

### SPILL VOLUME CALCULATIONS

INPUT DATA:						(click "Reset Page" button to return all values to zero)											
Total Area Calculations						Standing Liquid Calculations <small>(leave blank if 100% of free liquid has been recovered)</small>											
			saturated						liquid								
Total Surface Area			soil depth	% oil		Total Surface Area			depth	% oil							
Known Area #1	0	acres	or	5815	sq. ft.	4.2	in	0%	Known Area #1	0	acres	or	0	sq. ft.	0	in	0%
Known Area #2	0	acres	or	0	sq. ft.	0	in	0%	Known Area #2	0	acres	or	0	sq. ft.	0	in	0%
Known Area #3	0	acres	or	0	sq. ft.	0	in	0%	Known Area #3	0	acres	or	0	sq. ft.	0	in	0%
Known Area #4	0	acres	or	0	sq. ft.	0	in	0%	Known Area #4	0	acres	or	0	sq. ft.	0	in	0%
		width	length						width	length							
Rectangle Area #1	0	ft	0	ft	0	in	0%	Rectangle Area #1	0	ft	0	ft	0	in	0%		
Rectangle Area #2	0	ft	0	ft	0	in	0%	Rectangle Area #2	0	ft	0	ft	0	in	0%		
Rectangle Area #3	0	ft	0	ft	0	in	0%	Rectangle Area #3	0	ft	0	ft	0	in	0%		
Rectangle Area #4	0	ft	0	ft	0	in	0%	Rectangle Area #4	0	ft	0	ft	0	in	0%		
			saturated						liquid								
diameter			soil depth	% oil		diameter			depth	% oil							
Circle Area #1	0	ft	0	in	0%	Circle Area #1	0	ft	0	in	0%						
Circle Area #2	0	ft	0	in	0%	Circle Area #2	0	ft	0	in	0%						
Circle Area #3	0	ft	0	in	0%	Circle Area #3	0	ft	0	in	0%						
Circle Area #4	0	ft	0	in	0%	Circle Area #4	0	ft	0	in	0%						

Amount of Free Liquid Recovered:	0	bbl	Percentage of Oil in Free Liquid Recovered:	0%
Liquid Holding Factor*:	0.14	gal liquid/gal soil		
(see below)				
<u>Use the following when the spill wets the grains of the soil.</u>			<u>Use the following when the liquid completely fills the pore space of the soil.</u>	
* sand = .08 gallon liquid per gallon volume of soil.			Occurs when the spill soaked soil is contained by barriers, natural (or not).	
* gravelly (caliche) loam = .14 gallon liquid per gallon volume of soil.			* gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil.	
* sandy clay loam soil = .14 gallon liquid per gallon volume of soil.			* sandy loam = .5 gallon liquid per gallon volume of soil.	
* clay loam = .16 gallon liquid per gallon volume of soil.				

OUTPUT DATA:			<u>Saturated Soil Volume Calculations</u>			<u>Free Liquid Volume Calculations</u>						
Total Contaminated Volume:	2,035.3	cu. ft.	75.4	yds.	Total Free Liquid:	0.0	BBL	0.0	BBL			
						<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Water</u></td> <td style="text-align: center;"><u>Oil</u></td> </tr> <tr> <td style="text-align: center;">0.0</td> <td style="text-align: center;">0.0</td> </tr> </table>			<u>Water</u>	<u>Oil</u>	0.0	0.0
<u>Water</u>	<u>Oil</u>											
0.0	0.0											
<u>Estimated Volumes Spilled</u>			<u>Estimated Surface Damage</u>			<u>Recovered Volumes</u>						
Liquid in Soil:	50.7	BBL	0.0	BBL	Surface Area:	5,815.0	sq. ft.	0.1	acres			
Free Liquid:	0.0	BBL	0.0	BBL	Estimated oil recovered:	0.0	BBL					
Free Liquid Recovered:	0.0	BBL	0.0	BBL	Estimated water recovered:	0.0	BBL					
<b>Total Liquid Spilled:</b>	<b>50.7</b>	<b>BBL</b>	<b>0.0</b>	<b>BBL</b>								
	2,131.3	gal	0.0	gal								

# Remediation Summary & Soil Closure Request

## Mewbourne Oil Company Foreigner 33-4 Fed Battery

Eddy County, New Mexico  
Unit Letter "K", Section 33, Township 23 South, Range 28E East  
Latitude 32.259237 North, Longitude 104.093708 West  
NMOCD Reference No. nAPP2331839299

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
6309 Indiana Ave, Ste. D  
Lubbock, Texas 79413



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Ben J. Arguijo



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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 Foreigner 33-4 Fed Battery. Details of the release are summarized below:

<b>Location of Release Source</b>				
Latitude: <u>32.259237</u>		Longitude: <u>-104.093708</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>Foreigner 33-4 Fed Battery</u>		Site Type: <u>Tank Battery</u>		
Date Release Discovered: <u>11/3/2023</u>		API # (if applicable): <u>N/A</u>		
Unit Letter	Section	Township	Range	County
"K"	33	23S	28E	Eddy
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private (Name <u>Pardue Limited Company</u> )				
<b>Nature and Volume of Release</b>				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>51</u>		Volume Recovered (bbls) <u>40</u>	
	Is the concentration of dissolved chloride 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: <u>A water production tank overran.</u>				
<b>Initial Response</b>				
<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Less than or equal 25 (ft.)
What method was used to determine the depth to groundwater?	NMOSE iWaters Database
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	1,000 (ft.) to ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	½ to 1 (mi.)
An occupied permanent residence, school, hospital, institution or church?	1 to 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	1,000 (ft.) to ½ (mi.)
Any other fresh water well or spring?	1,000 (ft.) to ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	1 to 5 (mi.)
A wetland?	½ to 1 (mi.)
A subsurface mine?	> 5 (mi.)
A (non-karst) unstable area?	1,000 (ft.) to ½ (mi.)
Categorize the risk of this well/site being in a karst geology.	Medium
A 100-year floodplain?	1 to 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Searches of databases maintained by the NMOCD, New Mexico Office of the State Engineer (NMOSE), and United States Geological Survey (USGS) were conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Foreigner 33-4 Fed Battery release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information.

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

## 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 Standard for the Foreigner 33-4 Fed Battery release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
Less than or equal 25 (ft.)	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	-	-
	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

Requesting a remediation plan approval with this submission?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date did, or will, the remediation commence?	<u>12/12/2023</u>
On what date will (or was) the remediation complete(d)?	<u>12/20/2023</u>
What was the total surface area (sq. ft.) that has or will be remediated?	<u>5,815</u>
What was the total volume (cy) that has or will be remediated?	<u>280</u>
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	<u>R360 Red Bluff Facility</u>
NMOCD Disposal Facility ID?	<u>Texas</u>
Summarize any additional remediation activities not included by answers above.	<u>See below</u>

On December 12, 2023, remediation activities commenced at the Foreigner 33-4 Fed Battery release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria 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 floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria. Representative five-point composite confirmation soil samples were collected every 200 square feet from the floor and sidewalls of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	704	FL-10 @ 1'	12/14/2023	1	Excavated
TPH	<30.0	All submitted samples	12/14, 12/15 & 12/18/2023	0 - 2	In-Situ & Excavated (See Table 1)
GRO+DRO	<20.0	All submitted samples	12/14, 12/15 & 12/18/2023	0 - 2	In-Situ & Excavated (See Table 1)
Benzene	<0.050	All submitted samples	12/14, 12/15 & 12/18/2023	0 - 2	In-Situ & Excavated (See Table 1)
BTEX	<0.300	All submitted samples	12/14, 12/15 & 12/18/2023	0 - 2	In-Situ & Excavated (See Table 1)

Please reference Table 1 for additional information.

On December 14, 2023, Etech collected 16 confirmation soil samples (FL-1 @ 2' through FL-11 @ 1', NW-1, EW-1, SW-1, SW-2, and WW-1) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. The chloride concentration in soil sample FL-10 @ 1' exceeded the NMOCD Closure Criterion. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample FL-10 @ 1'.

On December 15, 2023, Etech collected 28 confirmation soil samples (FL-12 @ 1' through FL-20 @ 1', NW-2 through NW-7, EW-2 through EW-5, SW-2 through SW-6, and WW-2 through WW-5) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On December 18, 2023, Etech collected one (1) confirmation soil sample (FL-10 @ 2') from the floor of the excavated area. The soil sample was 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.

The final dimensions of the excavated area were approximately 54 to 175 feet in length, 10 to 46 feet in width, and one (1) to two (2) feet in depth. During the course of remediation activities, Etech transported approximately 280 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 280 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

## 5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What was the total surface area (sq. ft.) reclaimed?	0
What was the total volume (cy) reclaimed?	0
What is the total surface area (sq. ft.) that will <i>eventually</i> be reclaimed?	5,815
What is the total volume (cy) that will <i>eventually</i> be reclaimed?	280

The release was limited to the unlined containment area of an active tank battery. 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 areas were compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Final reclamation and re-vegetation will be conducted upon decommissioning and abandonment of the facility.

## 6.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria 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.

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 Foreigner 33-4 Fed Battery 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**

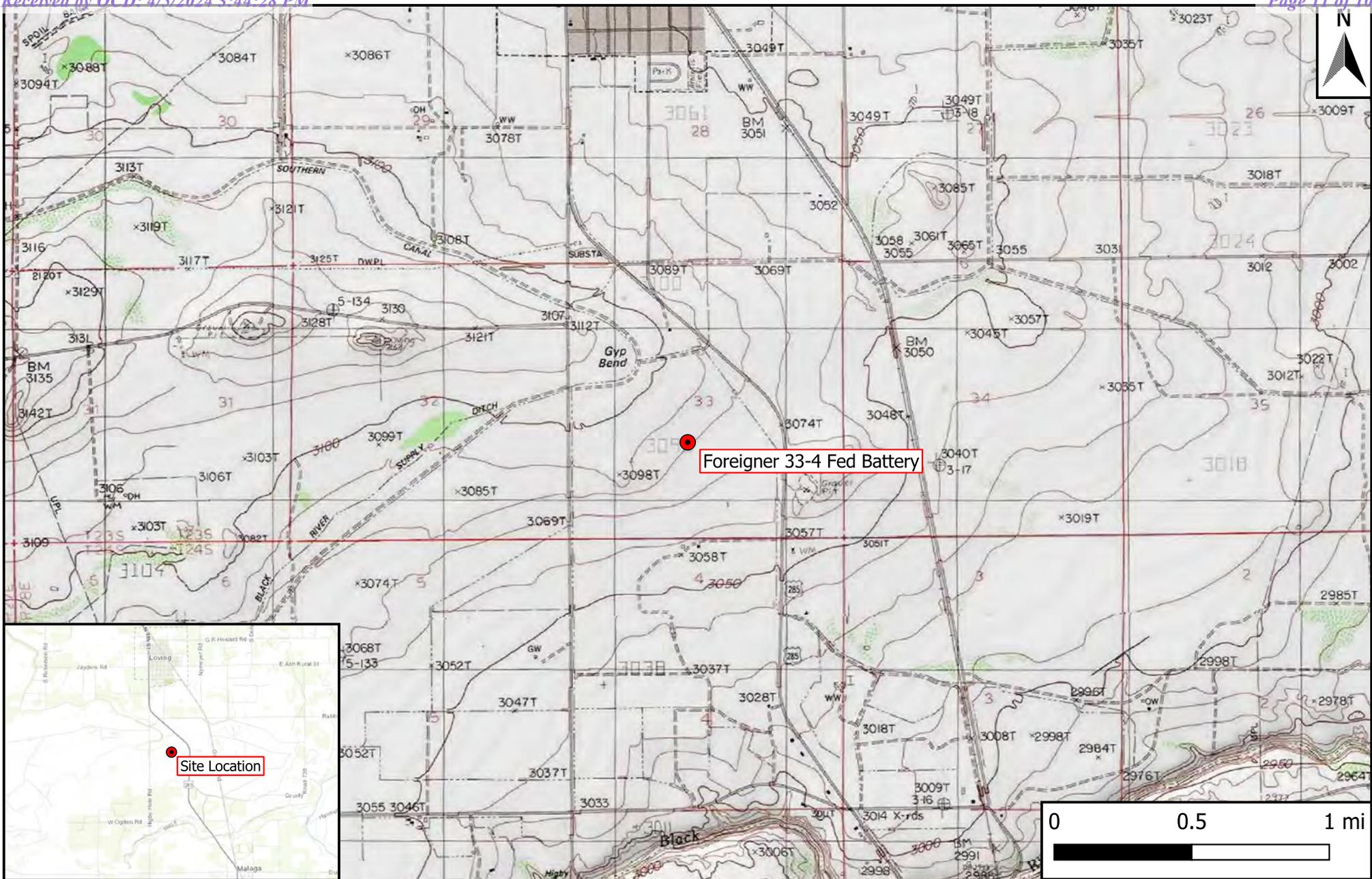
*Mewbourne Oil Company  
4801 Business Park Blvd.  
Hobbs, NM 88240*

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

*(Electronic Submission)*

# **Figure 1**

## **Site Location Map**



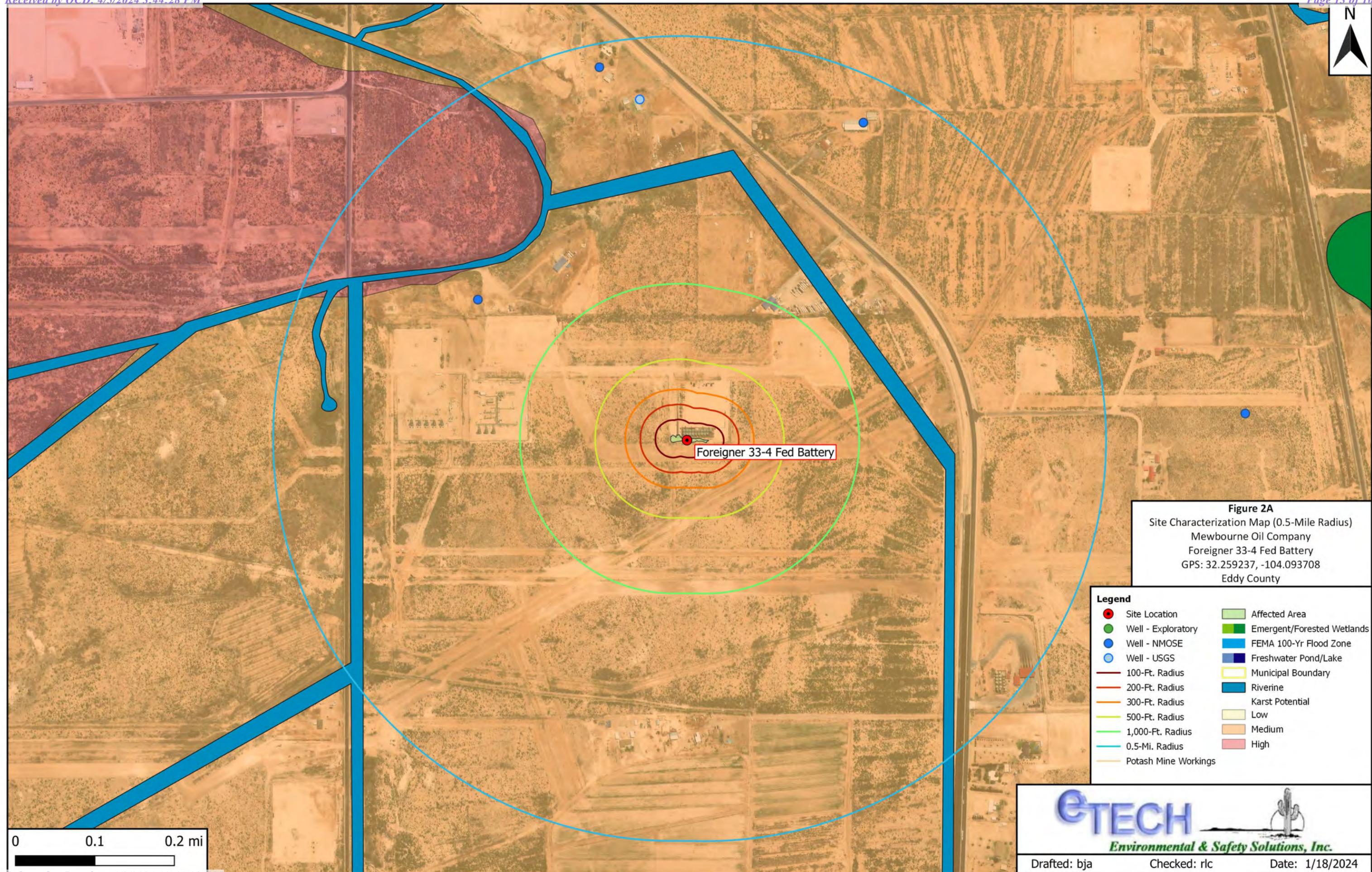
Legend  
 ● Site Location

**Figure 1**  
 Site Location Map  
 Mewbourne Oil Company  
 Foreigner 33-4 Fed Battery  
 GPS: 32.259237, -104.093708  
 Eddy County



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

### **Site Characterization Maps**

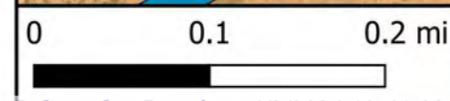


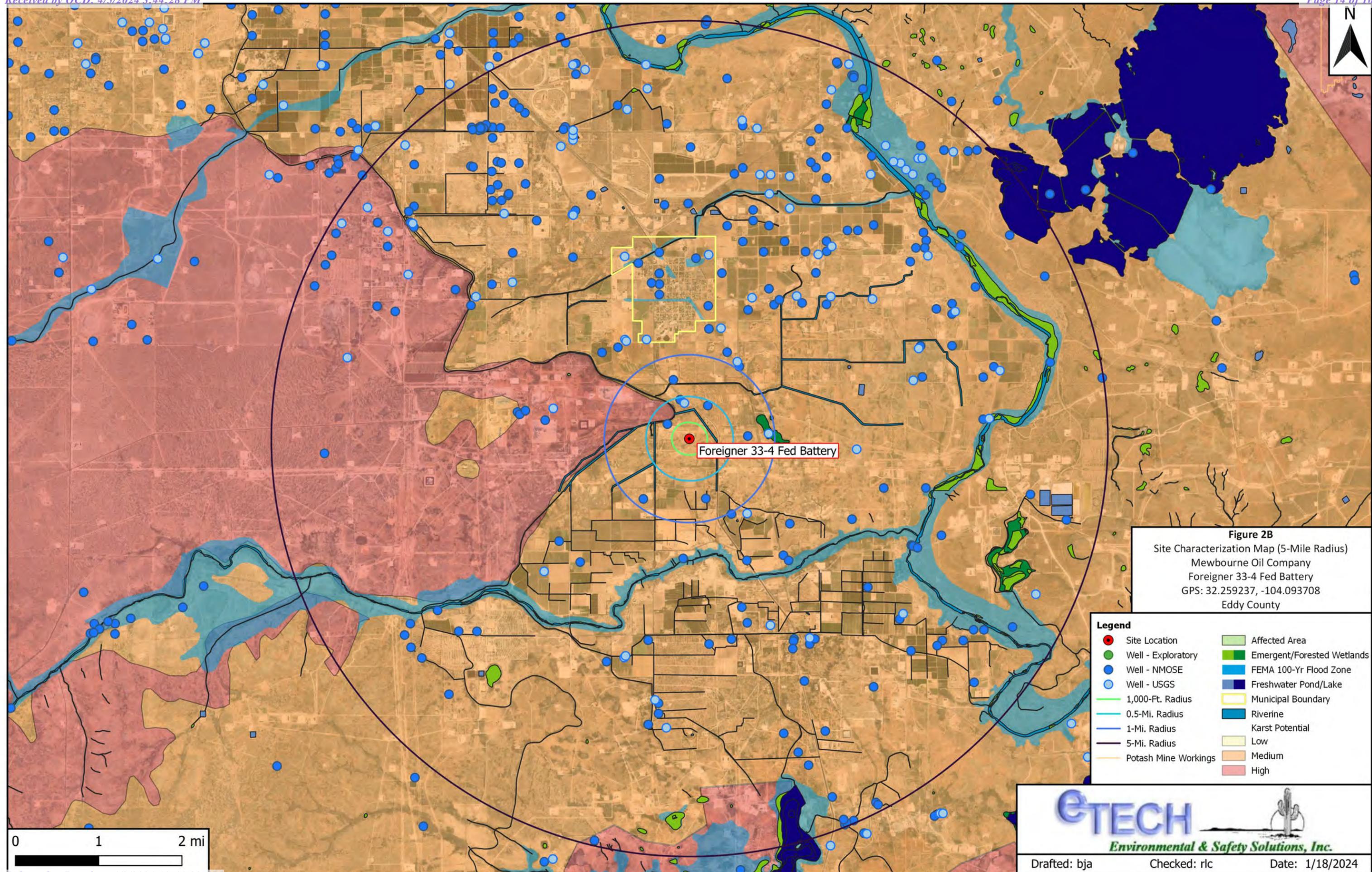
**Figure 2A**  
 Site Characterization Map (0.5-Mile Radius)  
 Mewbourne Oil Company  
 Foreigner 33-4 Fed Battery  
 GPS: 32.259237, -104.093708  
 Eddy County

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



Drafted: bja      Checked: rlc      Date: 1/18/2024





**Figure 2B**  
 Site Characterization Map (5-Mile Radius)  
 Mewbourne Oil Company  
 Foreigner 33-4 Fed Battery  
 GPS: 32.259237, -104.093708  
 Eddy County

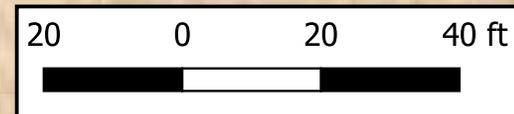
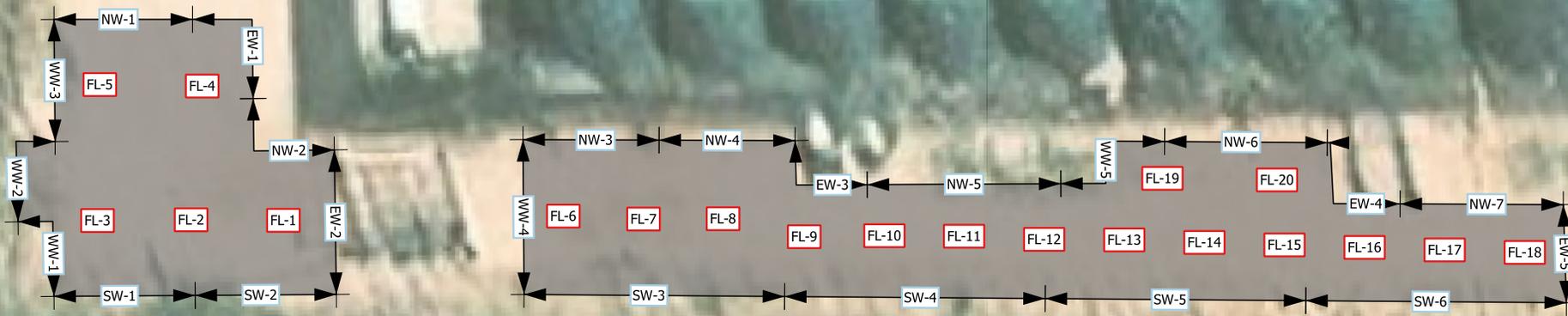
- Legend**
- Site Location
  - Well - Exploratory
  - Well - NMOSE
  - Well - USGS
  - 1,000-Ft. Radius
  - 0.5-Mi. Radius
  - 1-Mi. Radius
  - 5-Mi. Radius
  - Potash Mine Workings
  - Affected Area
  - Emergent/Forested Wetlands
  - FEMA 100-Yr Flood Zone
  - Freshwater Pond/Lake
  - Municipal Boundary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

0 1 2 mi



Drafted: bja      Checked: rlc      Date: 1/18/2024

## Figure 3 Sample Location Map



- Legend**
- Excavation Extent
  - Composite Floor Sample
  - Composite Wall Sample

**Figure 3**  
 Sample Location Map  
 Mewbourne Oil Company  
 Foreigner 33-4 Fed Battery  
 GPS: 32.259237, -104.093708  
 Eddy County



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

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Foreigner 33-4 Fed Battery</b> <b>NMOCD Ref. #: nAPP2331839299</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
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-1 @ 2'	12/14/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL-2 @ 2'	12/14/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL-3 @ 2'	12/14/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL-4 @ 2'	12/14/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL-5 @ 2'	12/14/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL-6 @ 1'	12/14/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL-7 @ 1'	12/14/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL-8 @ 1'	12/14/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL-9 @ 1'	12/14/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL-10 @ 1'	12/14/2023	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
FL-10 @ 2'	12/18/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL-11 @ 1'	12/14/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL-12 @ 1'	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL-13 @ 1'	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL-14 @ 1'	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL-15 @ 1'	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL-16 @ 1'	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL-17 @ 1'	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL-18 @ 1'	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL-19 @ 1'	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL-20 @ 1'	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW-1	12/14/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
NW-2	12/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW-3	12/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW-4	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW-5	12/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW-6	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW-7	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW-1	12/14/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
EW-2	12/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW-3	12/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW-4	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW-5	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW-1	12/14/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
SW-2	12/14/2023	0-2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
SW-2	12/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW-3	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW-4	12/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW-5	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW-6	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW-1	12/14/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW-2	12/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW-3	12/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW-4	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW-5	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0

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

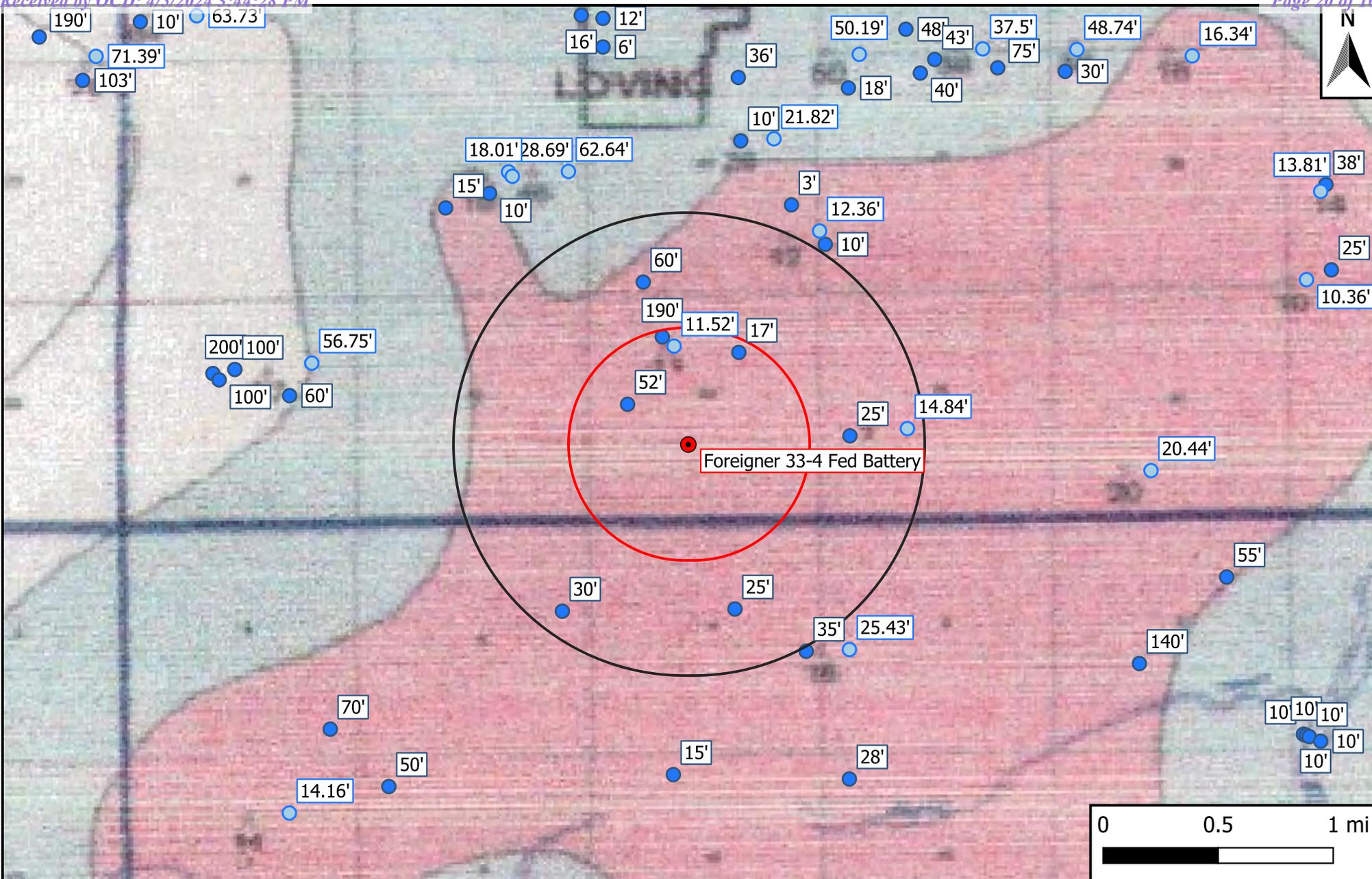
**Bold Text:** NMOCD Closure Criteria exceedance.

**Red Text:** NMOCD Reclamation Standard exceedance.

Red-outlined Cell: Highest observable concentration.

# **Appendix A**

## **Depth to Groundwater Information**



- Legend**
- Site Location
  - Well - Exploratory
  - Well - NMOSE
  - Well - USGS
  - 0.5-Mi. Radius
  - 1-Mi. Radius

**Figure 4**  
 Inferred Depth to Groundwater Map  
 Mewbourne Oil Company  
 Foreigner 33-4 Fed Battery  
 GPS: 32.259237, -104.093708  
 Eddy County



Drafted: bja      Checked: rlc      Date: 1/18/24



# 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	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C_03706_POD1</a>	C	ED	ED	3	4	4	22	21S	27E	584939	3569812	509	200		
<a href="#">C_03831_POD1</a>	C	ED	ED	4	3	1	33	23S	28E	584939	3569812	509	300	52	248
<a href="#">C_04673_POD1</a>	C	ED	ED	2	3	2	33	23S	28E	585717	3570174	733	200	17	183
<a href="#">C_00481</a>	C	ED	ED	3	2	1	33	23S	28E	585182	3570283*	773	225	190	35

Average Depth to Water: **86 feet**  
 Minimum Depth: **17 feet**  
 Maximum Depth: **190 feet**

**Record Count:** 4

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

**Easting (X):** 585363.93      **Northing (Y):** 3569531.12      **Radius:** 804.67

\*UTM location was derived from PLSS - see Help

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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</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	C 00481	3	2	1	33	23S	28E	585182	3570283*

<b>Driller License:</b> 153	<b>Driller Company:</b> KIMMEL, J.F.	
<b>Driller Name:</b> KIMMEL BROTHERS		
<b>Drill Start Date:</b> 06/24/1953	<b>Drill Finish Date:</b> 06/30/1953	<b>Plug Date:</b>
<b>Log File Date:</b> 10/25/1955	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 7.00	<b>Depth Well:</b> 225 feet	<b>Depth Water:</b> 190 feet

x  
\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03706 POD1	3	4	4	22	21S	27E	584939	3569812

<b>Driller License:</b> 1348	<b>Driller Company:</b> TAYLOR WATER WELL SERVICE	
<b>Driller Name:</b> TAYLOR, CLINTON E.		
<b>Drill Start Date:</b> 08/25/2014	<b>Drill Finish Date:</b> 08/27/2014	<b>Plug Date:</b>
<b>Log File Date:</b> 04/15/2015	<b>PCW Rcv Date:</b>	<b>Source:</b>
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 1 GPM
<b>Casing Size:</b>	<b>Depth Well:</b> 200 feet	<b>Depth Water:</b>

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POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

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ENGINEER OFFICE  
 ROSWELL, NEW MEXICO  
 2015 APR 15 PM 4:19

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NUMBER (WELL NUMBER) <b>C-3706</b>				OSE FILE NUMBER(S)					
	WELL OWNER NAME(S) <b>Winston Ballard</b>				PHONE (OPTIONAL)					
	WELL OWNER MAILING ADDRESS <b>1819-2 N. Canal</b>				CITY <b>Carlsbad</b>		STATE <b>NM</b>		ZIP <b>88220</b>	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES <b>27</b>	SECONDS <b>31.9</b>	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
	LONGITUDE	<b>104</b>	<b>10</b>	<b>11.3</b>	W					
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE <b>North of old city dump off of truck bypass.</b>										

<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NUMBER <b>WD-1348</b>		NAME OF LICENSED DRILLER <b>Clinton E Taylor</b>			NAME OF WELL DRILLING COMPANY <b>Taylor Water Well Service</b>					
	DRILLING STARTED <b>8/25/2014</b>		DRILLING ENDED <b>8/27/2014</b>		DEPTH OF COMPLETED WELL (FT) <b>200</b>		BORE HOLE DEPTH (FT) <b>200</b>		DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input checked="" type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)										
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:										
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:										
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)			
FROM	TO										
0	200	8 1/2	None								

<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE

FILE NUMBER <b>C-3706</b>	POD NUMBER <b>1</b>	TRN NUMBER <b>537495</b>
LOCATION <b>25.27E.22.4.4.3</b>	PAGE 1 OF 2	





# 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</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
C	03831 POD1	4	3	1	33	23S	28E	584939	3569812

<b>Driller License:</b> 1348	<b>Driller Company:</b> TAYLOR WATER WELL SERVICE	
<b>Driller Name:</b> TAYLOR, CLINTON E.		
<b>Drill Start Date:</b> 02/15/2015	<b>Drill Finish Date:</b> 02/17/2015	<b>Plug Date:</b>
<b>Log File Date:</b> 03/05/2015	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 1 GPM
<b>Casing Size:</b> 0.00	<b>Depth Well:</b> 300 feet	<b>Depth Water:</b> 52 feet

Water Bearing Stratifications:	Top	Bottom	Description
	52	78	Shale/Mudstone/Siltstone

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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)				(NAD83 UTM in meters)				
<b>Well Tag</b>	<b>POD Number</b>	(quarters are smallest to largest)	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
2115B	C 04673 POD 1		2	3	2	33	23S	28E	585717	3570174

<b>Driller License:</b> 1813	<b>Driller Company:</b> DESERT SANDS	
<b>Driller Name:</b> JASON ALLRED		
<b>Drill Start Date:</b> 01/08/2023	<b>Drill Finish Date:</b> 01/11/2023	<b>Plug Date:</b>
<b>Log File Date:</b> 01/26/2023	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 5.03	<b>Depth Well:</b> 200 feet	<b>Depth Water:</b> 17 feet

Water Bearing Stratifications:	Top	Bottom	Description
	98	118	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	100	200

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Agency code = usgs  
site\_no list =  
• 321536104043701

Minimum number of levels = 1  
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**USGS 321536104043701 23S.28E.34.312234**

Eddy County, New Mexico  
Latitude 32°15'36", Longitude 104°04'37" NAD27  
Land-surface elevation 3,042 feet above NAVD88  
The depth of the well is 125 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

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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
1978-02-01			D 72019	11.04			1	Z			A
1983-01-26			D 72019	9.76			1	Z			A
1987-10-16			D 72019	9.50			1	Z			A
1993-02-02			D 72019	7.11			1	S			A
2003-01-29			D 72019	14.84			1	S	USGS	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
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.32 0.23 nadww01



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Groundwater levels for the Nation

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Agency code = usgs  
 site\_no list = 

- 321556104053201

Minimum number of levels = 1

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

**USGS 321556104053201 23S.28E.33.123432**

Eddy County, New Mexico  
 Latitude 32°15'55.6", Longitude 104°05'40.94" NAD83  
 Land-surface elevation 3,094.60 feet above NGVD29  
 The depth of the well is 225 feet below land surface.  
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

**Output formats**

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

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
1954-10-05			D	72019	19.48		1	Z			A
1954-10-27			D	72019	19.50		1	Z			A
1978-01-04			D	72019	18.48		1	Z			A
1983-01-26			D	72019	14.59		1	Z			A
1987-10-16			D	72019	14.21		1	S			A
1993-02-03			D	72019	10.75		1	S			A

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
2003-01-29		D	72019	12.04			1	S	USGS	S	A
2013-01-11	18:30 UTC	m	72019	11.52			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.33 0.24 nadww01

## **Appendix B Field Data**



### Sample Log

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

Project: Foreigner 44-3 Fed Battery

Project Number: 19378 Latitude: 32.259237 Longitude: -104.093708

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1@2Ft	None	172	J
FL2@2Ft	-	456	J
FL3@2Ft	-	172	J
FL4@2Ft	-	412	J
FL5@2Ft	-	552	J
SW-1	-	228	J
WW-1	-	368	J
NW-1	-	456	J
EW-1	-	292	J
FL6@1Ft	-	368	J
FL7@1Ft	-	260	J
FL8@1Ft	-	372	J
FL9@1Ft	-	368	J
SW-2	-	412	J
FL10@1Ft	-	500	J
FL11@1Ft	-	456	J
SW-2	-	172	
WW-2	-	292	
WW-3	-	228	
NW-2	-	260	
NW-3	-	372	
EW-2	-	412	
SW-3	-	172	
SW-4	-	228	
SW-5	-	292	
SW-6	-	228	
WW-4	-	368	
NW-4	-	172	
EW-3	-	ND	
NW-5	-	260	
WW-5	-	552	
NW-6	-	412	
EW-4	-	172	
NW-7	-	None Detect	
EW-5	-	260	
FL-12@1Ft	-	456	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



# **Appendix C**

## **Photographic Log**

### Photographic Log

<b>Photo Number:</b> 1	 <p>WGSS84 32.25937, -104.09403 3089 SE156</p> <p>03Nov23 12:21 MOC Foreigner Battery Loving NM 88256, United States © 03-Nov-23 12:21:49</p>
<b>Photo Direction:</b> South-Southeast	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 2	 <p>WGSS84 32.25926, -104.09385 3088 E96</p> <p>03Nov23 12:22 MOC Foreigner Battery Loving NM 88256, United States © 03-Nov-23 12:22:24</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the affected area.	

### Photographic Log

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

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

### Photographic Log

<b>Photo Number:</b> 5	 <p>Dec 14, 2023 at 3:11:06 PM +32.259234,-104.093406 301° NW Loving NM 88256 United States</p>
<b>Photo Direction:</b> West-Northwest	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 6	 <p>Dec 14, 2023 at 3:11:17 PM +32.259234,-104.093406 84° E Loving NM 88256 United States</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the excavated area.	

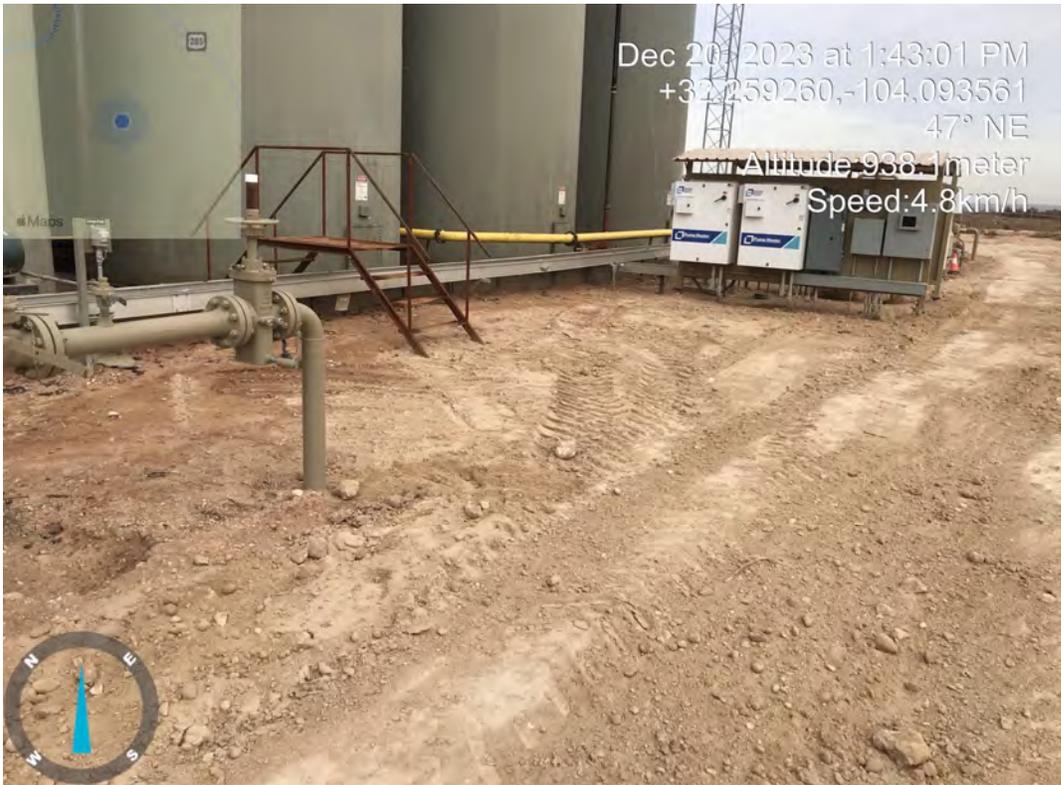
### Photographic Log

<b>Photo Number:</b> 7	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 8	
<b>Photo Direction:</b> East-Northeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

### Photographic Log

<b>Photo Number:</b> 9	 <p>Dec 20, 2023 at 1:43:23 PM +32.259254, -104.093342 274° W Altitude: 938.4 meter Speed: 3.1 km/h</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 10	 <p>Dec 20, 2023 at 1:43:01 PM +32.259260, -104.093561 47° NE Altitude: 938.1 meter Speed: 4.8 km/h</p>
<b>Photo Direction:</b> Northeast	
<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

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December 15, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOREIGNER 44-3 FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/14/23 15:50.

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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 1 @ 2' (H236680-01)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	64.0	16.0	12/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 66.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 2 @ 2' (H236680-02)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	240	16.0	12/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 62.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.5 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 3 @ 2' (H236680-03)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 69.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.2 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 4 @ 2' (H236680-04)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	272	16.0	12/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 58.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 49.3 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 5 @ 2' (H236680-05)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	288	16.0	12/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 67.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.8 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 6 @ 1' (H236680-06)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	320	16.0	12/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 61.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 50.9 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 7 @ 1' (H236680-07)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/15/2023	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	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 61.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 51.0 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 8 @ 1' (H236680-08)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/15/2023	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	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 9 @ 1' (H236680-09)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/15/2023	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	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 63.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.4 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 10 @ 1' (H236680-10)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	12/15/2023	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	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 11 @ 1' (H236680-11)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/15/2023	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	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 66.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.7 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: NW -1 (H236680-12)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/15/2023	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	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 60.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 49.9 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: EW -1 (H236680-13)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/15/2023	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	12/15/2023	ND	201	101	200	1.52	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	189	94.3	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.5 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: SW - 1 (H236680-14)**

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	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/15/2023	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	12/15/2023	ND	201	101	200	1.52	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	189	94.3	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.2 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: SW -2 (H236680-15)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/15/2023	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	12/15/2023	ND	201	101	200	1.52	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	189	94.3	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.4 % 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:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/15/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: WW - 1 (H236680-16)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2023	ND	1.60	79.9	2.00	19.6	
Toluene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	19.5	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	1.66	83.1	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	5.02	83.7	6.00	20.4	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/15/2023	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	12/15/2023	ND	201	101	200	1.52	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	189	94.3	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.2 % 49.1-148

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\*=Accredited Analyte

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager







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December 18, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOREIGNER 44-3 FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/15/23 14:48.

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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 12 @ 1' (H236698-01)**

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	12/18/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/18/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/18/2023	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	32.0	16.0	12/18/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	0.408	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	222	111	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 13 @ 1' (H236698-02)**

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	12/18/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/18/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/18/2023	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	12/18/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	0.408	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	222	111	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 14 @ 1' (H236698-03)**

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	12/18/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/18/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/18/2023	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	<16.0	16.0	12/18/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	0.408	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	222	111	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 15 @ 1' (H236698-04)**

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	12/18/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/18/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/18/2023	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	16.0	16.0	12/18/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	0.408	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	222	111	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 16 @ 1' (H236698-05)**

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	12/15/2023	ND	2.20	110	2.00	0.963	
Toluene*	<0.050	0.050	12/15/2023	ND	2.52	126	2.00	10.3	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	2.65	133	2.00	9.40	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	7.95	133	6.00	10.1	
Total BTEX	<0.300	0.300	12/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	12/18/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	0.408	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	222	111	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 17 @ 1' (H236698-06)**

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	12/15/2023	ND	2.20	110	2.00	0.963	
Toluene*	<0.050	0.050	12/15/2023	ND	2.52	126	2.00	10.3	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	2.65	133	2.00	9.40	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	7.95	133	6.00	10.1	
Total BTEX	<0.300	0.300	12/15/2023	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	<16.0	16.0	12/18/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	0.408	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	222	111	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 18 @ 1' (H236698-07)**

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	12/15/2023	ND	2.20	110	2.00	0.963		
Toluene*	<0.050	0.050	12/15/2023	ND	2.52	126	2.00	10.3		
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	2.65	133	2.00	9.40		
Total Xylenes*	<0.150	0.150	12/15/2023	ND	7.95	133	6.00	10.1		
Total BTEX	<0.300	0.300	12/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	12/18/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	0.408		
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	222	111	200	1.55		
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND						

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 19 @ 1' (H236698-08)**

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	12/15/2023	ND	2.20	110	2.00	0.963	
Toluene*	<0.050	0.050	12/15/2023	ND	2.52	126	2.00	10.3	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	2.65	133	2.00	9.40	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	7.95	133	6.00	10.1	
Total BTEX	<0.300	0.300	12/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	12/18/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	0.408	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	222	111	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 20 @ 1' (H236698-09)**

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	12/15/2023	ND	2.20	110	2.00	0.963	
Toluene*	<0.050	0.050	12/15/2023	ND	2.52	126	2.00	10.3	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	2.65	133	2.00	9.40	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	7.95	133	6.00	10.1	
Total BTEX	<0.300	0.300	12/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	0.408	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	222	111	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: NW - 2 (H236698-10)**

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	12/15/2023	ND	2.20	110	2.00	0.963		
Toluene*	<0.050	0.050	12/15/2023	ND	2.52	126	2.00	10.3		
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	2.65	133	2.00	9.40		
Total Xylenes*	<0.150	0.150	12/15/2023	ND	7.95	133	6.00	10.1		
Total BTEX	<0.300	0.300	12/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 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	12/18/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/16/2023	ND	213	107	200	0.408		
DRO >C10-C28*	<10.0	10.0	12/16/2023	ND	222	111	200	1.55		
EXT DRO >C28-C36	<10.0	10.0	12/16/2023	ND						

Surrogate: 1-Chlorooctane 98.9 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: NW - 3 (H236698-11)**

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	12/18/2023	ND	2.22	111	2.00	10.7		
Toluene*	<0.050	0.050	12/18/2023	ND	2.18	109	2.00	11.0		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.15	107	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.87	114	6.00	9.23		
Total BTEX	<0.300	0.300	12/18/2023	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	<16.0	16.0	12/18/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/16/2023	ND	213	107	200	0.408		
DRO >C10-C28*	<10.0	10.0	12/16/2023	ND	222	111	200	1.55		
EXT DRO >C28-C36	<10.0	10.0	12/16/2023	ND						

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: NW - 4 (H236698-12)**

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	12/18/2023	ND	2.22	111	2.00	10.7	
Toluene*	<0.050	0.050	12/18/2023	ND	2.18	109	2.00	11.0	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.15	107	2.00	10.6	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.87	114	6.00	9.23	
Total BTEX	<0.300	0.300	12/18/2023	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	<16.0	16.0	12/18/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: NW - 5 (H236698-13)**

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	12/18/2023	ND	2.22	111	2.00	10.7		
Toluene*	<0.050	0.050	12/18/2023	ND	2.18	109	2.00	11.0		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.15	107	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.87	114	6.00	9.23		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91		
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33		
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND						

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: NW - 6 (H236698-14)**

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	12/18/2023	ND	2.22	111	2.00	10.7	
Toluene*	<0.050	0.050	12/18/2023	ND	2.18	109	2.00	11.0	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.15	107	2.00	10.6	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.87	114	6.00	9.23	
Total BTEX	<0.300	0.300	12/18/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: NW - 7 (H236698-15)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	2.22	111	2.00	10.7		
Toluene*	<0.050	0.050	12/18/2023	ND	2.18	109	2.00	11.0		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.15	107	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.87	114	6.00	9.23		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91		
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33		
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND						

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: EW - 2 (H236698-16)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.22	111	2.00	10.7	
Toluene*	<0.050	0.050	12/18/2023	ND	2.18	109	2.00	11.0	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.15	107	2.00	10.6	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.87	114	6.00	9.23	
Total BTEX	<0.300	0.300	12/18/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: EW - 3 (H236698-17)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	2.22	111	2.00	10.7		
Toluene*	<0.050	0.050	12/18/2023	ND	2.18	109	2.00	11.0		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.15	107	2.00	10.6		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.87	114	6.00	9.23		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91		
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33		
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND						

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: EW - 4 (H236698-18)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.22	111	2.00	10.7	
Toluene*	<0.050	0.050	12/18/2023	ND	2.18	109	2.00	11.0	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.15	107	2.00	10.6	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.87	114	6.00	9.23	
Total BTEX	<0.300	0.300	12/18/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: EW - 5 (H236698-19)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.22	111	2.00	10.7	
Toluene*	<0.050	0.050	12/18/2023	ND	2.18	109	2.00	11.0	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.15	107	2.00	10.6	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.87	114	6.00	9.23	
Total BTEX	<0.300	0.300	12/18/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: SW - 2 (H236698-20)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	1.59	79.6	2.00	19.3	
Toluene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	18.4	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	19.9	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.01	83.6	6.00	19.9	
Total BTEX	<0.300	0.300	12/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: SW - 3 (H236698-21)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	1.59	79.6	2.00	19.3	
Toluene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	18.4	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	19.9	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.01	83.6	6.00	19.9	
Total BTEX	<0.300	0.300	12/18/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: SW - 4 (H236698-22)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	1.59	79.6	2.00	19.3	
Toluene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	18.4	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	19.9	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.01	83.6	6.00	19.9	
Total BTEX	<0.300	0.300	12/18/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: SW - 5 (H236698-23)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	1.59	79.6	2.00	19.3	
Toluene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	18.4	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	19.9	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.01	83.6	6.00	19.9	
Total BTEX	<0.300	0.300	12/18/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

Cardinal Laboratories

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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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: SW - 6 (H236698-24)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	1.59	79.6	2.00	19.3		
Toluene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	18.4		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	19.9		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.01	83.6	6.00	19.9		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91		
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33		
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND						

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: WW - 2 (H236698-25)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	1.59	79.6	2.00	19.3	
Toluene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	18.4	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	19.9	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.01	83.6	6.00	19.9	
Total BTEX	<0.300	0.300	12/18/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: WW - 3 (H236698-26)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	1.59	79.6	2.00	19.3		
Toluene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	18.4		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	19.9		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.01	83.6	6.00	19.9		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/15/2023	ND	213	107	200	3.91		
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	204	102	200	5.33		
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND						

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: WW - 4 (H236698-27)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	1.59	79.6	2.00	19.3		
Toluene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	18.4		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	19.9		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.01	83.6	6.00	19.9		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/16/2023	ND	213	107	200	3.91		
DRO >C10-C28*	<10.0	10.0	12/16/2023	ND	204	102	200	5.33		
EXT DRO >C28-C36	<10.0	10.0	12/16/2023	ND						

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: WW - 5 (H236698-28)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2023	ND	1.59	79.6	2.00	19.3		
Toluene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	18.4		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	1.67	83.3	2.00	19.9		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	5.01	83.6	6.00	19.9		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/18/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/16/2023	ND	213	107	200	3.91		
DRO >C10-C28*	<10.0	10.0	12/16/2023	ND	204	102	200	5.33		
EXT DRO >C28-C36	<10.0	10.0	12/16/2023	ND						

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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-04 The RPD for the BS/BSD was outside of historical limits.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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*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**

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
Project Manager: Lance Crenshaw				P.O. #: 1																								
Address: 2617 West Marland				Company: See Remarks																								
City: Hobbs		State: NM		Zip: 88240		Attn:																						
Phone #: (575) 264-9884		Fax #:		Address:																								
Project #: 19378		Project Owner: Mewbourne		City:																								
Project Name: Foreigner 44-3 Fed Battery				State: NM																Zip:								
Project Location: 32.259237, -104.093708				Phone #:				Chloride TPH (8015M) BTEX (8021B)																				
Sampler Name: Martin Sepulveda				Fax #:																								
FOR LAB USE ONLY																												
Lab I.D.		Sample I.D.				G/RAB OR (C)OMPA	# CONTAINERS	MATRIX				PRESERV.		SAMPLING														
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
48310098																												
21		SW-3				C	1	X						X	12/15/23		X	X	X									
22		SW-4				C	1	X						X	12/15/23		X	X	X									
23		SW-5				C	1	X						X	12/15/23		X	X	X									
24		SW-6				C	1	X						X	12/15/23		X	X	X									
25		WW-2				C	1	X						X	12/15/23		X	X	X									
26		WW-3				C	1	X						X	12/15/23		X	X	X									
27		WW-4				C	1	X						X	12/15/23		X	X	X									
28		WW-5				C	1	X						X	12/15/23		X	X	X									
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																												
Relinquished By: <i>[Signature]</i>				Date: 12/15/23		Received By: <i>[Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																
				Time: 1:48						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																
Relinquished By:				Date:		Received By:				REMARKS:																		
				Time:						24 HR																		
Delivered By: (Circle One)				-3.9c		Sample Condition				CHECKED BY: (Initials)		RUSH SAMPLES																
Sampler - UPS - Bus - Other:				#140		Cool Intact				8K		Bill analytical charges to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.																
						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Please email results and copy of CoC to pm@etechenv.com.																



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

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December 20, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOREIGNER 44-3 FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 14:14.

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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	FOREIGNER 44-3 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	19378	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.259237,-104.093708		

**Sample ID: FL - 10 @ 2' (H236738-01)**

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	12/19/2023	ND	2.08	104	2.00	1.06	
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/20/2023	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	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



# **Appendix E**

## **Regulatory Correspondence**

**From:** [Connor Walker](#)  
**To:** [Jeff Broom](#); [Lance Crenshaw](#); [Ben Arguijo](#)  
**Subject:** FW: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 292974  
**Date:** Monday, December 11, 2023 5:23:12 PM

---

FYI, sampling notification for the Foreigner

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**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>  
**Sent:** Monday, December 11, 2023 9:18 AM  
**To:** Connor Walker <cwalker@mewbourne.com>  
**Subject:** [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 292974

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2331839299.

The sampling event is expected to take place:

**When:** 12/14/2023 @ 08:00

**Where:** K-33-23S-28E 0 FNL 0 FEL (32.259237,-104.093708)

**Additional Information:** Martin Sepulvedo  
1 (432) 305-7322  
[martins@etechnv.com](mailto:martins@etechnv.com)

**Additional Instructions:** From the corner of Bounds Rd and Higby Hole Rd, Go S 0.35 Miles, E over cattle guard 0.45 miles, S into.

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

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

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

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

**District I**  
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**Energy, Minerals and Natural Resources**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 330661

**QUESTIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 330661
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2331839299
Incident Name	NAPP2331839299 FOREIGNER 33-4 FED BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	FOREIGNER 33-4 FED BATTERY
Date Release Discovered	11/03/2023
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc.   Tank (Any)   Produced Water   Released: 51 BBL   Recovered: 40 BBL   Lost: 11 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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Action 330661

**QUESTIONS (continued)**

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	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*

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

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 04/05/2024
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Action 330661

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 330661
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	704
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	30
GRO+DRO (EPA SW-846 Method 8015M)	20
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

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

On what estimated date will the remediation commence	12/12/2023
On what date will (or did) the final sampling or liner inspection occur	12/14/2023
On what date will (or was) the remediation complete(d)	12/20/2023
What is the estimated surface area (in square feet) that will be reclaimed	5815
What is the estimated volume (in cubic yards) that will be reclaimed	280
What is the estimated surface area (in square feet) that will be remediated	5815
What is the estimated volume (in cubic yards) that will be remediated	280

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

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

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Action 330661

**QUESTIONS (continued)**

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	Action Number:	330661
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	TX
What is the name of the out-of-state facility	R360 Red Bluff
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 04/05/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 330661

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 330661
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	No
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Action 330661

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 330661
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>292974</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>12/14/2023</b>
What was the (estimated) number of samples that were to be gathered	<b>40</b>
What was the sampling surface area in square feet	<b>6000</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>5815</b>
What was the total volume (cubic yards) remediated	<b>280</b>
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>5815</b>
What was the total volume (in cubic yards) reclaimed	<b>280</b>
Summarize any additional remediation activities not included by answers (above)	<a href="#">Please see attached closure report for complete remediation activities.</a>

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 04/05/2024
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Action 330661

**QUESTIONS (continued)**

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**QUESTIONS**

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

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CONDITIONS

Action 330661

**CONDITIONS**

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2331839299 FOREIGNER 33-4 FED BATTERY, thank you. This Remediation Closure Report is approved.	4/9/2024