

Incident ID	nAPP2311029101
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*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?	<u>200</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

## Oil Conservation Division

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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.

Printed Name: Connor Walker Title: Sr. Engineer

Signature:  Date: 7/10/2023

email: cwalker@mewbourne.com Telephone: (806)202-5281

**OCD Only**

Received by: Shelly Wells Date: 7/10/2023

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## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Connor Walker

Title: Sr. Engineer

Signature: \_\_\_\_\_



Date: 7/10/2023

email: cwalker@mewbourne.com

Telephone: (806)202-5281

### OCD Only

Received by: Shelly Wells

Date: 7/10/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez

Date: 10/02/2023

Printed Name: Nelson Velez

Title: Environmental Specialist - Adv

## Remediation Summary & Soil Closure Request

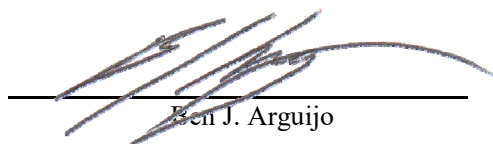
### Mewbourne Oil Company Antelope 9 B3OB St Com #1H Battery

Lea County, New Mexico  
Unit Letter "N", Section 9, Township 23 South, Range 34 East  
Latitude 32.3128910 North, Longitude 103.477474 West  
NMOCD Reference No. nAPP2311029101

Prepared By:

#### Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D  
Lubbock, Texas 79413



Ben J. Arguijo



Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette



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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Antelope 9 B3OB St Com #1H Battery (henceforth, "Antelope"). Details of the release are summarized below:

## Location of Release Source

Latitude: 32.3128910 Longitude: -103.4774740

Provided GPS are in WGS84 format.

Site Name: Antelope 9 B3OB St Com #1H Battery	Site Type: Tank Battery
Date Release Discovered: 4/13/2023	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"N"	9	23S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name )

## Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 21	Volume Recovered (bbls) 13
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 44	Volume Recovered (bbls) 27
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

Separator released fluid through panic line.

## Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available in the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

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 Antelope 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 as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	200'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles, topographic maps, NMOSE and USGS databases, and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

## 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 Antelope release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
200'	Chloride (Cl <sup>-</sup> )	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)

† 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 REMEDIATION ACTIVITIES SUMMARY

On April 27, 2023, remediation activities commenced at the Antelope 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 floors of the excavation were advanced until field tests and field observations suggested 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.

On April 27, 2023, Etech collected 10 confirmation soil samples (FL 1 @ 1' through FL 10 @ 1') from the floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "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/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limit (MDL), with the exception of soil sample FL 4 @ 1', which exhibited a TPH concentration of 11.0 mg/kg. Chloride concentrations ranged from less than the laboratory MDL in soil sample FL 6 @ 1' to 128 mg/kg in soil sample FL 1 @ 1'.

On May 1, 2023, Etech collected 14 confirmation soil samples (FL 11 @ 3' through FL 24 @ 2.5') from the floor 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 and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil samples FL 11 @ 3', FL 12 @ 3', FL 14 @ 3.5' through FL 19 @ 2.5', FL 21 @ 2.5', FL 22 @ 2.5', and FL 24 @ 2.5' to 2,433 mg/kg in soil sample FL 13 @ 3'. GRO+DRO concentrations in soil samples FL 13 @ 3' and FL 23 @ 2.5' exceeded the NMOCD Closure Criterion. TPH concentrations in soil samples FL 13 @ 3', FL 20 @ 1', and FL 23 @ 2.5' exceeded the NMOCD Closure Criterion and/or NMOCD Reclamation Standard. Chloride concentrations ranged from 16.0 mg/kg in soil samples FL 12 @ 3', FL 14 @ 3.5', and FL 17 @ 1' to 192 mg/kg in soil sample FL 22 @ 2.5'.

On May 2, 2023, Etech collected 13 confirmation soil samples (FL 26 @ 2.5' through FL 38 @ 1') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentration were less than the laboratory MDL in a majority of the submitted soil samples, with the exceptions of soil samples FL 32 @ 1', FL 35 @ 1', and FL 38 @ 1', which exhibited TPH concentrations ranging from 11.4 mg/kg (FL 32 @ 1') to 54.5 mg/kg (FL 38 @ 1'). Chloride concentrations ranged from 16.0 mg/kg in soil samples FL 27 @ 2', FL 29 @ 2', FL 30 @ 2', FL 33 @ 1', FL 34 @ 1', FL 35 @ 1', and FL 36 @ 1' to 32.0 mg/kg in soil samples FL 26 @ 2.5', FL 28 @ 3', FL 31 @ 1', FL 32 @ 1', FL 37 @ 1', and FL 38 @ 1'.

On May 3, 2023, Etech collected 13 confirmation soil samples (NW1, NW2, NW3, NW4, NW5, EW1, EW2, EW3, SW1, SW2, SW3, WW1, and WW2) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples NW2, NW4, EW3, SW1, SW2, and WW2 to 378 mg/kg in soil sample NW1. TPH concentrations in soil samples NW1, NW3, EW1, EW2, and SW3 exceeded the NMOCD Closure Criterion and/or NMOCD Reclamation Standard. Chloride concentrations ranged from 32.0 mg/kg in soil sample EW3 to 480 mg/kg in soil sample NW3.

On May 8, 2023, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FL 13 @ 3', FL 20 @ 1', and FL 23 @ 2.5'. Etech collected three (3) confirmation soil samples (FL 13 @ 3.5', FL 20 @ 2', and FL 23 @ 3') from the floor of the newly excavated area. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criterion, NMOCD Reclamation Standard, and laboratory MDL in each of the submitted soil samples.

On May 11, 2023, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples NW1, NW3, EW1, EW2, and SW3. Etech collected five (5) confirmation soil samples (NW1A, NW3A, EW1A, EW2A, and SW3A) from the sidewalls of the newly excavated area. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criterion and NMOCD Reclamation Standard in each of the submitted soil samples and ranged from less than the laboratory MDL in soil samples NW3A, EW1A, EW2A, and SW3A to 11.2 mg/kg in soil sample NW1A.

The final dimensions of the excavated area were approximately 188 to 314 feet in length, 10 to 132 feet in width, and 1 to 3.5 feet in depth. During the course of remediation activities, Etech transported approximately 1,162 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 900 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, "Site & 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.

## **5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

## **6.0 SOIL CLOSURE REQUEST**

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and 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 Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Antelope release site.

## 7.0 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 Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

## **8.0 DISTRIBUTION**

***Mewbourne Oil Company***

*4801 Business Park Blvd.  
Hobbs, NM 88240*

***New Mexico Energy, Minerals and Natural Resources Department***

*Oil Conservation Division, District 1  
1220 South St. Francis Drive  
Santa Fe, NM 87505*

***Hobbs Field Office***

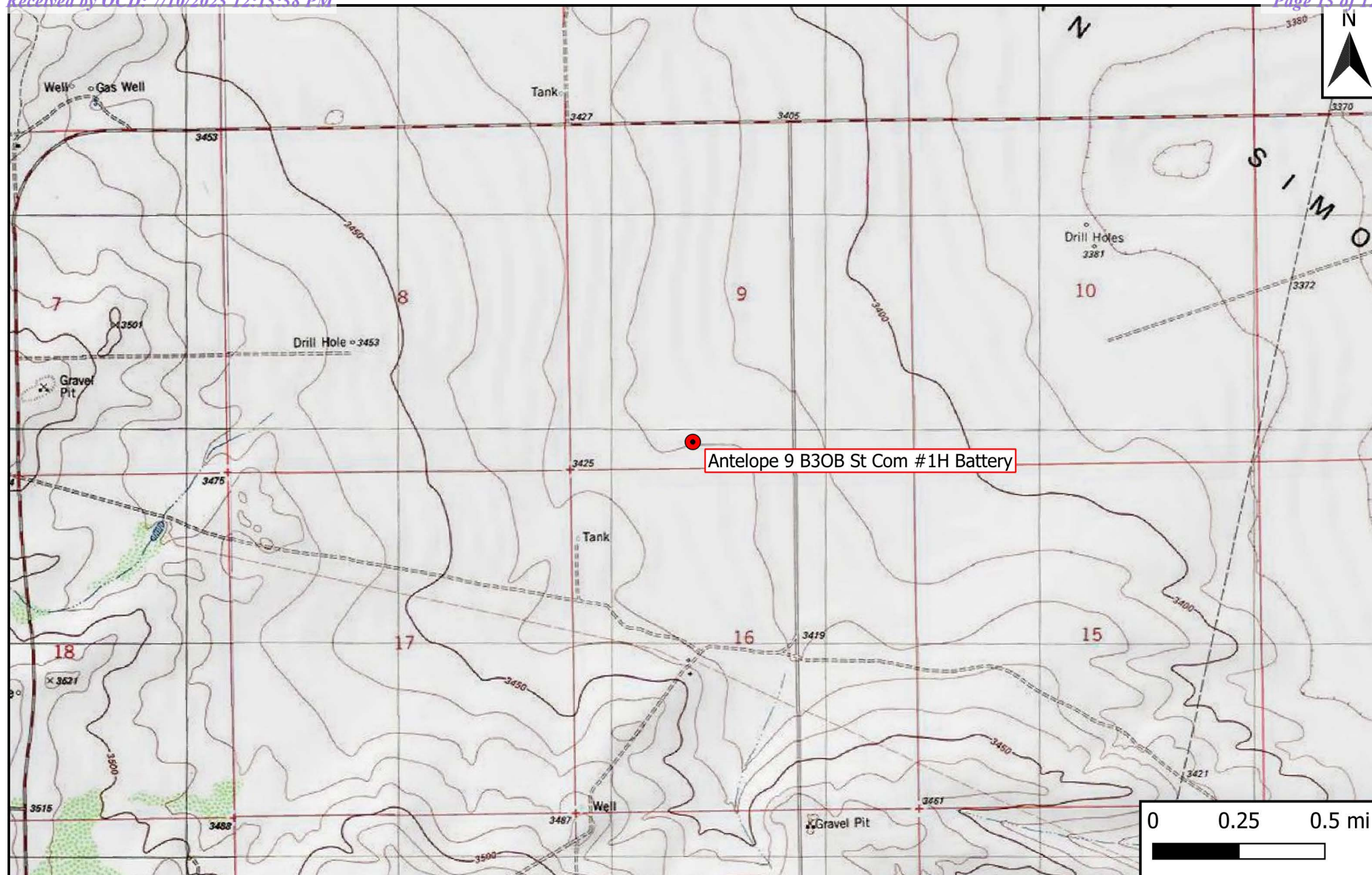
*New Mexico State Land Office  
2827 North Dal Paso Street  
Suite 117  
Hobbs, NM 88240*

*(Electronic Submission)*

## **Figure 1**

### **Topographic Map**





## Legend

- Site Location

## Figure 1

Topographic Map  
 Mewbourne Oil Company  
 Antelope 9 B3OB St Com #1H Battery  
 GPS: 32.312891, -103.477474  
 Lea County



Drafted: bja

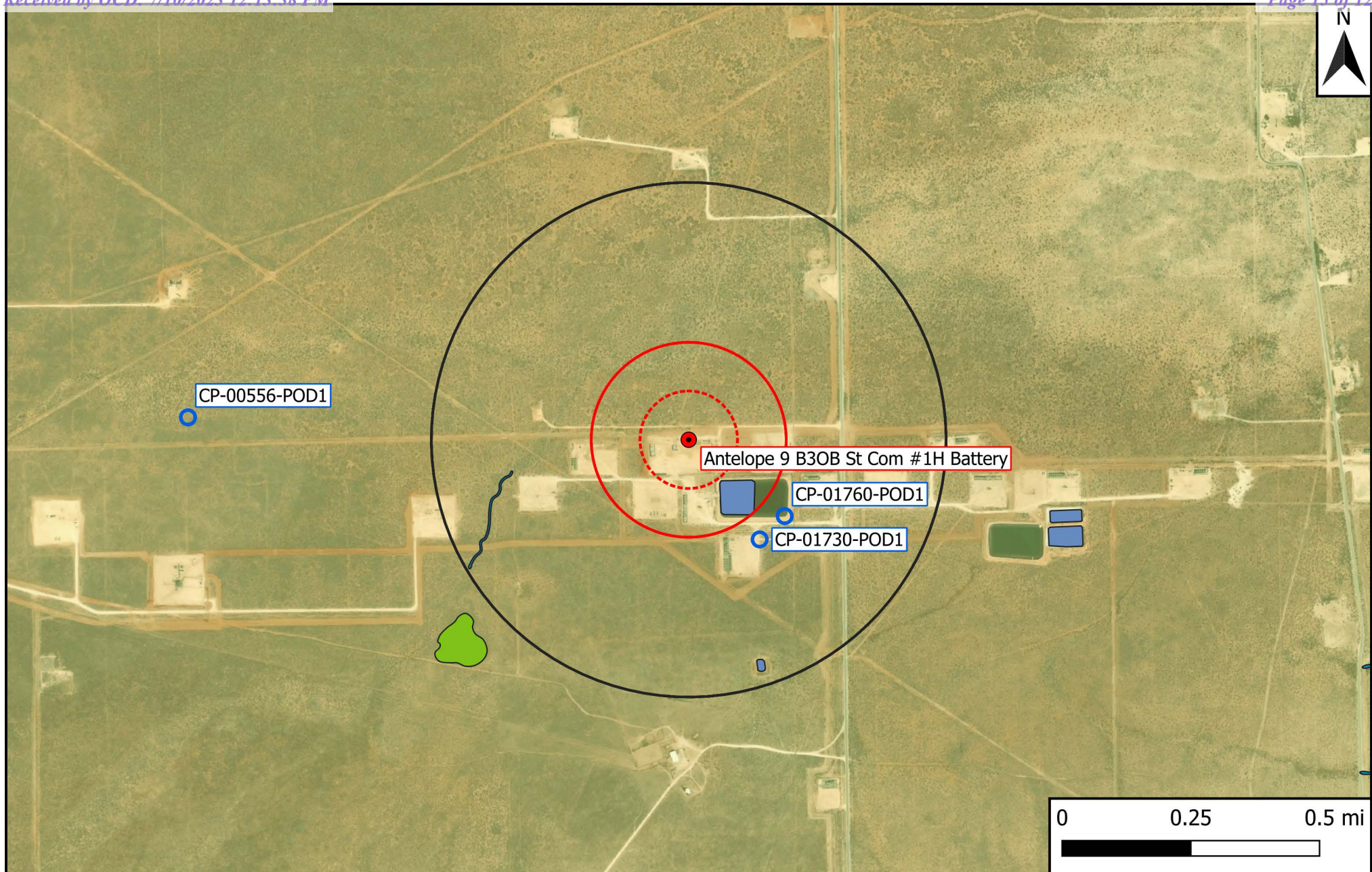
Checked: lc

Date: 6/16/23

## **Figure 2**

### **Site Characterization Map**





## Legend

- |                              |                                 |                        |
|------------------------------|---------------------------------|------------------------|
| ● Site Location              | 1% Annual Flood Chance          | --- 500-Ft Radius      |
| ○ Well - NMOSE               | Emergent/Forested Wetlands      | --- 1,000-Ft Radius    |
| ○ Well - USGS                | Freshwater Pond/Lake            | --- 0.5-Mi Radius      |
| ○ Well - Exploratory/Monitor | Karst Potential (Low/Med./High) | --- Municipal Boundary |
| — Potash Mine Workings       | Riverine                        |                        |

## Figure 2

Site Characterization Map  
 Mewbourne Oil Company  
 Antelope 9 B3OB St Com #1H Battery  
 GPS: 32.312891, -103.477474  
 Lea County



Drafted: bja

Checked: lc

Date: 6/16/23

## **Figure 3**

### **Site & Sample Location Map**





## Legend

- Excavation Extent
- Composite Floor Sample
- Composite Wall Sample

## Figure 3

Site & Sample Location Map  
 Mewbourne Oil Company  
 Antelope 9 B3OB St Com #1H Battery  
 GPS: 32.312891, -103.477474  
 Lea County



Drafted: bja

Checked: lc

Date: 7/10/23

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

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**Mewbourne Oil Company**  
**Antelope 9 B3OB St Com #1H Battery**  
**NMOCD Ref. #: nAPP2311029101**

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)
NW1	5/3/2023	0-1	Excavated	<0.050	<0.300	<10.0	323	323	54.8	378	384
NW1A	5/11/2023	0-1	In-Situ	-	-	<10.0	11.2	11.2	<10.0	11.2	-
NW2	5/3/2023	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW3	5/3/2023	0-2.5	Excavated	<0.050	<0.300	<10.0	143	143	17.7	161	480
NW3A	5/11/2023	0-2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
NW4	5/3/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW5	5/3/2023	0-2	In-Situ	<0.050	<0.300	<10.0	37.3	37.3	<10.0	37.3	96.0
EW1	5/3/2023	0-2	Excavated	<0.050	<0.300	<10.0	169	169	22.1	191	192
EW1A	5/11/2023	0-2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
EW2	5/3/2023	0-2.5	Excavated	<0.050	<0.300	<10.0	118	118	17.6	136	176
EW2A	5/11/2023	0-2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
EW3	5/3/2023	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW1	5/3/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW2	5/3/2023	0-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW3	5/3/2023	0-3	Excavated	<0.050	<0.300	<10.0	131	131	14.3	145	224
SW3A	5/11/2023	0-3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
WW1	5/3/2023	0-1	In-Situ	<0.050	<0.300	<10.0	24.8	24.8	<10.0	24.8	64.0
WW2	5/3/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 1 @ 1'	4/27/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 2 @ 1'	4/27/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 3 @ 1'	4/27/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 4 @ 1'	4/27/2023	1	In-Situ	<0.050	<0.300	<10.0	11.0	11.0	<10.0	11.0	48.0
FL 5 @ 1'	4/27/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 6 @ 1'	4/27/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 7 @ 2'	4/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 8 @ 1'	4/27/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 9 @ 1'	4/27/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 10 @ 1'	4/27/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 11 @ 3'	5/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 12 @ 3'	5/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 13 @ 3'	5/1/2023	3	Excavated	<0.050	4.41	202	1,930	2,130	301	2,430	176
FL 13 @ 3.5'	5/8/2023	3.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 14 @ 3.5'	5/1/2023	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 15 @ 1'	5/1/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 16 @ 2.5'	5/1/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 17 @ 1'	5/1/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 18 @ 1'	5/1/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 19 @ 2.5'	5/1/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 20 @ 1'	5/1/2023	1	Excavated	<0.050	<0.300	<10.0	308	308	35.0	343	64.0
FL 20 @ 2'	5/8/2023	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 21 @ 2.5'	5/1/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 22 @ 2.5'	5/1/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Antelope 9 B3OB St Com #1H Battery</b> <b>NMOCD Ref. #: nAPP2311029101</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)
FL 23 @ 2.5'	5/1/2023	2.5	Excavated	<0.050	0.868	76.0	1,060	<b>1,140</b>	175	1,310	32.0
FL 23 @ 3'	5/8/2023	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 24 @ 2.5'	5/1/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 26 @ 2.5'	5/2/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 27 @ 2'	5/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 28 @ 3'	5/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 29 @ 2'	5/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 30 @ 2'	5/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 31 @ 1'	5/2/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 32 @ 1'	5/2/2023	1	In-Situ	<0.050	<0.300	<10.0	11.4	11.4	<10.0	11.4	32.0
FL 33 @ 1'	5/2/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 34 @ 1'	5/2/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 35 @ 1'	5/2/2023	1	In-Situ	<0.050	<0.300	<10.0	18.3	18.3	<10.0	18.3	16.0
FL 36 @ 1'	5/2/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 37 @ 1'	5/2/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 38 @ 1'	5/2/2023	1	In-Situ	<0.050	<0.300	<10.0	54.5	54.5	<10.0	54.5	32.0

Dash (-): Sample not analyzed for that constituent.

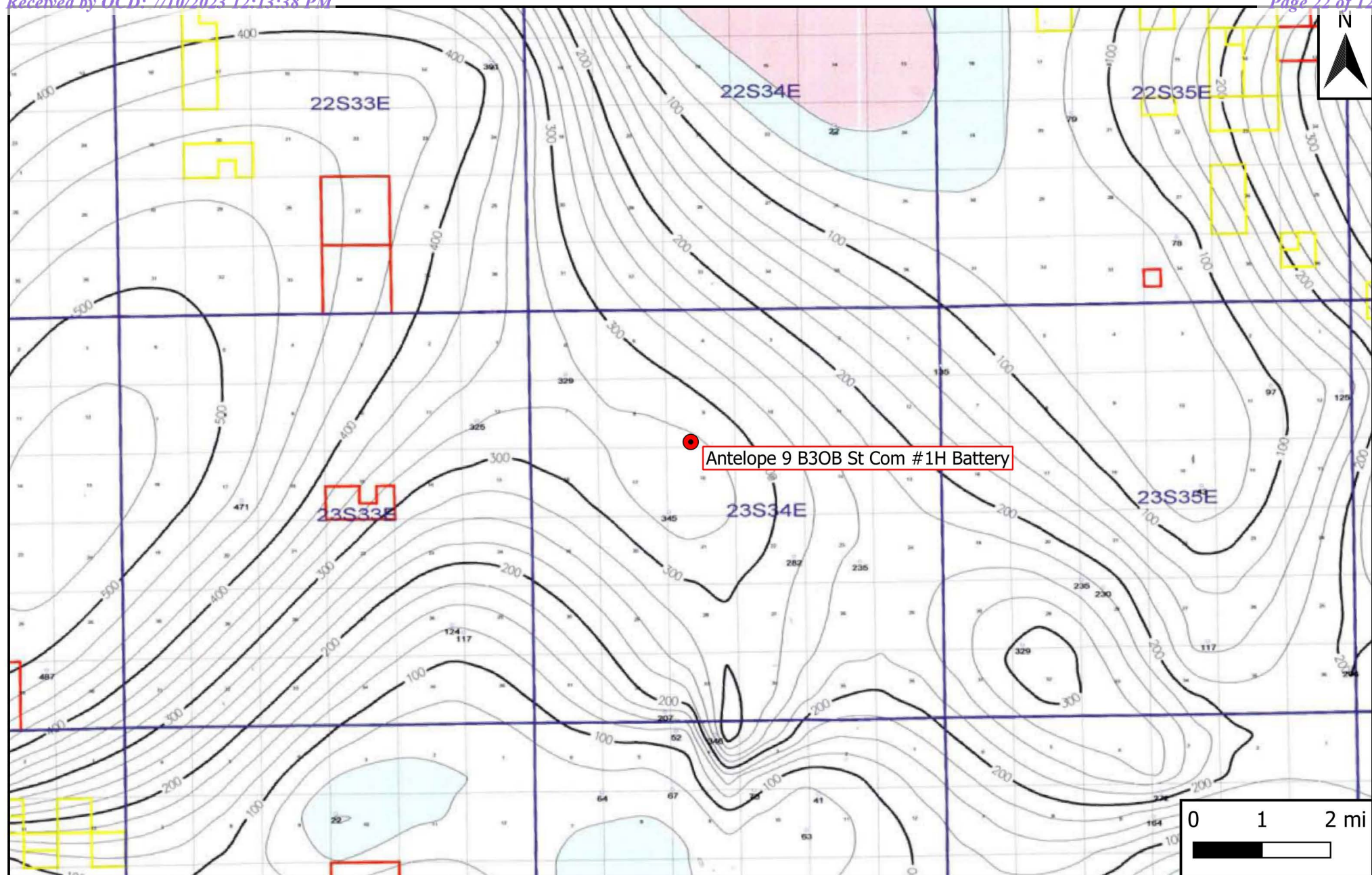
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.



## **Appendix A**

### **Depth to Groundwater Information**



## Legend

- Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
 Mewbourne Oil Company  
 Antelope 9 B3OB St Com #1H Battery  
 GPS: 32.312891, -103.477474  
 Lea County



Drafted: bja

Checked: lc

Date: 6/16/23



# 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	POD Sub-basin	County	Q 6	Q 4	Q 1	Sec 16	Tws 23S	Rng 34E	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 01730 POD1</a>		CP	LE	2	2	1	16	23S	34E	643549	3575824	382	594	200	394
<a href="#">CP 01760 POD1</a>		CP	LE	3	1	2	16	23S	34E	643627	3575897	383	767	290	477

Average Depth to Water: **245 feet**

Minimum Depth: **200 feet**

Maximum Depth: **290 feet**

**Record Count:** 2

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 643327.48

**Northing (Y):** 3576136.24

**Radius:** 804.67

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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>
NA	CP 01730 POD1	2 2 1	16	23S	34E	643549	3575824 

**Driller License:** 1706      **Driller Company:** ELITE DRILLERS CORPORATION

**Driller Name:** WALLACE, BRYCE J.

<b>Drill Start Date:</b> 10/31/2018	<b>Drill Finish Date:</b> 11/05/2018	<b>Plug Date:</b>
<b>Log File Date:</b> 12/13/2018	<b>PCW Rcv Date:</b>	<b>Source:</b> Artesian
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 320 GPM
<b>Casing Size:</b> 7.60	<b>Depth Well:</b> 594 feet	<b>Depth Water:</b> 200 feet

### Water Bearing Stratifications:

Top	Bottom	Description
290	320	Sandstone/Gravel/Conglomerate
320	350	Sandstone/Gravel/Conglomerate
350	440	Sandstone/Gravel/Conglomerate
440	490	Sandstone/Gravel/Conglomerate
490	530	Sandstone/Gravel/Conglomerate
530	550	Sandstone/Gravel/Conglomerate
550	570	Sandstone/Gravel/Conglomerate
570	580	Sandstone/Gravel/Conglomerate

### Casing Perforations:

Top	Bottom
294	594

<b>Meter Number:</b> 20209	<b>Meter Make:</b> SEAMETRICS
<b>Meter Serial Number:</b> 042018001201	<b>Meter Multiplier:</b> 1.0000
<b>Number of Dials:</b> 8	<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> Monthly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/07/2021	2021	144453	A	ad		0
02/05/2021	2021	144453	A	ad		0
08/02/2021	2021	144453	A	ad		0
09/01/2021	2021	144453	A	ad		0
10/05/2021	2021	144453	A	ad		0
11/04/2021	2021	144453	A	ad		0
12/13/2021	2021	144453	A	ad		0
01/01/2022	2022	144453	A	ad		0
02/08/2022	2022	144453	A	ad		0
03/02/2022	2022	144453	A	ad		0
04/01/2022	2022	144453	A	ad		0
05/06/2022	2022	144453	A	ad		0
06/07/2022	2022	144453	A	ad		0

07/10/2022	2022	144453	A	ad	0
09/05/2022	2022	144453	A	ad	0
10/10/2022	2022	144453	A	ad	0
11/10/2022	2022	144453	A	ad	0
06/07/2023	2023	144453	A	ad	0

<b>**YTD Meter</b>	<b>Year</b>	<b>Amount</b>
<b>Amounts:</b>		
	2021	0
	2022	0
	2023	0

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POINT OF DIVERSION  
SUMMARY



# 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)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01760 POD1	3	1	2	16	23S	34E	643627	3575897 

Driller License: 1706		Driller Company:		ELITE DRILLERS CORPORATION			
Driller Name:		WALLACE, BRYCE J.LEE.NER					
Drill Start Date: 02/01/2020		Drill Finish Date:		03/15/2020		Plug Date:	
Log File Date: 04/09/2020		PCW Rcv Date:				Source: Artesian	
Pump Type:		Pipe Discharge Size:				Estimated Yield: 80 GPM	
Casing Size: 8.00		Depth Well:		767 feet		Depth Water: 290 feet	

### Water Bearing Stratifications:

Top	Bottom	Description
285	320	Sandstone/Gravel/Conglomerate
320	350	Shale/Mudstone/Siltstone
350	445	Sandstone/Gravel/Conglomerate
445	495	Shale/Mudstone/Siltstone
495	530	Sandstone/Gravel/Conglomerate
530	555	Sandstone/Gravel/Conglomerate
555	570	Sandstone/Gravel/Conglomerate
570	585	Sandstone/Gravel/Conglomerate
585	600	Shale/Mudstone/Siltstone
600	630	Shale/Mudstone/Siltstone
630	660	Sandstone/Gravel/Conglomerate
660	710	Sandstone/Gravel/Conglomerate
710	750	Limestone/Dolomite/Chalk

### Casing Perforations:

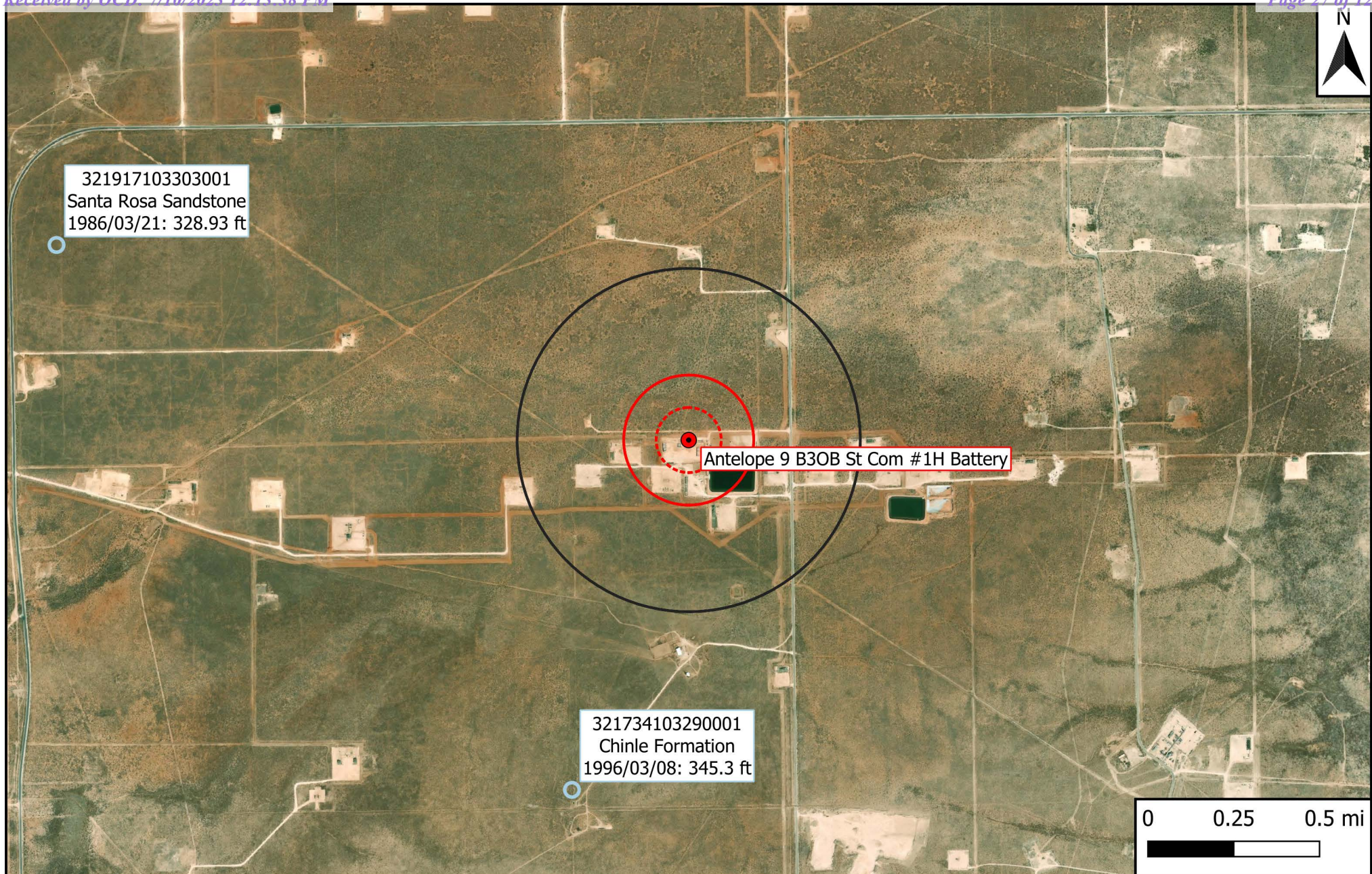
Top	Bottom
567	767

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POINT OF DIVERSION SUMMARY





## Legend

- Site Location
- Well - USGS
- ⋯ 500-Ft Radius
- ▭ 1,000-Ft Radius
- ▭ 0.5-Mi Radius

## Figure 5

USGS Well Proximity Map  
Mewbourne Oil Company  
Antelope 9 B3OB St Com #1H Battery  
GPS: 32.312891, -103.477474  
Lea County



Drafted: bja

Checked: lc

Date: 6/16/23





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United States

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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321734103290001

Minimum number of levels = 1

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

### USGS 321734103290001 23S.34E.16.333312

Lea County, New Mexico

Latitude 32°17'53", Longitude 103°28'59" NAD27

Land-surface elevation 3,478.00 feet above NGVD29

The depth of the well is 400 feet below land surface.

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

This well is completed in the Chinle Formation (231CHNL) local aquifer.

#### Output formats

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[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1971-01-13		D	72019	344.05			1	Z			A
1976-12-16		D	72019	347.38			1	Z			A
1981-03-30		D	72019	345.40			1	Z			A
1986-03-21		D	72019	347.80			1	Z			A
1996-03-08		D	72019	345.30			1	S			A



Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.27   0.24 nadww01



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Agency code = usgs

site\_no list =

- 321917103303001

Minimum number of levels = 1

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### USGS 321917103303001 23S.34E.06.43314

Lea County, New Mexico

Latitude 32°19'17", Longitude 103°30'30" NAD27

Land-surface elevation 3,480 feet above NAVD88

The depth of the well is 640 feet below land surface.

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

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-06-11		D	72019	338.90			1	Z			A
1986-03-21		D	72019	328.93			1	Z			A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Page Last Modified: 2023-07-10 11:33:36 EDT

0.28 0.25 nadww01

## **Appendix B**

### **Field Data**



## Sample Log

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

Project: Antelope 9 B2NC State Com 1H

Project Number: 18093 Latitude: 32.313099 Longitude: -103.477499

Sample ID	PID/Odor	Chloride Conc.	GPS
Sp1@1'	—	200	
Sp2@1'	—	200	
Sp3@1'	—	260	
Sp4@1'	—	292	
Sp5@1'	—	292	
Sp6@1'	✓	408	
Sp7@1' \ Sp7@2'	—	780 \ 552	
Sp8@1'	—	408	
Sp9@1'	—	368	
Sp10@1'	—	260	
Sp11@1' \ FL11@3'	—	2,272 \ 124	
Sp12@1' \ FL12@3'	—	1,136 \ 360	
FL13@2' \ FL13@3'	—	260	
FL14@2' \ FL14@3.5'	SMell	368 \ 368	
FL15@1'	—	124	
FL16@1' \ FL16@2.5'	—	780 \ 200	
FL17@1'	—	124	
FL18@1'	—	200	
FL19@1' \ FL19@2.5'	—	1,716 \ 228	
FL20@1'	—	228	
FL21@2.5'	—	200	
FL22@2.5'	—	368	
FL23@2.5'	—	292	
FL24@2.5'	✓	368	
FL25@2'	—	784	
FL26@2' \ FL26@2.5'	—	2,272 \ 200	
FL27@2'	—	408	
FL28@2' \ FL28@3'	—	2,444 \ 340	
FL29@2'	—	340	
FL30@2'	—	176	
FL31@1'	—	380	
FL32@1'	—	448	
FL33@1'	—	176	
FL34@1'	—	264	
FL35@1'	—	228	
FL36@1'	—	408	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Sidewall = SW #1 etc

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



### Sample Log

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

Project: Antelope 9 B2NC State Com 1H

Project Number: 18093      Latitude: 32.313099      Longitude: -103.477499

[illegible]

**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	 <p>Apr 19, 2023 at 10:59:24 AM +32.312916,-103.477390 ±10.00m 188° S</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 2	 <p>Apr 19, 2023 at 10:59:29 AM +32.312916,-103.477390 ±10.00m 239° SW</p>
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the affected area.	




## Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the affected area.	




## Photographic Log


<b>Photo Number:</b> 5	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 6	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the affected area.	



## Photographic Log


<b>Photo Number:</b> 7	
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 8	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the affected area.	



## Photographic Log

<b>Photo Number:</b> 9	
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 10	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	



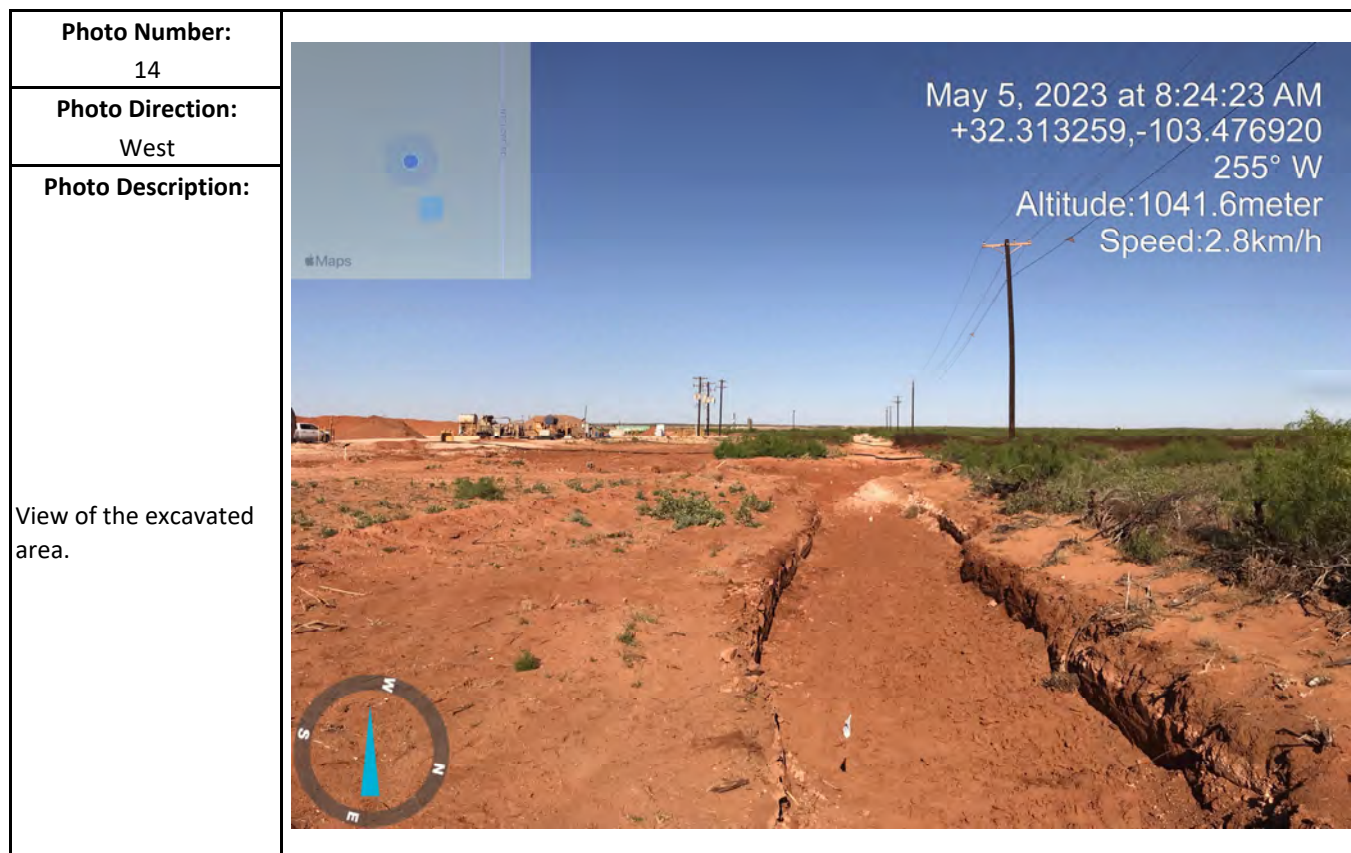
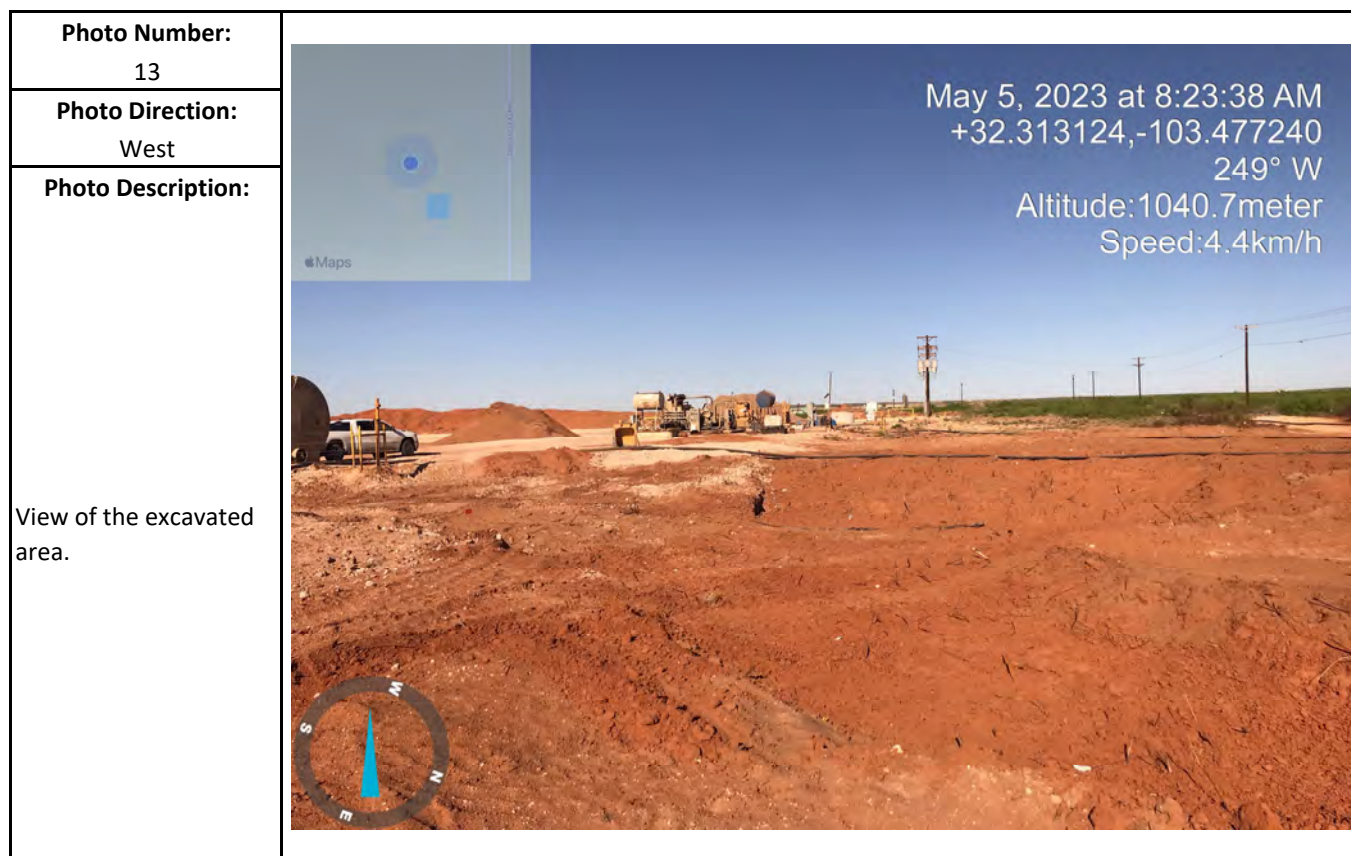
## Photographic Log

<b>Photo Number:</b> 11	 <p>May 5, 2023 at 8:22:40 AM +32.313280,-103.477646 150° SE Altitude: 1040.2 meter Speed: 4.1 km/h</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area.	


<b>Photo Number:</b> 12	 <p>May 5, 2023 at 8:22:45 AM +32.313286,-103.477523 80° E Altitude: 1039.9 meter Speed: 3.7 km/h</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the excavated area.	




## Photographic Log




## Photographic Log


<b>Photo Number:</b> 15	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 16	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	



## Photographic Log


<b>Photo Number:</b> 17	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 18	
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	





## Photographic Log

<b>Photo Number:</b> 19	 <p>5/19/23, 12:30 PM +32.313254,-103.477247 NM,Jal,Antelope Rd</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 20	 <p>5/19/23, 12:30 PM +32.313181,-103.477339 NM,Jal,Antelope Rd</p>
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

## Photographic Log

<b>Photo Number:</b> 21	 <p>5/19/23, 12:31 PM +32.313147,-103.477438 NM,Jal,Antelope Rd</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 22	 <p>5/19/23, 12:31 PM +32.313147,-103.477438 NM,Jal,Antelope Rd</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

## **Appendix D**

### **Laboratory Analytical Reports**



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

May 03, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ANTELOPE 9 B2NC STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 04/28/23 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/28/2023  
 Reported: 05/03/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 04/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 1 @ 1' (H232106-01)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2023	ND	2.11	106	2.00	1.89	
Toluene*	<0.050	0.050	05/02/2023	ND	2.19	110	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/02/2023	ND	2.17	108	2.00	1.75	
Total Xylenes*	<0.150	0.150	05/02/2023	ND	6.74	112	6.00	1.77	
Total BTEx	<0.300	0.300	05/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	<10.0	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/28/2023  
 Reported: 05/03/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 04/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 2 @ 1' (H232106-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2023	ND	2.11	106	2.00	1.89	
Toluene*	<0.050	0.050	05/02/2023	ND	2.19	110	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/02/2023	ND	2.17	108	2.00	1.75	
Total Xylenes*	<0.150	0.150	05/02/2023	ND	6.74	112	6.00	1.77	
Total BTEX	<0.300	0.300	05/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	<10.0	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/28/2023  
 Reported: 05/03/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 04/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 3 @ 1' (H232106-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2023	ND	2.11	106	2.00	1.89	
Toluene*	<0.050	0.050	05/02/2023	ND	2.19	110	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/02/2023	ND	2.17	108	2.00	1.75	
Total Xylenes*	<0.150	0.150	05/02/2023	ND	6.74	112	6.00	1.77	
Total BTEX	<0.300	0.300	05/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	<10.0	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/28/2023  
 Reported: 05/03/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 04/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 4 @ 1' (H232106-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2023	ND	2.08	104	2.00	1.60	
Toluene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	0.626	
Ethylbenzene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	1.41	
Total Xylenes*	<0.150	0.150	05/01/2023	ND	6.60	110	6.00	2.06	
Total BTEx	<0.300	0.300	05/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	11.0	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/28/2023  
 Reported: 05/03/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 04/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 5 @ 1' (H232106-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2023	ND	2.08	104	2.00	1.60		
Toluene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	0.626		
Ethylbenzene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	1.41		
Total Xylenes*	<0.150	0.150	05/01/2023	ND	6.60	110	6.00	2.06		
Total BTEx	<0.300	0.300	05/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	<10.0	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/28/2023  
 Reported: 05/03/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 04/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 6 @ 1' (H232106-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2023	ND	2.08	104	2.00	1.60		
Toluene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	0.626		
Ethylbenzene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	1.41		
Total Xylenes*	<0.150	0.150	05/01/2023	ND	6.60	110	6.00	2.06		
Total BTEX	<0.300	0.300	05/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	<10.0	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/28/2023  
 Reported: 05/03/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 04/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 7 @ 2' (H232106-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2023	ND	2.08	104	2.00	1.60	
Toluene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	0.626	
Ethylbenzene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	1.41	
Total Xylenes*	<0.150	0.150	05/01/2023	ND	6.60	110	6.00	2.06	
Total BTEX	<0.300	0.300	05/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	<10.0	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/28/2023  
 Reported: 05/03/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 04/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 8 @ 1' (H232106-08)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2023	ND	2.08	104	2.00	1.60	
Toluene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	0.626	
Ethylbenzene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	1.41	
Total Xylenes*	<0.150	0.150	05/01/2023	ND	6.60	110	6.00	2.06	
Total BTX	<0.300	0.300	05/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	<10.0	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/28/2023  
 Reported: 05/03/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 04/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 9 @ 1' (H232106-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2023	ND	2.08	104	2.00	1.60		
Toluene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	0.626		
Ethylbenzene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	1.41		
Total Xylenes*	<0.150	0.150	05/01/2023	ND	6.60	110	6.00	2.06		
Total BTEx	<0.300	0.300	05/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	<10.0	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/28/2023  
 Reported: 05/03/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 04/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 10 @ 1' (H232106-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2023	ND	2.08	104	2.00	1.60		
Toluene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	0.626		
Ethylbenzene*	<0.050	0.050	05/01/2023	ND	2.12	106	2.00	1.41		
Total Xylenes*	<0.150	0.150	05/01/2023	ND	6.60	110	6.00	2.06		
Total BTEx	<0.300	0.300	05/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	<10.0	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane 66.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

---

Celey D. Keene, Lab Director/Quality Manager





# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Page 1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: 2617 West Marland				Company: Mewbourne																	
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																	
Phone #: (575) 264-9884 Fax #:				Address:																	
Project #: 18093 Project Owner: Mewbourne				City:																	
Project Name: Antelope 9 B2NC State Cor 1H				State: Zip:																	
Project Location: Rural Lea County, NM				Phone #:																	
Sampler Name: Quentin Reyna				Fax #:																	
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME							
4232106																					
1	FL1 @ 1'	C	1			X				X			4/27/23		X	X	X				
2	FL2 @ 1'	C	1			X				X			4/27/23		X	X	X				
3	FL3 @ 1'	C	1			X				X			4/27/23		X	X	X				
4	FL4 @ 1'	C	1			X				X			4/27/23		X	X	X				
5	FL5 @ 1'	C	1			X				X			4/27/23		X	X	X				
6	FL6 @ 1'	C	1			X				X			4/27/23		X	X	X				
7	FL7 @ 2'	C	1			X				X			4/27/23		X	X	X				
8	FL8 @ 1'	C	1			X				X			4/27/23		X	X	X				
9	FL9 @ 1'	C	1			X				X			4/27/23		X	X	X				
10	FL10 @ 1'	C	1			X				X			4/27/23		X	X	X				
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																					
Relinquished By: <i>[Signature]</i>				Date: 4/28/23 Time: 1455				Received By: <i>[Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:									
Relinquished By:				Date:				Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:									
Delivered By: (Circle One) <i>-O.P. - C.O.U.</i>				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: <i>[Signature]</i> (Initials)				REMARKS:									
Sampler - UPS - Bus - Other: <i>-15: #13</i>				Please email results and copy of CoC to pm@etechenv.com.																	

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

---

May 05, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ANTELOPE 9 B2NC STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/02/23 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 11 @ 3' (H232141-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2023	ND	2.07	103	2.00	9.05	
Toluene*	<0.050	0.050	05/03/2023	ND	2.16	108	2.00	8.48	
Ethylbenzene*	<0.050	0.050	05/03/2023	ND	2.10	105	2.00	9.43	
Total Xylenes*	<0.150	0.150	05/03/2023	ND	6.58	110	6.00	10.8	
Total BTX	<0.300	0.300	05/03/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/03/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	193	96.4	200	2.03	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	186	92.8	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 12 @ 3' (H232141-02)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05		
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8		
Total BTX	<0.300	0.300	05/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	193	96.4	200	2.03	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	186	92.8	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 13 @ 3' (H232141-03)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05	
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48	
Ethylbenzene*	<b>0.230</b>	0.050	05/04/2023	ND	2.10	105	2.00	9.43	GC-NC1
Total Xylenes*	<b>4.18</b>	0.150	05/04/2023	ND	6.58	110	6.00	10.8	GC-NC1
Total BTEX	<b>4.41</b>	0.300	05/04/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 230 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>176</b>	16.0	05/03/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>202</b>	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<b>1930</b>	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<b>301</b>	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 14 @ 3.5' (H232141-04)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05	
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48	
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43	
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8	
Total BTX	<0.300	0.300	05/04/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/03/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 15 @ 1' (H232141-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05		
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8		
Total BTEx	<0.300	0.300	05/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 16 @ 2.5' (H232141-06)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05	
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48	
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43	
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8	
Total BTX	<0.300	0.300	05/04/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/03/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 17 @ 1' (H232141-07)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05	
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48	
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43	
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8	
Total BTX	<0.300	0.300	05/04/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/03/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 18 @ 1' (H232141-08)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05		
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8		
Total BTX	<0.300	0.300	05/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 19 @ 2.5' (H232141-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05		
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8		
Total BTEX	<0.300	0.300	05/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 70.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 20 @ 1' (H232141-10)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05		
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8		
Total BTX	<0.300	0.300	05/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	308	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	35.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 64.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 21 @ 2.5' (H232141-11)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05		
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8		
Total BTEX	<0.300	0.300	05/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 22 @ 2.5' (H232141-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05		
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8		
Total BTEx	<0.300	0.300	05/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 23 @ 2.5' (H232141-13)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05	
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48	
Ethylbenzene*	<b>0.064</b>	0.050	05/04/2023	ND	2.10	105	2.00	9.43	GC-NC1
Total Xylenes*	<b>0.803</b>	0.150	05/04/2023	ND	6.58	110	6.00	10.8	GC-NC1
Total BTEX	<b>0.868</b>	0.300	05/04/2023	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32.0</b>	16.0	05/03/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>76.0</b>	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<b>1060</b>	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<b>175</b>	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/02/2023  
 Reported: 05/05/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 24 @ 2.5' (H232141-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	2.07	103	2.00	9.05		
Toluene*	<0.050	0.050	05/04/2023	ND	2.16	108	2.00	8.48		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.10	105	2.00	9.43		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.58	110	6.00	10.8		
Total BTEX	<0.300	0.300	05/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	194	97.0	200	23.9	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	190	94.8	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



## ARDINAL LABORATORIES

**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. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: Newbourne																	
City: Lovington State: NM Zip: 88260				Attn: Connor Walker																	
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																	
Project #: 18093 Project Owner: Newbourne				City:																	
Project Name: Antelope 9 B2NC state com 1H				State: Zip:																	
Project Location: Rural Lea Co., NM				Phone #:																	
Sampler Name: Quentin Rayna				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING									
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		ACID/BASE: ICE / COOL OTHER :											
														DATE		TIME					
1		FL 11 @ 3'		C		1		X		Y				5/1/23		09:00		X X X			
2		FL 12 @ 3'		C		1		X		Y				5/1/23		09:25		X X X			
3		FL 13 @ 3'		C		1		Y		Y				5/1/23		09:50		X X X			
4		FL 14 @ 3.5'		C		1		X		Y				5/1/23		10:15		X X X			
5		FL 15 @ 1'		C		1		X		Y				5/1/23		10:40		X X X			
6		FL 16 @ 2.5'		C		1		X		Y				5/1/23		11:05		X X X			
7		FL 17 @ 1'		C		1		X		Y				5/1/23		11:30		X X X			
8		FL 18 @ 1'		C		1		X		Y				5/1/23		11:55		X X X			
9		FL 19 @ 2.5'		C		1		X		Y				5/1/23		12:30		X X X			
10		FL 20 @ 1'		C		1		X		Y				5/1/23		12:55		X X X			
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Relinquished By:				Date:				Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:					
Time:												Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:					
Relinquished By:				Date:				Received By:				REMARKS:									
Time:																					
Delivered By: (Circle One)				1.4: C.O.U.C.				Sample Condition				CHECKED BY:									
Sampler - UPS - Bus - Other:				0.8: #113				Cool Intact				(Initials)									
								Yes <input type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>									

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

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May 08, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ANTELOPE 9 B2NC STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/03/23 12:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/03/2023	Sampling Date:	05/02/2023
Reported:	05/08/2023	Sampling Type:	Soil
Project Name:	ANTELOPE 9 B2NC STATE COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18093	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

**Sample ID: FL 26 @ 2.5' (H232181-01)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	1.99	99.3	2.00	10.1		
Toluene*	<0.050	0.050	05/04/2023	ND	2.03	101	2.00	12.9		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.12	106	2.00	11.2		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.08	101	6.00	9.71		
Total BTEX	<0.300	0.300	05/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	211	105	200	2.89	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 27 @ 2' (H232181-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2023	ND	1.99	99.3	2.00	10.1	
Toluene*	<0.050	0.050	05/04/2023	ND	2.03	101	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.12	106	2.00	11.2	
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.08	101	6.00	9.71	
Total BTEX	<0.300	0.300	05/04/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/04/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	211	105	200	2.89	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 28 @ 3' (H232181-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	1.99	99.3	2.00	10.1		
Toluene*	<0.050	0.050	05/04/2023	ND	2.03	101	2.00	12.9		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	2.12	106	2.00	11.2		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	6.08	101	6.00	9.71		
Total BTEx	<0.300	0.300	05/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/04/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	<10.0	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 29 @ 2' (H232181-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2023	ND	1.99	99.3	2.00	10.1	
Toluene*	<0.050	0.050	05/05/2023	ND	2.03	101	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/05/2023	ND	2.12	106	2.00	11.2	
Total Xylenes*	<0.150	0.150	05/05/2023	ND	6.08	101	6.00	9.71	
Total BTX	<0.300	0.300	05/05/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	<10.0	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 30 @ 2' (H232181-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2023	ND	1.99	99.3	2.00	10.1	
Toluene*	<0.050	0.050	05/05/2023	ND	2.03	101	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/05/2023	ND	2.12	106	2.00	11.2	
Total Xylenes*	<0.150	0.150	05/05/2023	ND	6.08	101	6.00	9.71	
Total BTX	<0.300	0.300	05/05/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/04/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	<10.0	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 31 @ 1' (H232181-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2023	ND	1.99	99.3	2.00	10.1	
Toluene*	<0.050	0.050	05/05/2023	ND	2.03	101	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/05/2023	ND	2.12	106	2.00	11.2	
Total Xylenes*	<0.150	0.150	05/05/2023	ND	6.08	101	6.00	9.71	
Total BTX	<0.300	0.300	05/05/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/04/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	<10.0	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 32 @ 1' (H232181-07)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2023	ND	1.97	98.3	2.00	1.67	
Toluene*	<0.050	0.050	05/04/2023	ND	1.99	99.4	2.00	2.84	
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	1.96	97.9	2.00	1.81	
Total Xylenes*	<0.150	0.150	05/04/2023	ND	5.96	99.3	6.00	1.40	
Total BTX	<0.300	0.300	05/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	11.4	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 33 @ 1' (H232181-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2023	ND	1.97	98.3	2.00	1.67	
Toluene*	<0.050	0.050	05/04/2023	ND	1.99	99.4	2.00	2.84	
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	1.96	97.9	2.00	1.81	
Total Xylenes*	<0.150	0.150	05/04/2023	ND	5.96	99.3	6.00	1.40	
Total BTEX	<0.300	0.300	05/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	<10.0	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 34 @ 1' (H232181-09)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	1.97	98.3	2.00	1.67		
Toluene*	<0.050	0.050	05/04/2023	ND	1.99	99.4	2.00	2.84		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	1.96	97.9	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	5.96	99.3	6.00	1.40		
Total BTX	<0.300	0.300	05/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	<10.0	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 35 @ 1' (H232181-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2023	ND	1.97	98.3	2.00	1.67		
Toluene*	<0.050	0.050	05/05/2023	ND	1.99	99.4	2.00	2.84		
Ethylbenzene*	<0.050	0.050	05/05/2023	ND	1.96	97.9	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/05/2023	ND	5.96	99.3	6.00	1.40		
Total BTEx	<0.300	0.300	05/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	18.3	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 36 @ 1' (H232181-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2023	ND	1.97	98.3	2.00	1.67		
Toluene*	<0.050	0.050	05/05/2023	ND	1.99	99.4	2.00	2.84		
Ethylbenzene*	<0.050	0.050	05/05/2023	ND	1.96	97.9	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/05/2023	ND	5.96	99.3	6.00	1.40		
Total BTEx	<0.300	0.300	05/05/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	<10.0	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 37 @ 1' (H232181-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2023	ND	1.97	98.3	2.00	1.67		
Toluene*	<0.050	0.050	05/05/2023	ND	1.99	99.4	2.00	2.84		
Ethylbenzene*	<0.050	0.050	05/05/2023	ND	1.96	97.9	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/05/2023	ND	5.96	99.3	6.00	1.40		
Total BTEX	<0.300	0.300	05/05/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	<10.0	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/03/2023  
 Reported: 05/08/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 38 @ 1' (H232181-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2023	ND	1.97	98.3	2.00	1.67		
Toluene*	<0.050	0.050	05/05/2023	ND	1.99	99.4	2.00	2.84		
Ethylbenzene*	<0.050	0.050	05/05/2023	ND	1.96	97.9	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/05/2023	ND	5.96	99.3	6.00	1.40		
Total BTEX	<0.300	0.300	05/05/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/04/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2023	ND	211	105	200	2.89	
DRO >C10-C28*	54.5	10.0	05/04/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	05/04/2023	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

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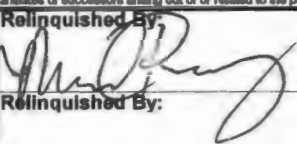
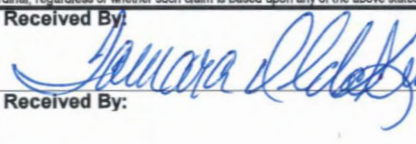
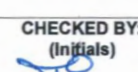
Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
<b>Project Manager:</b> Lance Crenshaw				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																					
<b>Address:</b> P.O. Box 301				<b>Company:</b> Newbourne																									
<b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260				<b>Attn:</b> Connor Walker																									
<b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429				<b>Address:</b>																									
<b>Project #:</b> 18093 <b>Project Owner:</b> Newbourne				<b>City:</b>																									
<b>Project Name:</b> Antelope 9 B2NC state com 1H				<b>State:</b> <b>Zip:</b>																									
<b>Project Location:</b> Rural Lea Co., NM				<b>Phone #:</b>																									
<b>Sampler Name:</b> Winton Reyna				<b>Fax #:</b>																									
FOR LAB USE ONLY																													
<b>Lab I.D.</b> H23281		<b>Sample I.D.</b>		GRAB OR (COMP. # CONTAINERS)	<b>MATRIX</b>					<b>PRESERV.</b>		<b>SAMPLING</b>																	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :													DATE	TIME		
1 2 3 4 5 6 7 8 9 10		FL 26 @ 8.5'		C	1			X				X	5/2/23	8:00	X	X	X												
		FL 27 @ 2'		C	1			X				X	5/2/23	8:30	X	X	X												
		FL 28 @ 3'		C	1			X				X	5/2/23	9:00	X	X	X												
		FL 29 @ 2'		C	1			X				X	5/2/23	9:20	X	X	X												
		FL 30 @ 2'		C	1			X				X	5/2/23	9:40	X	X	X												
		FL 31 @ 1'		C	1			X				X	5/2/23	10:00	X	X	X												
		FL 32 @ 1'		C	1			X				X	5/2/23	10:20	X	X	X												
		FL 33 @ 1'		C	1			X				X	5/2/23	10:50	X	X	X												
		FL 34 @ 1'		C	1			X				X	5/2/23	11:20	X	X	X												
		FL 35 @ 1'		C	1			X				X	5/2/23	11:50	X	X	X												
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																													
<b>Relinquished By:</b> 				<b>Date:</b> 5-3-23 <b>Time:</b> 1208		<b>Received By:</b> 				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b> <b>Add'l Fax #:</b>		<b>REMARKS:</b> Standard															
<b>Relinquished By:</b>				<b>Date:</b> <b>Time:</b>		<b>Received By:</b>				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b> <b>Add'l Fax #:</b>																	
<b>Delivered By: (Circle One)</b> <b>Sampler - UPS - Bus - Other:</b> - 8.8°C / - 9.4°C				<b>Date:</b> <b>Time:</b>		<b>Received By:</b>				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b> <b>Add'l Fax #:</b>																	
<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No																													
<b>CHECKED BY:</b> (Initials) 																													
Please email results to pm@etechenv.com.																													





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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

[illegible]

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476





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May 09, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ANTELOPE B2NC

Enclosed are the results of analyses for samples received by the laboratory on 05/05/23 10:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 1 (H232227-01)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92		
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75		
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35		
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89		
Total BTX	<0.300	0.300	05/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/08/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	169	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	22.1	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 2 (H232227-02)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92	
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89	
Total BTX	<0.300	0.300	05/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	118	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	17.6	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 3 (H232227-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92	
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89	
Total BTEX	<0.300	0.300	05/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 1 (H232227-04)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92		
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75		
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35		
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89		
Total BTX	<0.300	0.300	05/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	24.8	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 2 (H232227-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92		
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75		
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35		
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89		
Total BTEX	<0.300	0.300	05/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 1 (H232227-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92		
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75		
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35		
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89		
Total BTEX	<0.300	0.300	05/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	323	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	54.8	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 2 (H232227-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92		
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75		
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35		
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89		
Total BTEX	<0.300	0.300	05/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	159	79.5	200	5.37	QR-03
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	163	81.7	200	6.15	QR-03
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 3 (H232227-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92		
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75		
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35		
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89		
Total BTEX	<0.300	0.300	05/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2023	ND	173	86.6	200	1.79	
DRO >C10-C28*	143	10.0	05/08/2023	ND	191	95.4	200	2.81	
EXT DRO >C28-C36	17.7	10.0	05/08/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 4 (H232227-09)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92		
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75		
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35		
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89		
Total BTEX	<0.300	0.300	05/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/08/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	159	79.5	200	5.37	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	163	81.7	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 5 (H232227-10)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92	
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89	
Total BTEX	<0.300	0.300	05/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2023	ND	173	86.6	200	1.79	
DRO >C10-C28*	37.3	10.0	05/08/2023	ND	191	95.4	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 (H232227-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/06/2023	ND	1.95	97.5	2.00	5.26		
Toluene*	<0.050	0.050	05/06/2023	ND	1.95	97.7	2.00	3.92		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	3.79		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.13	102	6.00	4.51		
Total BTEx	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	159	79.5	200	5.37	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	163	81.7	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 2 (H232227-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/06/2023	ND	1.95	97.5	2.00	5.26		
Toluene*	<0.050	0.050	05/06/2023	ND	1.95	97.7	2.00	3.92		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	3.79		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.13	102	6.00	4.51		
Total BTEx	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	159	79.5	200	5.37	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	163	81.7	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/09/2023  
 Project Name: ANTELOPE B2NC  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 3 (H232227-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/06/2023	ND	1.95	97.5	2.00	5.26		
Toluene*	<0.050	0.050	05/06/2023	ND	1.95	97.7	2.00	3.92		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	3.79		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.13	102	6.00	4.51		
Total BTEX	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2023	ND	173	86.6	200	1.79	
DRO >C10-C28*	131	10.0	05/08/2023	ND	191	95.4	200	2.81	
EXT DRO >C28-C36	14.3	10.0	05/08/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





# **ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

10/2

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
<b>Project Manager:</b> Lance Crenshaw				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
<b>Address:</b> P.O. Box 301				<b>Company:</b> Mowbray																	
<b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260				<b>Attn:</b> Connor Walker																	
<b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429				<b>Address:</b>																	
<b>Project #:</b> <b>Project Owner:</b>				<b>City:</b>																	
<b>Project Name:</b> Antelope B2NC				<b>State:</b> <b>Zip:</b>																	
<b>Project Location:</b>				<b>Phone #:</b>																	
<b>Sampler Name:</b> Quentin Rayson				<b>Fax #:</b>																	
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME								
H232227																					
1	EW1											5-3									
2	EW2																				
3	EW3																				
4	WW1																				
5	WW2																				
6	NW1																				
7	NW2																				
8	NW3																				
9	NW4																				
10	NW5																				

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

<b>Relinquished By:</b>  <b>Date:</b> 5-5-23 <b>Time:</b> 1010	<b>Received By:</b>  <b>Date:</b> <b>Time:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b>
<b>Relinquished By:</b>  <b>Date:</b> <b>Time:</b>	<b>Received By:</b>  <b>Date:</b> <b>Time:</b>	Please email results to pm@etechenv.com.
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:	<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	

#113  
 -60.5°C / -7.1°C  
 CHECKED BY: (Initials)  
 YO

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# **ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

2 of 2

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																																															
<b>Project Manager:</b> Lence Crenshaw				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																																															
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<b>Project Name:</b> Antelope BZNC				<b>State:</b> <b>Zip:</b>																																																																			
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<b>Sampler Name:</b> Quentin Raxson				<b>Fax #:</b>																																																																			
<div style="display: flex;"> <div style="flex: 1;"> <b>FOR LAB USE ONLY</b>   <b>Lab I.D.</b>                  H232227             </div> <div style="flex: 2;"> <b>Sample I.D.</b>                  11 SW1                  12 SW2                  13 SW3             </div> <div style="flex: 1;"> <table border="1"> <tr> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="4">MATRIX</th> <th colspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>SLUDGE</th> <th>OTHER:</th> <th>ACID/BASE:</th> <th>ICE / COOL</th> <th>OTHER:</th> </tr> <tr> <td>C</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> </div> <div style="flex: 1;"> <table border="1"> <tr> <th>DATE</th> <th>TIME</th> </tr> <tr> <td>5/3</td> <td></td> </tr> <tr> <td>5/7</td> <td></td> </tr> <tr> <td>5/3</td> <td></td> </tr> </table> </div> </div>																(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING		GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	C	1									C	1									C	1									DATE	TIME	5/3		5/7		5/3	
(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING																																																															
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<b>Relinquished By:</b> [Signature]				<b>Date:</b> 5/3/23 <b>Time:</b> 1010				<b>Received By:</b> [Signature]				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b>																																																											
<b>Relinquished By:</b> [Signature]				<b>Date:</b> <b>Time:</b>				<b>Received By:</b>				Please email results to pm@etechenv.com.																																																											
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:				#13 -6.5°C / -7.1°C				<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				<b>CHECKED BY:</b> (Initials) [Signature]																																																											

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

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May 11, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ANTELOPE 9 B2NC STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/09/23 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/09/2023	Sampling Date:	05/08/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	ANTELOPE 9 B2NC STATE COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18093	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

**Sample ID: FL 13 @ 3.5' (H232283-01)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	86.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	93.6 %	49.1-148							

**Sample ID: FL 20 @ 2' (H232283-02)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	82.5 %	48.2-134							
Surrogate: 1-Chlorooctadecane	88.4 %	49.1-148							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/09/2023  
 Reported: 05/11/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 23 @ 3' (H232283-03)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	194	96.9	200	3.19	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	185	92.4	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					
Surrogate: 1-Chlorooctane	77.5 %	48.2-134							
Surrogate: 1-Chlorooctadecane	82.2 %	49.1-148							

Cardinal Laboratories

\*=Accredited Analyte

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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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Cardinal Laboratories

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

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Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																																				
<b>Project Manager:</b>				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8016M)</div> <div>BTEX (8021B)</div> </div>																																																				
<b>Address:</b> P.O. Box 301				<b>Company:</b> <i>McBourne</i>																																																								
<b>City:</b> Lovington		<b>State:</b> NM		<b>Zip:</b> 88260		<b>Attn:</b> <i>Connie Walker</i>																																																						
<b>Phone #:</b> (575) 396-2378		<b>Fax #:</b> (575) 396-1429		<b>Address:</b>																																																								
<b>Project #:</b>		<b>Project Owner:</b>		<b>City:</b>																																																								
<b>Project Name:</b> <i>Anklope 9B2AC State Com 1</i>				<b>State:</b>																<b>Zip:</b>																																								
<b>Project Location:</b>				<b>Phone #:</b>																																																								
<b>Sampler Name:</b> <i>Quentin Rerna</i>				<b>Fax #:</b>																																																								
<div style="display: flex;"> <div style="flex: 1;"> <b>FOR LAB USE ONLY</b>   <b>Lab I.D.</b>   <i>H232283</i> </div> <div style="flex: 2;"> <b>Sample I.D.</b>   <table border="1"> <tr> <td>1</td> <td>FL13 @ 3.5'</td> <td>(G)RAB OR (C)OMP.</td> <td># CONTAINERS</td> <td>GROUNDWATER</td> <td>WASTEWATER</td> <td>SOIL</td> <td>OIL</td> <td>SLUDGE</td> <td>OTHER :</td> <td>ACID/BASE:</td> <td>ICE / COOL</td> <td>OTHER :</td> <td>DATE</td> <td>TIME</td> </tr> <tr> <td>2</td> <td>FL20 @ 2'</td> <td>C</td> <td>1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>5-8</td> <td></td> </tr> <tr> <td>3</td> <td>FL23 @ 3'</td> <td>C</td> <td>1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> </tr> </table> </div> </div>																1	FL13 @ 3.5'	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	2	FL20 @ 2'	C	1			X					X		5-8		3	FL23 @ 3'	C	1			X					X			
1	FL13 @ 3.5'	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																																														
2	FL20 @ 2'	C	1			X					X		5-8																																															
3	FL23 @ 3'	C	1			X					X																																																	
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<b>Relinquished By:</b> <i>[Signature]</i>				<b>Date:</b> 5-9-23 <b>Time:</b> 1055		<b>Received By:</b> <i>[Signature]</i>				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b> <b>Add'l Fax #:</b>																																																
<b>Relinquished By:</b>				<b>Date:</b> <b>Time:</b>		<b>Received By:</b>				<b>REMARKS:</b>																																																		
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:				<b>#113</b> <i>1.6c / 1.0c</i>		<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>CHECKED BY:</b> (Initials) <i>[Signature]</i>		Please email results to pm@etechenv.com.																																																		

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

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May 16, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ANTELOPE 9 B2NC STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/11/23 13:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/11/2023  
 Reported: 05/16/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/11/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW1A (H232361-01)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2023	ND	217	109	200	1.37	
DRO >C10-C28*	<10.0	10.0	05/12/2023	ND	205	102	200	0.277	
EXT DRO >C28-C36	<10.0	10.0	05/12/2023	ND					
Surrogate: 1-Chlorooctane	114 %	48.2-134							
Surrogate: 1-Chlorooctadecane	112 %	49.1-148							

**Sample ID: EW2A (H232361-02)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2023	ND	217	109	200	1.37	
DRO >C10-C28*	<10.0	10.0	05/12/2023	ND	205	102	200	0.277	
EXT DRO >C28-C36	<10.0	10.0	05/12/2023	ND					
Surrogate: 1-Chlorooctane	109 %	48.2-134							
Surrogate: 1-Chlorooctadecane	106 %	49.1-148							

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/11/2023  
 Reported: 05/16/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/11/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NW1A (H232361-03)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2023	ND	233	117	200	5.53	
<b>DRO &gt;C10-C28*</b>	<b>11.2</b>	10.0	05/12/2023	ND	227	113	200	8.19	
EXT DRO >C28-C36	<10.0	10.0	05/12/2023	ND					
Surrogate: 1-Chlorooctane	95.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	101 %	49.1-148							

**Sample ID: NW3A (H232361-04)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2023	ND	233	117	200	5.53	
DRO >C10-C28*	<10.0	10.0	05/12/2023	ND	227	113	200	8.19	
EXT DRO >C28-C36	<10.0	10.0	05/12/2023	ND					
Surrogate: 1-Chlorooctane	95.6 %	48.2-134							
Surrogate: 1-Chlorooctadecane	101 %	49.1-148							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/11/2023  
 Reported: 05/16/2023  
 Project Name: ANTELOPE 9 B2NC STATE COM 1H  
 Project Number: 18093  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 05/11/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW3A (H232361-05)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2023	ND	233	117	200	5.53	
DRO >C10-C28*	<10.0	10.0	05/12/2023	ND	227	113	200	8.19	
EXT DRO >C28-C36	<10.0	10.0	05/12/2023	ND					
Surrogate: 1-Chlorooctane	94.5 %	48.2-134							
Surrogate: 1-Chlorooctadecane	99.5 %	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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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 W Marland				Company: <u>Mewbourne</u>															
City: Hobbs State: NM Zip: 88240				Attn: <u>Connor Walker</u>															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: <u>18093</u> Project Owner:				City:															
Project Name: <u>Antelope G BZNC STATE CoM 1 H</u>				State: Zip:															
Project Location:				Phone #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Sampler Name: <u>Quantis Apex</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.				Sample I.D.															
<u>H232361</u>																			
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## **Appendix E**

### **Regulatory Correspondence**

**From:** [Lance Crenshaw](#)  
**To:** [Enviro, OCD, EMNRD](#)  
**Cc:** [Ben Arguijo](#); [Connor Walker](#); [Joel Lowry](#)  
**Subject:** Sampling Notification  
**Date:** Monday, May 8, 2023 11:03:47 AM

---

This email serves as notice that Etech intends to collect excavation confirmation soil samples on May 12-15 from the following locations/reportable release sites:

Mewbourne Oil Co –Antelope 9 B2NC State Com #001H- nAPP2311029101

Mewbourne Oil Co- CWMS Fleetwood Riser- napp2308026482

Mewbourne Oil Co- Malaga 30 MP Battery Fire – napp2305942242

Mewbourne Oil Co – Greyhound Booster – napp2311157492

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email [lance@etechenv.com](mailto:lance@etechenv.com).

**Lance Crenshaw**  
**Etech Environmental & Safety Solutions**  
**575-631-2532**



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
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

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

CONDITIONS  
  
Action 237955

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 237955
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	10/2/2023