		110	66.4-123	0.609	17.7	
DRO >C10-C28	214	10.0	mg/kg	200		107	66.5-118	2.13	21	
Total TPH C6-C28	434	10.0	mg/kg	400		108	77.6-123	1.36	18.5	
<i>Surrogate: 1-Chlorooctane</i>	53.4		mg/kg	50.0		107	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	60.6		mg/kg	50.0		121	49.1-148			

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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



# **Appendix E**

## **Regulatory Correspondence**

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Romero, Alan](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 344628  
**Date:** Wednesday, May 15, 2024 11:16:21 AM

---

To whom it may concern (c/o Alan Romero for XTO ENERGY, INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409551506.

The sampling event is expected to take place:

**When:** 05/17/2024 @ 08:00

**Where:** O-30-20S-28E 0 FNL 0 FEL (32.53901,-104.21636)

**Additional Information:** Dominic Casarez, dominic@etechnv.com, 432-813-1036

**Additional Instructions:** From the intersection of Alkali Rd and Co Rd 206 (32.516882, -104.226403), head N on Co Rd 206 for 0.81 mi, then E for 0.02 mi, then NE for 1.02 mi, then NW for 0.19 mi, then NW for 0.07 mi, then NE into the pasture for 0.01 mi to arrive at the ADU 266 release area (32.53901, -104.21636).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Romero, Alan](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 344632  
**Date:** Wednesday, May 15, 2024 11:21:18 AM

---

To whom it may concern (c/o Alan Romero for XTO ENERGY, INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409551506.

The sampling event is expected to take place:

**When:** 05/20/2024 @ 08:00

**Where:** O-30-20S-28E 0 FNL 0 FEL (32.53901,-104.21636)

**Additional Information:** Dominic Casarez, dominic@etechnv.com, 432-813-1036

**Additional Instructions:** From the intersection of Alkali Rd and Co Rd 206 (32.516882, -104.226403), head N on Co Rd 206 for 0.81 mi, then E for 0.02 mi, then NE for 1.02 mi, then NW for 0.19 mi, then NW for 0.07 mi, then NE into the pasture for 0.01 mi to arrive at the ADU 266 release area (32.53901, -104.21636).

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- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Romero, Alan](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 344633  
**Date:** Wednesday, May 15, 2024 11:22:31 AM

---

To whom it may concern (c/o Alan Romero for XTO ENERGY, INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409551506.

The sampling event is expected to take place:

**When:** 05/21/2024 @ 08:00

**Where:** O-30-20S-28E 0 FNL 0 FEL (32.53901,-104.21636)

**Additional Information:** Dominic Casarez, dominic@etechnv.com, 432-813-1036

**Additional Instructions:** From the intersection of Alkali Rd and Co Rd 206 (32.516882, -104.226403), head N on Co Rd 206 for 0.81 mi, then E for 0.02 mi, then NE for 1.02 mi, then NW for 0.19 mi, then NW for 0.07 mi, then NE into the pasture for 0.01 mi to arrive at the ADU 266 release area (32.53901, -104.21636).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Romero, Alan](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 344634  
**Date:** Wednesday, May 15, 2024 11:23:52 AM

---

To whom it may concern (c/o Alan Romero for XTO ENERGY, INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409551506.

The sampling event is expected to take place:

**When:** 05/22/2024 @ 08:00

**Where:** O-30-20S-28E 0 FNL 0 FEL (32.53901,-104.21636)

**Additional Information:** Dominic Casarez, dominic@etechnv.com, 432-813-1036

**Additional Instructions:** From the intersection of Alkali Rd and Co Rd 206 (32.516882, -104.226403), head N on Co Rd 206 for 0.81 mi, then E for 0.02 mi, then NE for 1.02 mi, then NW for 0.19 mi, then NW for 0.07 mi, then NE into the pasture for 0.01 mi to arrive at the ADU 266 release area (32.53901, -104.21636).

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- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

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**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**Appendix F**  
**NMCRIS Investigation Abstract Form (NIAF)**

# NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity Number: 155585**

**HPD Log No(s).**

## Registration

**Lead Agency:** NM State Land Office

**Performing Agency:** SWCA Environmental Consultants

**Activity ID:** 89967

**Performing Agency Report No:** 24-388

**Other Agencies:**

**Report Recipient (Your Client):** eTech Environmental & Safety Solutions

- Activity Types:**
- Research Design  Archaeological Survey/Inventory
  - Architectural Survey/Inventory  Test Excavation  Monitoring
  - Collections/Non-Field Study  Compliance Decision
  - Literature Review Overview  Excavation  Ethnographic Study
  - Resource/Property Visit  Historic Structures Report
  - Other:

**Total Survey Acreage:** 1.13

**Total Tribal Acreage:** 0.00

**Total Resources Visited:** 0

# NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity Number: 155585**

**HPD Log No(s).**

**Associate/Register Resources**

---

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
--------	--------	-------------------------	--------	---------------	-------------------	---------

Report run on: May 21, 2024 03:58 PM

## NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity Number: 155585**
**HPD Log No(s).**

### Report Details

**Type of Report**
**Type of Report:** Negative

**Lead Agency**
**Lead Agency:** NM State Land Office

**Lead Agency Report No.**
**Report Number:**
**Title of Report**
**Title of Report:** A Cultural Resources Inventory for the XTO ADU 266 Inadvertent Pipeline Release Remediation Project in Eddy County, New Mexico

**Authors:** Cory Green and Ad A. Muniz

**Publication Type:** Report, Monograph, or Book

**Description of Undertaking (what does the project entail?)**

**Description:** ETech Environmental & Safety Solutions (ETech) contracted SWCA Environmental Consultants (SWCA) to conduct an intensive cultural resources pedestrian survey in support of the XTO Energy ADU 266 inadvertent pipeline release remediation project in Eddy County, New Mexico. The remediation process will require removing impacted sediments from the contaminated area and replacing them with clean soil. The inadvertent release covers approximately 0.04 acre (0.02 ha) with the full remediation area covering 1.13 acre (0.46 ha). The inadvertent release is located on lands managed by the New Mexico State Land Office (NMSLO). The NMSLO will serve as the lead agency.

**Dates of Investigation**
**From:** 13-May-2024 **To:** 13-May-2024

**Report Date**
**Report Date:** 21-May-2024

**Performing Agency/Consultant**
**Name:** SWCA Environmental Consultants

**Principal Investigator:** Meaghan Trowbridge

**Field Supervisor:** Ad Muniz

**Field Personnel Names:** N/A

**Historian/Other:** N/A

## NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity Number: 155585**

**HPD Log No(s).**

### Report Details

Performing Agency Report Number

**Report Number:** 24-388

Client/Customer (project proponent)

**Name:** eTech Environmental & Safety Solutions

**Contact:** Lance Crenshaw

**Address:** 13000 WCR 100, Odessa Texas, 79765

**Phone** 423-563-2200

Client/Customer Project Number

**Project Number:** N/A

## NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity Number: 155585**

**HPD Log No(s).**

**Ownership & Location**

Land Ownership Status (Must be indicated on Project Map)

**Owner/Manager List:**

Land Owner/Manager	Protocol	Acres Surveyed	Acres in APE
NM State Land Office	Class III	1.13	1.13

**Total Survey Acreage:** 1.13

**Total Tribal Acreage:** 0.00

Record Search(es)

**Date of HPD/ARMS File Review:** 07-May-2024

**Date of Other Agency File Review**

Survey Data

**Source Graphics:** NAD 83

USGS 7.5' (1:24,000) topo map     Other Topo Map    Scale:

GPS Unit <1M

Aerial Photos    Other Source Graphic(s):

**The following tables (b,c,& e) are calculated by the NMCRIS Map Service**

USGS 7.5' Topographic    County(ies)    Legal Description  
Map(s)

Map Name	USGS Quad Code	County	FIPS	Unplatted	Township (N/S)	Range (E/W)	Section
Angel Draw, NM	32104-E2	EDDY	35015	No	T20S	R28E	30

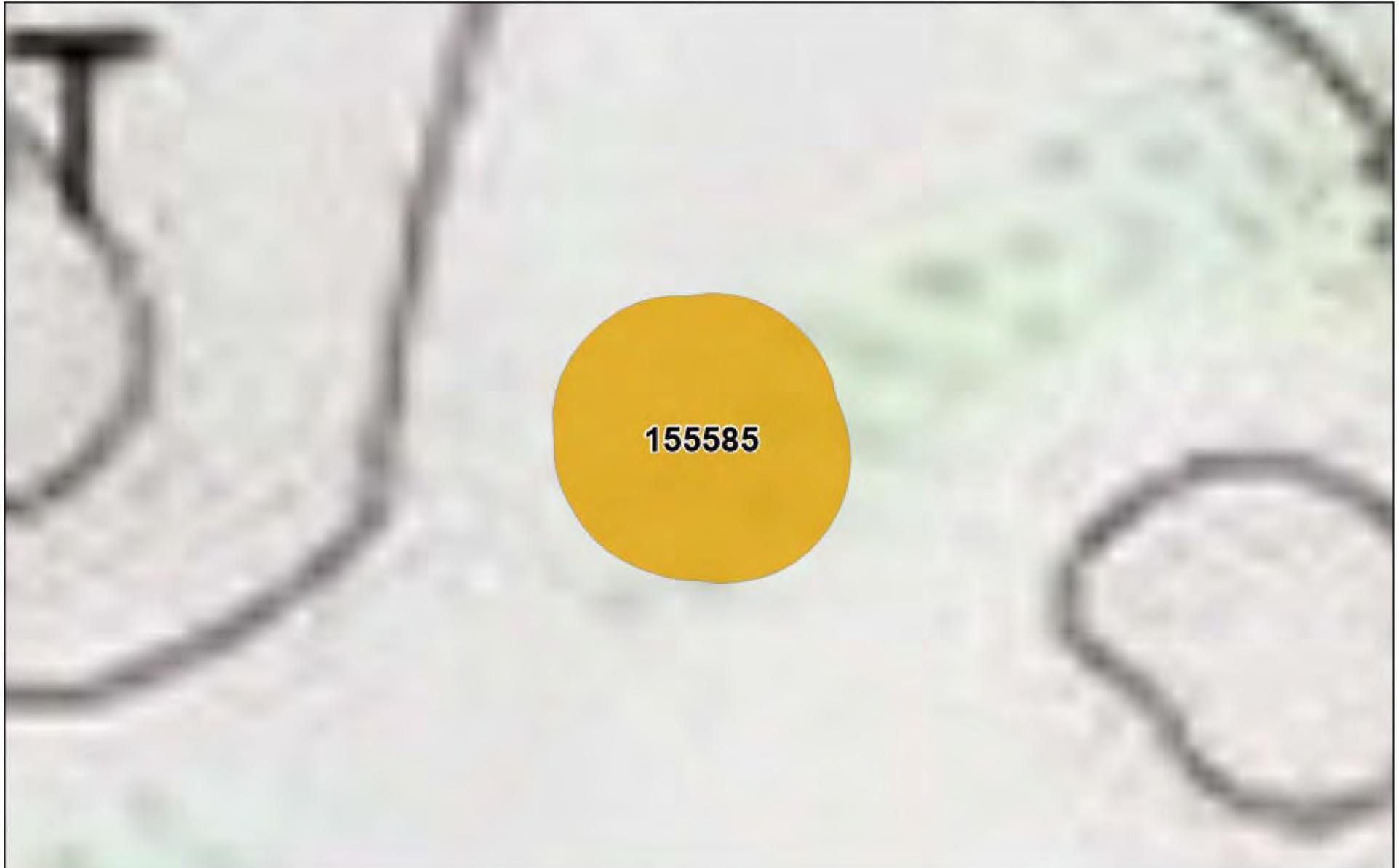
Projected Legal Description

No

**Nearest City or Town:** Carlsbad, NM

**Other Description:**

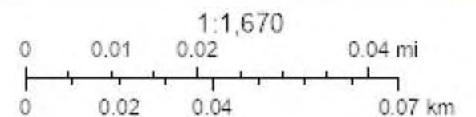
# NMCRIS No: 155585



5/21/2024, 3:58:38 PM

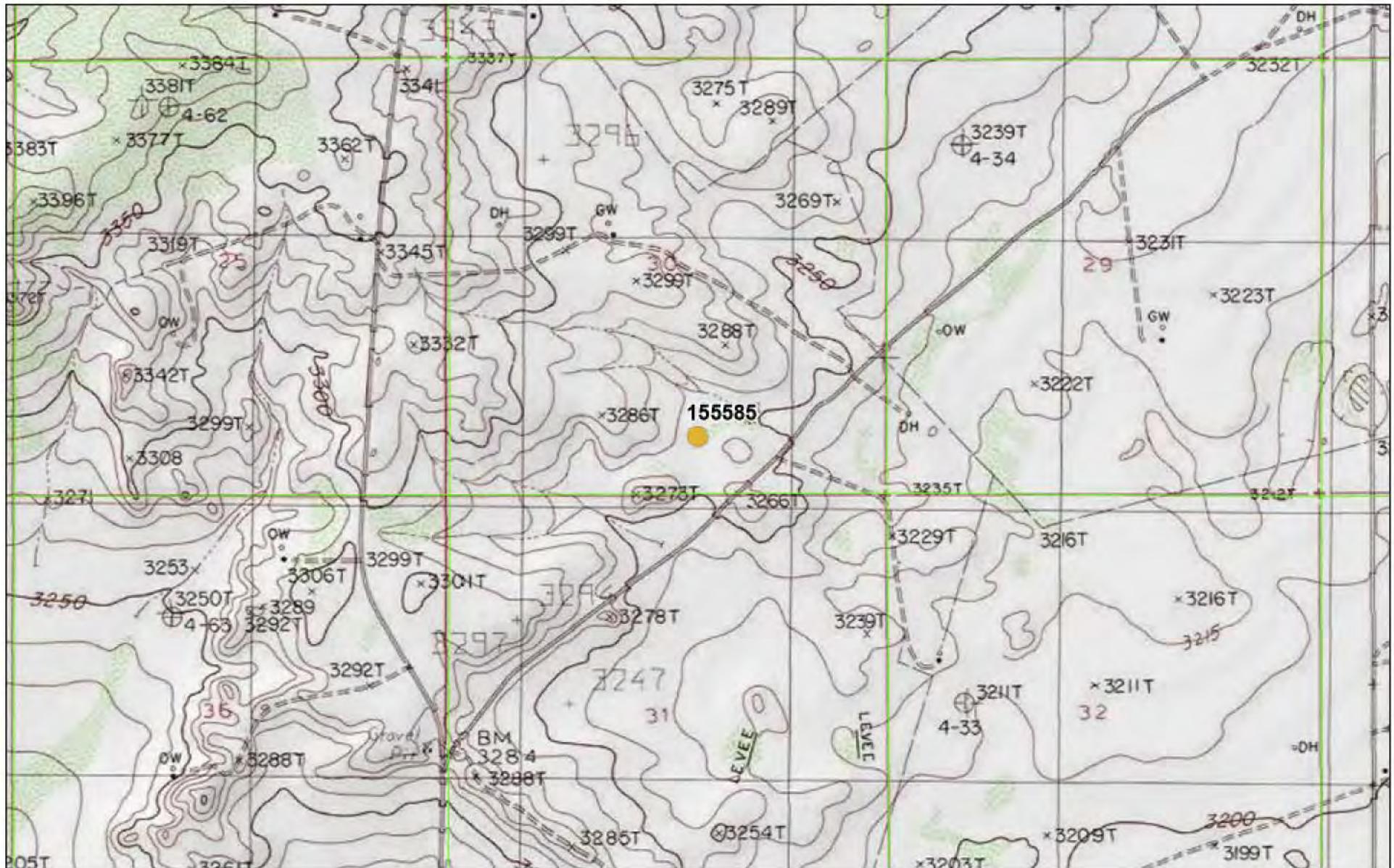
Archaeological Surveys

 Proposed



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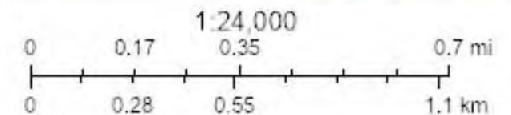
# NMCRIS No: 155585



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Archaeological Surveys

Proposed



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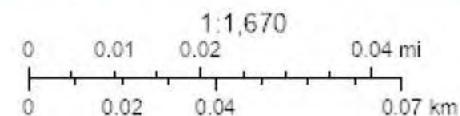
# NMCRIS No: 155585



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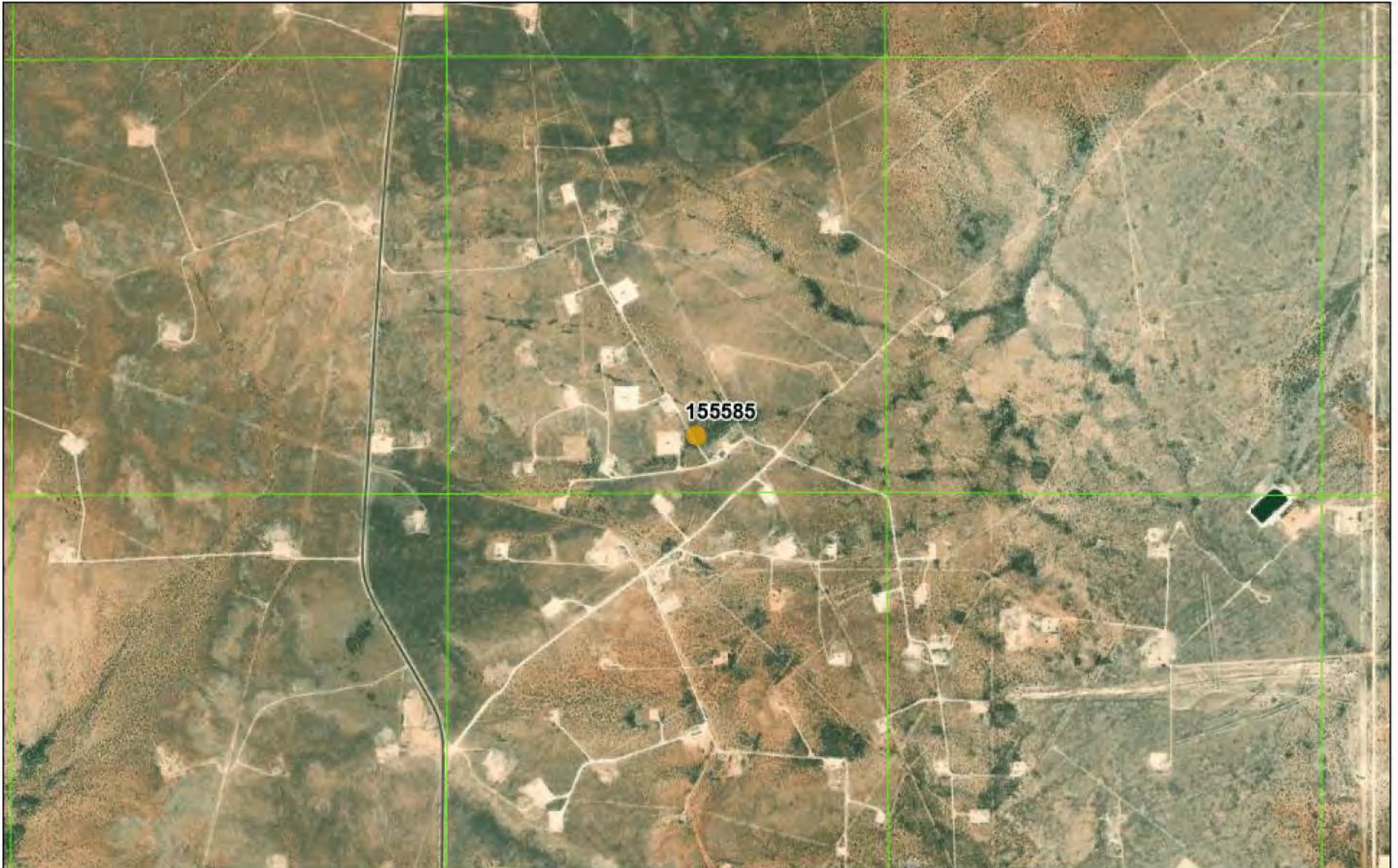
Archaeological Surveys

 Proposed



Maxar, Microsoft

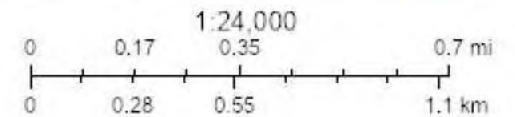
# NMCRIS No: 155585



5/21/2024, 3:58:38 PM

Archaeological Surveys

 Proposed



Maxar

## NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity Number: 155585**

**HPD Log No(s).**

### Methodology

#### Survey Field Methods

**Intensity:** 100% coverage

**Configuration:**  Block Survey Units  Linear Survey Units (l x y)

#### Other Survey Units

**Scope:** All Resources

**Coverage Method:**  Systematic Pedestrian Coverage **Other Method:**

**Survey Interval (m):** 15 **Crew Size** 1

**Fieldwork Dates** **From** 13-May-2024 **To** 13-May-2024

**Survey Person Hours:** 0.75 **Recording Person Hours** 0.00

**Additional Narrative:** SWCA surveyed a 100 foot (30 m) area from the inadvertent release for remediation activities which resulted in an APE of 1.13 acre (0.46 ha).

#### Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.)

**Environmental Setting:** The survey area is within the Chihuahuan Deserts (24): Chihuahuan Basins and Playas (24a) ecoregion (Griffith et al 2006). The physiography of the region is generally characterized by a basin and range terrain and alternating pattern of mountains and valleys along with alluvial fans, internally drained basins, and river valleys (Griffith et al 2006). The elevation of the survey area is 3,147 feet (959 m) above mean sea level. Vegetation can include creosotebush, tarbush, fourwing saltbush, acacia, gyp grama, and alkali sacaton (Griffith et al 2006; Whitehead and Flynn 2017). Plants observed during the survey include an understory of croton, snakeweed, mesquite, and various other grasses and forbs. Mesquite was an important resource for prehistoric peoples in the area. Many of the other typical grasses and plants were prehistorically collected for subsistence and non-subsistence use.

Wildlife in Eddy County includes over 935 species of mammals, birds, reptiles, dragonflies, crustaceans, moths and butterflies, mollusks, grasshoppers, crickets, and spiders (Biota Information System of New Mexico 2024). Pronghorn, deer, elk, and jackrabbits were all important resources prehistorically.

The geology of the survey area consists of eolian deposits (Qe) (Holocene to middle Pleistocene). One soil type occurs within the survey area: Simona gravelly fine sandy loam (Natural Resources Conservation Service 2024).

The climate information for the survey area was compiled using the Carlsbad, New Mexico (291469), climate station data (period of record February 1, 1900, to June 10, 2016). Rainfall for the general project area is most abundant from May through October, averaging 4.14 cm

## NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity Number: 155585**

**HPD Log No(s).**

### Methodology

(1.63 inches), with September having the heaviest average precipitation. Snowfall is expectedly heaviest between December and January, with an average of 3.10 cm (1.2 inches) and can fall from November through April; annual snowfall averages 11.18 cm (4.4 inches). The average temperatures are coldest in January at -2.33 degrees Celsius (?C) (27.8 degrees Fahrenheit [?F]) and warmest in July at 35.33?C (95.6?F) (Western Regional Climate Center 2024).

### References:

Biota Information System of New Mexico

2024 Database query for Eddy County. Available at: <http://www.bison-m.org/>. Accessed May 2024.

Griffith, Glen E., James M. Omernik, Maryann M. McGraw, Gerald Z. Jacobi, Christopher M. Canavan, T. Scott Schrader, David Mercer, Robert Hill, and Brian C. Moran  
2006 Ecoregions of New Mexico. Color poster with map, descriptive text, summary tables, and photographs. Scale 1:1,400,000. Reston, Virginia: U.S. Geological Survey.

Natural Resources Conservation Service

2024 Web Soil Survey. Available at:  
<http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>. Accessed May 2024.

Western Regional Climate Center

2024 Climate summary for Carlsbad, New Mexico (291469). Available at:  
<https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm1469>. Accessed May 2024.

Whitehead, William, and Conor Flynn

2017 Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology. Bureau of Land Management, Carlsbad Field Office, New Mexico.

### Percent Ground Visibility

**Ground Visibility:** 51-75%

**Condition of Survey Area:** The survey area is disturbed by oil and gas activities including a graded road, above ground pipelines, bioturbation, water pooling, and heavy cattle grazing.

### Attachments (check all appropriate boxes)

- USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)
- Copy of NMCRIS Map Check (required)
- LA Site Forms - new sites (with sketch map & topographic map) if applicable
- LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)

## NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity Number: 155585**

**HPD Log No(s).**

### Methodology

- Historic Cultural Property Inventory Forms, if applicable
- List and Description of Isolates, if applicable
- List and Description of Collections, if applicable

### Other Attachments

- Photographs and Log
- Other attachments **Describe:** Table of previous surveys and recorded sites

## NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity Number: 155585**

**HPD Log No(s).**

### Cultural Resource Findings

#### Investigation Results

Archaeological Sites Discovered and Registered: 0

Archaeological Sites Discovered and NOT Registered: 0

Previously Recorded Archaeological Sites Revisited (site update form required): 0

Previously Recorded Archaeological Sites Not Relocated (site update form required): 0

Total Archaeological Sites (visited & recorded): 0

Total Isolates Recorded: 0

Non-Selective Isolate Recording

HCPI Properties Discovered and Registered: 0

HCPI Properties Discovered And NOT Registered: 0

Previously Recorded HCPI Properties Revisited: 0

Previously Recorded HCPI Properties NOT Relocated: 0

Total HCPI Properties (visited & recorded, including acequias): 0

**If No Cultural Resources Found, Discuss Why:** The survey area is small and there are no cultural resources nearby.

#### Management Summary

**Summary:** SWCA completed an intensive pedestrian survey for the XTO ADU 266 inadvertent pipeline release remediation project. The proponent requested a 100-foot survey area be placed around the APE to account for remediation efforts and to sufficiently investigate the area for cultural resources, which resulted in a survey area of 1.13 acre (0.46 ha) on NMSLO managed lands. No archaeological sites, historic properties, or isolated occurrences were observed during the current investigation.

No additional investigation or treatment is recommended regarding the current undertaking. If subsurface cultural materials are encountered during remediation, all work should cease, and the NMSLO should be notified immediately.

NMSLO cultural resources preservation efforts requires that an archaeological survey be conducted to current standards for the APE pursuant to and in compliance with New Mexico Administrative Code (NMAC) 4.10.15 and 19.2.24 to ensure that cultural properties are not inadvertently excavated, harmed, or destroyed by any person.

# NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity Number: 155585**

**HPD Log No(s).**

## Attachments

### Documents

Attachment Type	Description	Name	File Type	Upload Date	Upload By
Report/Manuscript	NIAF 155585	NMCRIS 155585	PDF document	21-May-2024	Adolfo Muniz

# NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity No. 1 5 5 8 5**

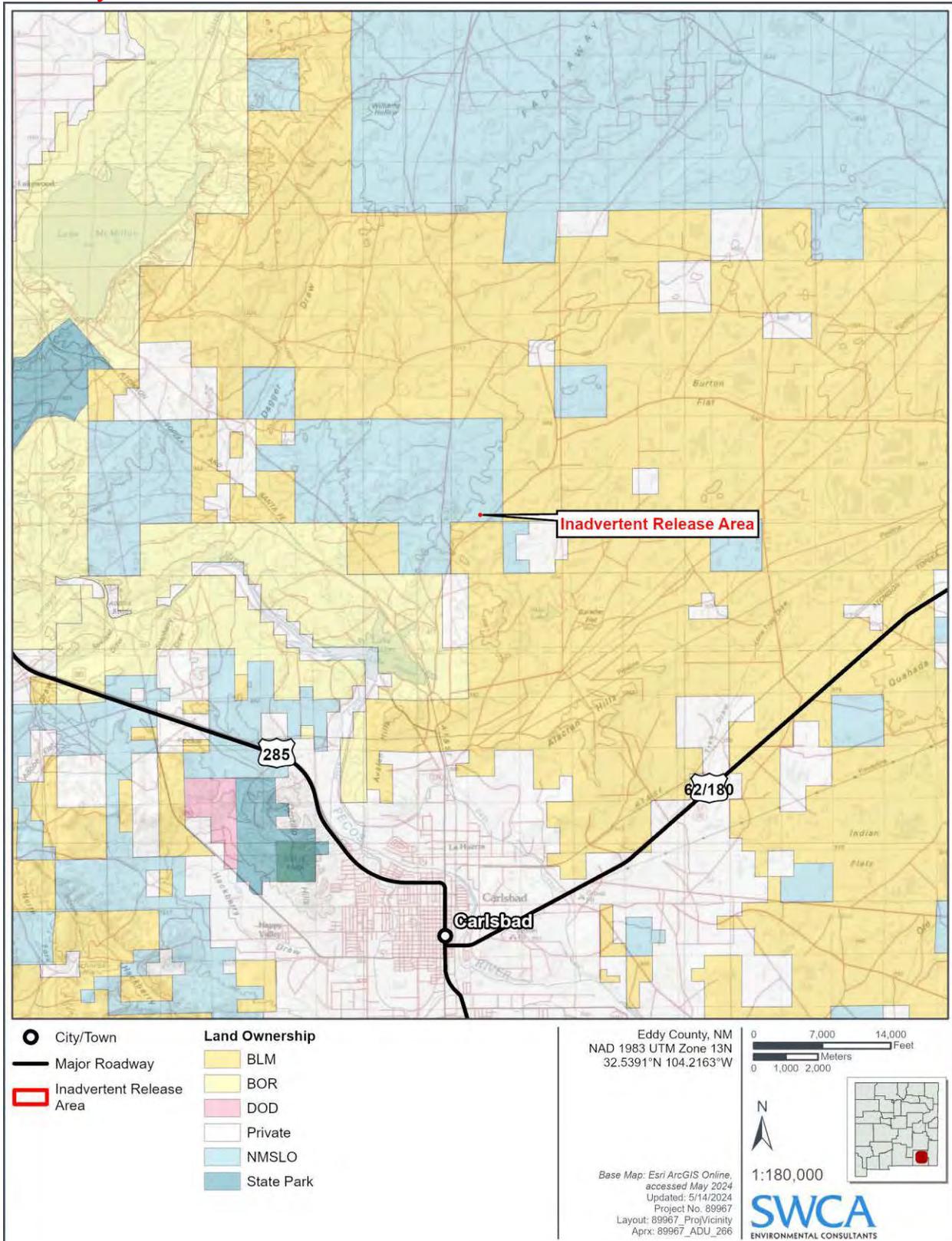


Figure 1. Project vicinity map.

# NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity No. 1 5 5 5 8 5**

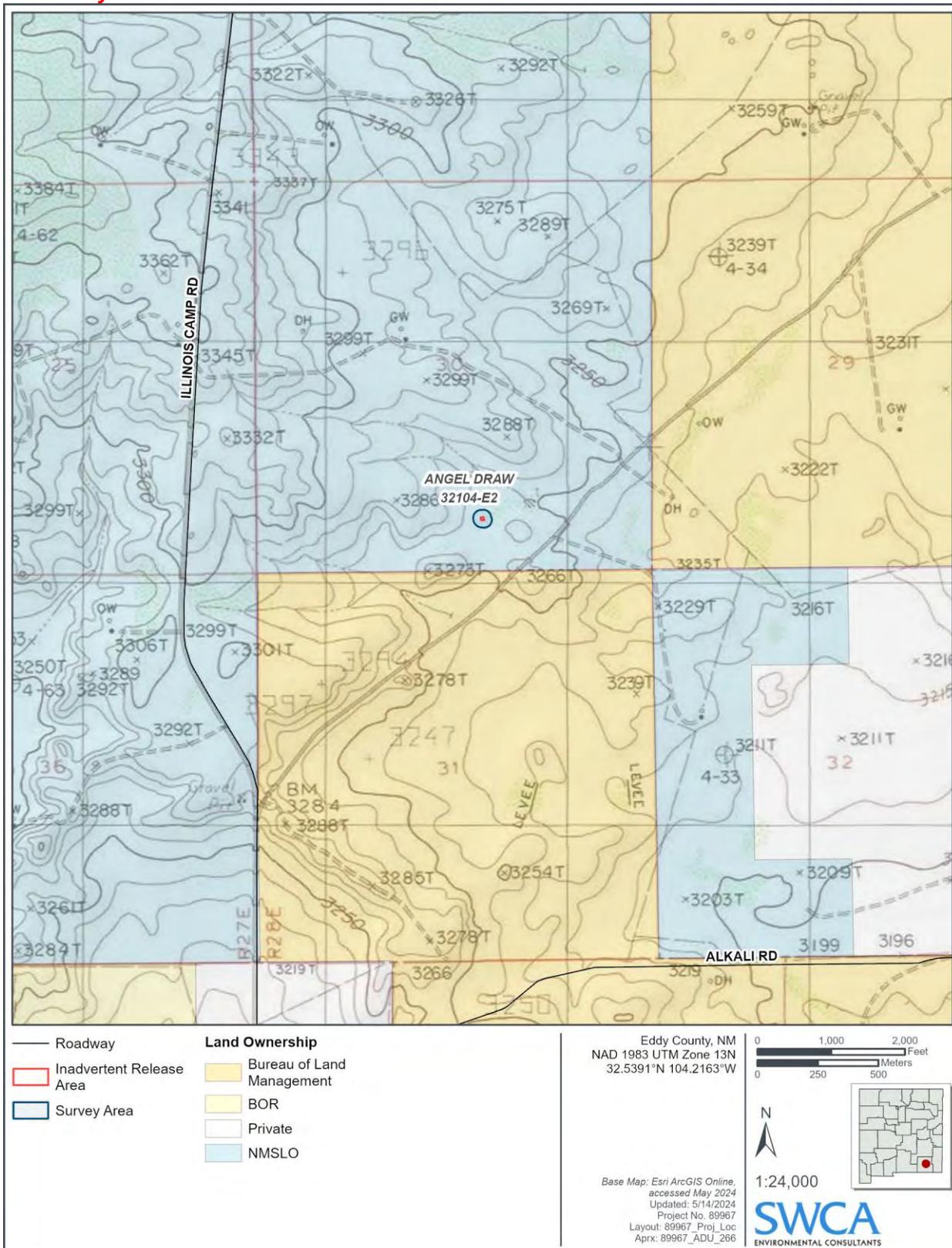


Figure 2. Project location map.

## NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity No. 1 5 5 5 8 5**



Figure 3. NMCRIS screenshot showing previous investigations represented by the brown and yellow polygons. Previously recorded cultural resources are represented by the red polygons. The survey area is represented by the blue polygon. The search buffer is represented by the green polygon.

## NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity No. 1 5 5 5 8 5**



**Figure 4. Project overview, facing north (Frame 6061).**



**Figure 5. Project overview, facing south (Frame 2997).**

## NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity No. 1 5 5 5 8 5**



**Figure 6. Project overview showing release area, facing southwest (Frame 8306).**

**Table 1. Previous Investigations Within 500-meters (0.62-mile) of the Survey Area**

NMCRIS Activity #	Performing Organization	Starting Date	Total Acres	Resource Count
10051	Agency for Conservation Archaeology Eastern New Mexico University	3/8/1983	32.46	0
10092	Agency for Conservation Archaeology Eastern New Mexico University	11/2/1982	27.29	0
10107	Agency for Conservation Archaeology Eastern New Mexico University	12/13/1982	15.93	0
10221	Agency for Conservation Archaeology Eastern New Mexico University	4/26/1982	8.56	0
12001	New Mexico Archaeological Services, Inc.	8/11/1983	1.58	0
12257	New Mexico Archaeological Services, Inc.	5/1/1983	8.95	0
13029	New Mexico Archaeological Services, Inc.	4/26/1986	4.92	0
13040	New Mexico Archaeological Services, Inc.	4/10/1986	20.54	0
18004	Agency for Conservation Archaeology Eastern New Mexico University	7/6/1982	4.24	0

## NMCRIS Investigation Abstract Form (NIAF)

### NMCRIS Activity No. 1 5 5 5 8 5

NMCRIS Activity #	Performing Organization	Starting Date	Total Acres	Resource Count
18131	Agency for Conservation Archaeology Eastern New Mexico University	4/2/1982	6.32	0
27011	Archaeological Survey Consultants	8/18/1989	8.01	0
32336	Agency for Conservation Archaeology Eastern New Mexico University	12/16/1981	10.76	0
36789	Pecos Archaeological Consultants	6/10/1991	424.68	1
43734	Pecos Archaeological Consultants	8/12/1993	43.64	0
45421	Southwest Archaeological Services, Inc.	3/29/1994	6.24	0
46362	Pecos Archaeological Consultants	11/19/1993	12.07	0
104556	Southern New Mexico Archaeological Services	4/10/2007	8.26	0
133371	Boone Archaeological Services of New Mexico	5/9/2015	8.26	0
133372	Boone Archaeological Services of New Mexico	5/9/2015	8.26	0
133384	Lone Mountain Archaeological Services	2/3/2015	39,174.25	594
152328	APAC	2/9/2023	89.61	1
153033	Lone Mountain Archaeological Services	5/1/2023	719.70	5

**Table 2. Previous Sites Within 500-meters (0.62-mile) of the Survey Area**

Resource No.	Site Type	Discovering NMCRIS	Cultural Affiliation	NRHP Determination	Location in Relation to the Survey Area
LA 182055	Archaeology/Features	133384	Anglo, Statehood—WWII (A.D. 1942–1945)	Determined eligible, Criterion D (HPD Log No. 102999, dated 2/11/2016)	Outside

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**State of New Mexico**  
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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 362230

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362230
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2409551506
Incident Name	NAPP2409551506 ADU 226 @ 0
Incident Type	Release Other
Incident Status	Remediation Closure Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	ADU 226
Date Release Discovered	03/21/2024
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Crude Oil   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 19 BBL   Recovered: 0 BBL   Lost: 19 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 362230

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362230
	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)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

**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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*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: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 04/04/2024
--	--

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 362230

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362230
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	91200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	37600
GRO+DRO (EPA SW-846 Method 8015M)	28900
BTEX (EPA SW-846 Method 8021B or 8260B)	4.8
Benzene (EPA SW-846 Method 8021B or 8260B)	0.2

*Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

On what estimated date will the remediation commence	05/16/2024
On what date will (or did) the final sampling or liner inspection occur	05/22/2024
On what date will (or was) the remediation complete(d)	05/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	1520
What is the estimated volume (in cubic yards) that will be reclaimed	225
What is the estimated surface area (in square feet) that will be remediated	1520
What is the estimated volume (in cubic yards) that will be remediated	340

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 4

Action 362230

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362230
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

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.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<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	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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 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: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/09/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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**District III**  
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 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 362230

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362230
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 362230

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362230
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>344634</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>05/22/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>20</b>
What was the sampling surface area in square feet	<b>1631</b>

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
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	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>1520</b>
What was the total volume (cubic yards) remediated	<b>340</b>
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	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>1520</b>
What was the total volume (in cubic yards) reclaimed	<b>225</b>
Summarize any additional remediation activities not included by answers (above)	Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

*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 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.

I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/09/2024
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QUESTIONS, Page 7

Action 362230

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362230
	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 362230

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362230
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2409551506 ADU 226, thank you. This Remediation Closure Report is approved.	7/19/2024