

Incident ID	nAPP2317326766
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>20</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

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

Printed Name: Connor Walker Title: Sr. Engineer

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

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

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2317326766
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## Closure

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

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

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

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

Printed Name: Connor Walker Title: Sr. Engineer

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

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

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## Remediation Summary & Soil Closure Request

### Mewbourne Oil Company Black Sheep 4 Battery SWD Line

Lea County, New Mexico

Unit Letter "O", Section 4, Township 22 South, Range 34 East

Latitude 32.413683° North, Longitude 103.471973° West

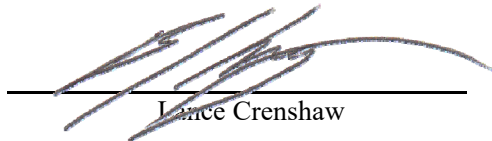
NMOCD Reference No. nAPP2317326766

Prepared By:

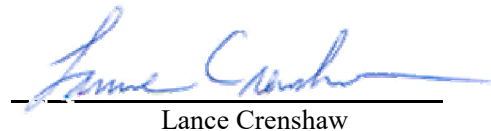
#### Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D

Lubbock, Texas 79413



Lance Crenshaw



Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

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

FIGURES

- Figure 1 - Topographic Map
- Figure 2 - Site Characterization Map
- Figure 3 - Site & Sample Location Map

TABLES

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

APPENDICES

- Appendix A - Depth to Groundwater Information
- Appendix B - Field Data & Soil Profile Logs
- Appendix C - Photographic Log
- Appendix D - Laboratory Analytical Reports
- Appendix E - Regulatory Correspondence

## 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 Black Sheep 4 Battery SWD Line (henceforth, "Black Sheep 4 Battery"). Details of the release are summarized below:

## Location of Release Source

Latitude: 32.413683° Longitude: -103.471973°

Provided GPS are in WGS84 format.

Site Name:	Black Sheep 4 Battery SWD Line	Site Type:	Tank Battery
Date Release Discovered:	6/12/2023	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
"O"	4	22S	34E	Lea

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

## Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 49	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

A weld on a poly SWD line parted.

## Initial Response

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

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

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Black Sheep 4 Battery release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	20'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Black Sheep 4 Battery release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
20'	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	N/A	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

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

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

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

## 4.0 REMEDIATION ACTIVITIES SUMMARY

On June 14, 2023, remediation activities commenced at the Black Sheep 4 Battery release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On June 14, 2023, Etech collected 10 confirmation soil samples (SW1, SW2, SW3, SW4, and FL1 @ 3' through FL6 @ 6.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory method detection limit (MDL) in each of the submitted soil samples. Chloride concentrations ranged from less than the laboratory MDL in soil samples SW2 and SW4 to 1,840 mg/kg in soil sample FL4 @ 5', which exceeded the NMOCD Closure Criterion.

On June 15, 2023, Etech collected four (4) confirmation soil samples (EW1, FL7 @ 7', FL8 @ 7', and FL9 @ 7') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample FL7 @ 7' to 208 mg/kg in soil sample FL9 @ 7'.

On June 16, 2023, Etech collected eight (8) confirmation soil samples (EW2 and FL10 @ 8' through FL16 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples EW2 and FL10 @ 8' to 208 mg/kg in soil sample FL15 @ 7'.

On June 19, 2023, Etech collected 13 confirmation soil samples (WW1, WW2, and FL17 @ 1' through FL27 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples WW1 and FL21 @ 1.5' to 176 mg/kg in soil sample FL26 @ 1'.

On June 20, 2023, Etech collected 20 confirmation soil samples (NW1, NW2, and FL28 @ 1' through FL45 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil samples FL33 @ 1' and FL38 @ 1' to 448 mg/kg in soil sample FL42 @ 1'.

On June 21, 2023, Etech collected 17 confirmation soil samples (NW3 through NW7, SW5, SW6, WW3, and FL46 @ 6 Inch through FL54 @ 2 Foot) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL, with the exception of soil samples

NW3, NW5, and FL48 @ 6 Inch, which exhibited TPH concentrations ranging from 16.2 mg/kg (FL48 @ 6 Inch) to 64.5 mg/kg (NW5). Chloride concentrations ranged from 16.0 mg/kg in soil samples NW7 and FL54 @ 2 Foot to 336 mg/kg in soil sample FL49 @ 6 Inch.

On June 27, 2023, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL4 @ 5'. Etech collected one (1) confirmation soil sample (FL4 @ 6') from the floor of the newly excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 368 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

Based on laboratory analytical results, the excavated area was backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and compacted/contoured to fit the surrounding topography and/or the needs of the facility.

During preparation of the remediation summary and closure report for the release, it was noted that the confirmation soil samples collected on June 20, 2023, were submitted to the laboratory above the NMOCD-approved temperature of 6°C and would consequently require resampling.

On August 23, 2023, Etech utilized a backhoe to reopen and resample the backfilled excavation. A total of 20 composite resamples (NW1, NW2, and FL28 @ 1' through FL45) were collected from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples FL28 @ 1' through FL35 @ 1', FL37 @ 1', FL38, and FL39 to 112 mg/kg in soil sample FL45.

The final dimensions of the excavated area were approximately 192 to 778 feet in length, three (3) to 152 feet in width, and six (6) inches to eight (8) feet in depth. During the course of remediation activities, Etech transported approximately 2,460 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 2,212 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

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

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

## **6.0 SOIL CLOSURE REQUEST**

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Black Sheep 4 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 1  
1220 South St. Francis Drive  
Santa Fe, NM 87505*

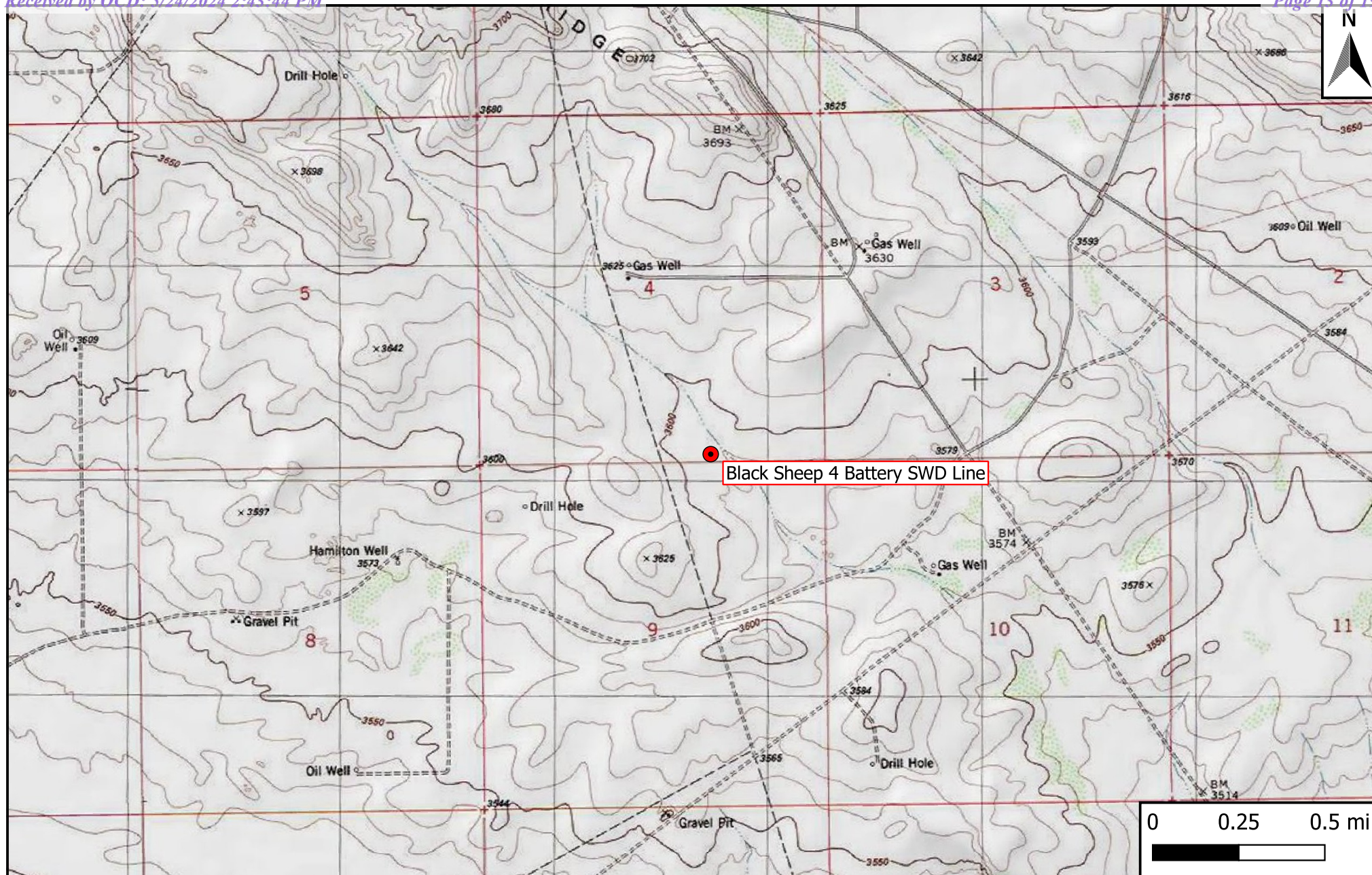
***United States Department of the Interior***

*Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220*

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**



## Legend

- Site Location

**Figure 1**  
 Topographic Map  
 Mewbourne Oil Company  
 Black Sheep 4 Battery SWD Line  
 GPS: 32.413683, -103.471973  
 Lea County



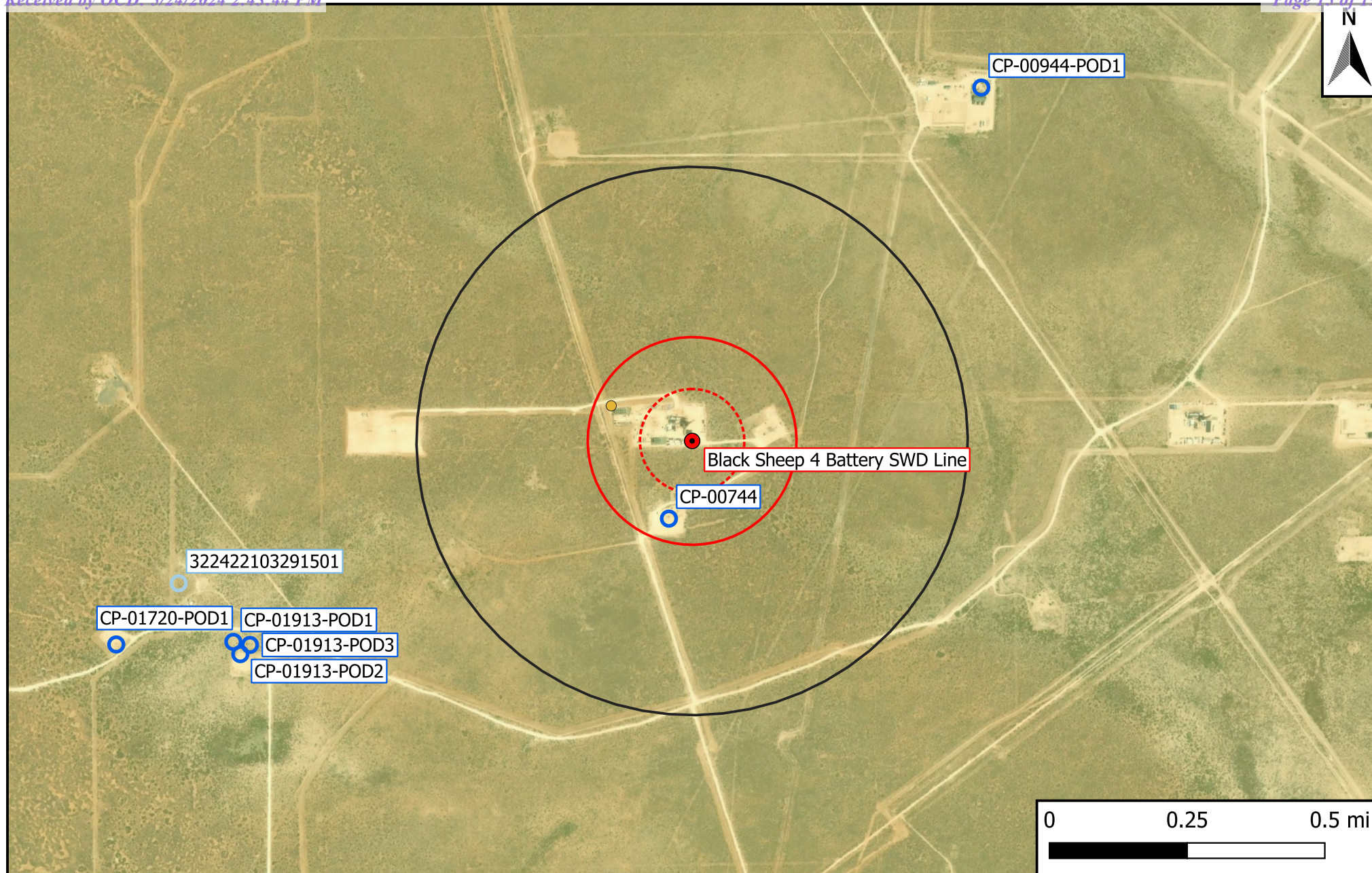
Drafted: bja

Checked: lc

Date: 7/12/23

## **Figure 2**

### **Site Characterization Map**



## Legend

<span style="color: red;">●</span> Site Location	<span style="background-color: lightblue;">■</span> 1% Annual Flood Chance	<span style="border: 1px dashed red;">■</span> 500-Ft Radius
<span style="color: blue;">○</span> Well - USGS	<span style="background-color: lightgreen;">■</span> Emergent/Forested Wetlands	<span style="border: 1px solid red;">■</span> 1,000-Ft Radius
<span style="color: green;">○</span> Well - Exploratory/Monitor	<span style="background-color: lightblue;">■</span> Freshwater Pond/Lake	<span style="border: 1px solid black;">■</span> 0.5-Mi Radius
<span style="color: orange;">—</span> Potash Mine Workings	<span style="background-color: yellow;">■</span> Karst Potential (Low/Med./High)	<span style="border: 1px solid yellow;">■</span> Municipal Boundary
	<span style="background-color: lightblue;">■</span> Riverine	

**Figure 2**  
 Site Characterization Map  
 Mewbourne Oil Company  
 Black Sheep 4 Battery SWD Line  
 GPS: 32.413683, -103.471973  
 Lea County



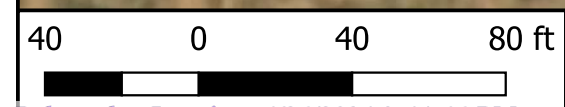
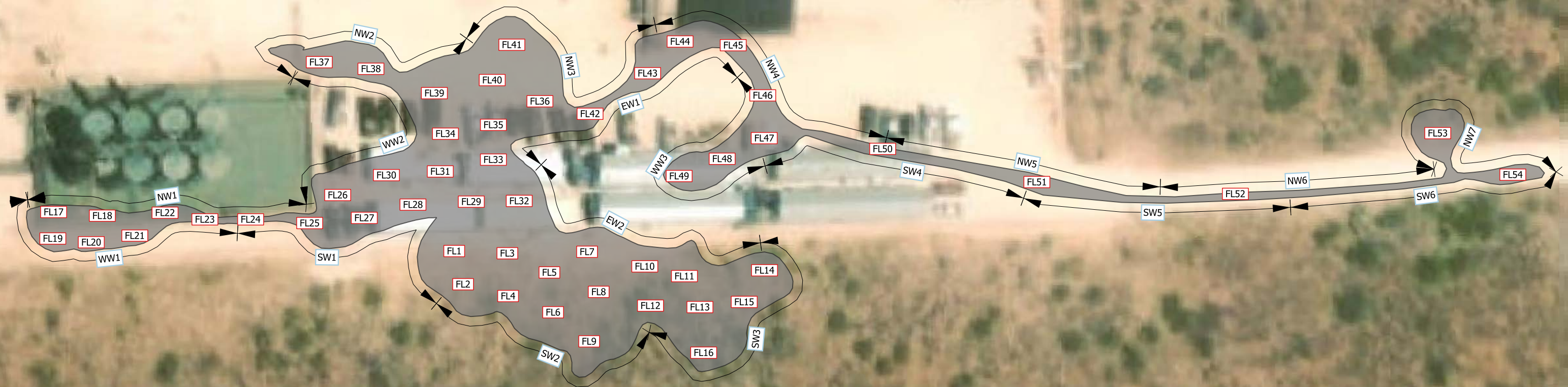
Drafted: bja




Checked: lc

Date: 7/12/23

## **Figure 3**

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



Legend	
	Excavation Extent
	Composite Floor Sample
	Composite Wall Sample

**Figure 3**  
Site & Sample Location Map  
Mewbourne Oil Company  
Black Sheep 4 Battery SWD Line  
GPS: 32.413683, -103.471973  
Lea County

		
Drafted: bja	Checked: lc	Date: 8/14/23

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

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**Mewbourne Oil Company**  
**Black Sheep 4 Battery SWD Line**  
**NMOCD Ref. #: nAPP2317326766**

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)
NW1	6/20/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW1*	8/23/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW2	6/20/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW2*	8/23/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW3	6/21/2023	0-1	In-Situ	<0.050	<0.300	<10.0	17.0	17.0	<10.0	17.0	176
NW4	6/21/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW5	6/21/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	40.6	40.6	23.9	64.5	240
NW6	6/21/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW7	6/21/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW1	6/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW2	6/16/2023	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW1	6/14/2023	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
SW2	6/14/2023	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW3	6/14/2023	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW4	6/14/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW5	6/21/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW6	6/21/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW1	6/19/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW2	6/19/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW3	6/21/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL1 @ 3'	6/14/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL2 @ 5'	6/14/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL3 @ 6'	6/14/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL4 @ 5'	6/14/2023	5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,840
FL4 @ 6'	6/27/2023	6	In-Situ	-	-	-	-	-	-	-	368
FL5 @ 6'	6/14/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL6 @ 6.5'	6/14/2023	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL7 @ 7'	6/15/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL8 @ 7'	6/15/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL9 @ 7'	6/15/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL10 @ 8'	6/16/2023	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL11 @ 8'	6/16/2023	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL12 @ 8'	6/16/2023	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL13 @ 4'	6/16/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL14 @ 7'	6/16/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL15 @ 7'	6/16/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL16 @ 4'	6/16/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL17 @ 1'	6/19/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL18 @ 1'	6/19/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL19 @ 1.5'	6/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL20 @ 1.5'	6/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL21 @ 1.5'	6/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL22 @ 1.5'	6/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL23 @ 1'	6/19/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

Asterisk (\*): Resample

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**Mewbourne Oil Company**  
**Black Sheep 4 Battery SWD Line**  
**NMOCD Ref. #: nAPP2317326766**

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)
FL24 @ 1'	6/19/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL25 @ 1'	6/19/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL26 @ 1'	6/19/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL27 @ 1'	6/19/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL28 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL28 @ 1'*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL29 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL29 @ 1'*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL30 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL30 @ 1'*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL31 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL31 @ 1'*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL32 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL32 @ 1'*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL33 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL33 @ 1'*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL34 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL34 @ 1'*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL35 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL35 @ 1'*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL36 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL36 @ 1'*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL37 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL37 @ 1'*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL38 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL38*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL39 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL39*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL40 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL40*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL41 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL41*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL42 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL42*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL43 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL43*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL44 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL44*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL45 @ 1'	6/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL45*	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL46 @ 6 Inch	6/21/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL47 @ 6 Inch	6/21/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL48 @ 6 Inch	6/21/2023	0.5	In-Situ	<0.050	<0.300	<10.0	16.2	16.2	<10.0	16.2	176
FL49 @ 6 Inch	6/21/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336

Asterisk (\*): Resample

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Black Sheep 4 Battery SWD Line</b> <b>NMOCD Ref. #: nAPP2317326766</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)
FL50 @ 6 Inch	6/21/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL51 @ 6 Inch	6/21/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL52 @ 6 Inch	6/21/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL53 @ 6 Inch	6/21/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL54 @ 2 Foot	6/21/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

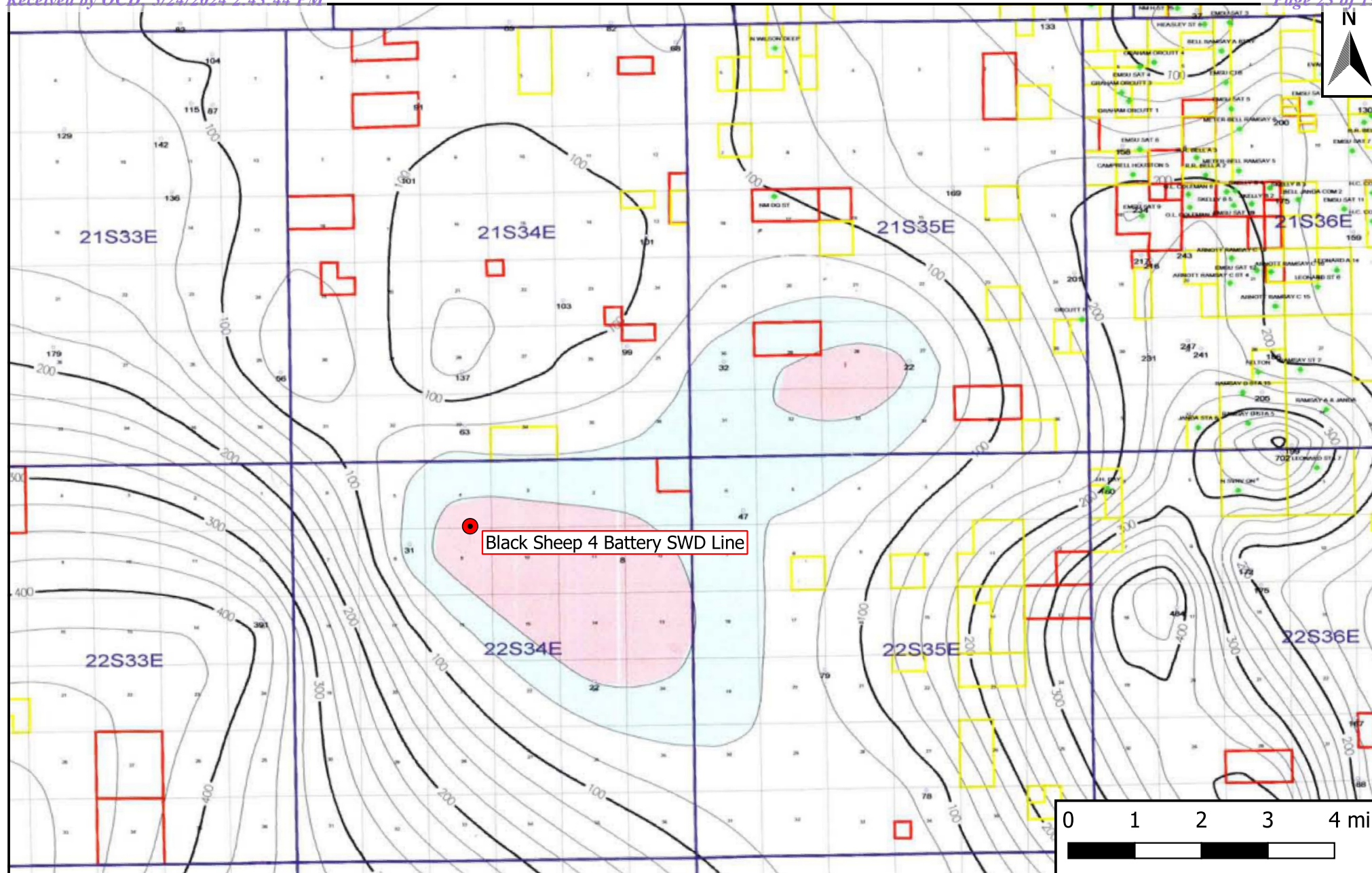
Asterisk (\*): Resample

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

**Bold:** NMOCD Closure Criteria exceedance.**Red:** NMOCD Reclamation Standard exceedance.

## **Appendix A**

### **Depth to Groundwater Information**



## Legend

- Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
 Mewbourne Oil Company  
 Black Sheep 4 Battery SWD Line  
 GPS: 32.413683, -103.471973  
 Lea County



Drafted: bja

Checked: lc

Date: 7/12/23



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 00744</a>	CP	LE		1	2	09	22S	34E		643618	3587091*	236	460		
<a href="#">CP 00597 POD1</a>	CP	LE		2	2	08	22S	34E		642410	3587074*	1298	35		
<a href="#">CP 00944 POD1</a>	CP	LE		3	1	03	22S	34E		644531	3588351	1334	109	70	39
<a href="#">CP 01913 POD3</a>	CP	LE		1	4	2	08	22S	34E	642394	3586721	1422	26		
<a href="#">CP 01913 POD2</a>	CP	LE		1	4	2	08	22S	34E	642366	3586694	1459	31		
<a href="#">CP 01913 POD1</a>	CP	LE		1	4	2	08	22S	34E	642346	3586730	1463	35	31	4

Average Depth to Water: **50 feet**

Minimum Depth: **31 feet**

Maximum Depth: **70 feet**

Record Count: 6

UTM NAD83 Radius Search (in meters):

Easting (X): 643685.83

Northing (Y): 3587318

Radius: 1610

\*UTM location was derived from PLSS - see Help

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

8/13/23 7:33 PM


Page 1 of 1

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)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
	CP 00744	1	2	09	22S	34E	643618	3587091*					
<hr/>													
Driller License:	421	Driller Company:				GLENN'S WATER WELL SERVICE							
Driller Name:	GLENN, CLARK A."CORKY" (LD)												
Drill Start Date:	10/06/1989	Drill Finish Date:				10/06/1989		Plug Date:					
Log File Date:	10/17/1989	PCW Rcv Date:						Source: Shallow					
Pump Type:		Pipe Discharge Size:						Estimated Yield:					
Casing Size:		Depth Well:				460 feet		Depth Water:					
<hr/>													

\*UTM location was derived from PLSS - see Help

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

2/28/23 10:55 AM

POINT OF DIVERSION SUMMARY

Revised June 1972

STATE ENGINEER OFFICE  
WELL RECORD

475893

Section 1. GENERAL INFORMATION

(A) Owner of well Oryx Energy  
Street or Post Office Address c/o Glenn's Water Well Service, Inc.  
City and State P.O. Box 692 Tatum, N.M. 88267  
Owner's Well No. 09-1079  
Well was drilled under Permit No. CP 744 and is located in the Santa Fe, New Mexico  
a. 1/4 E1/2 NW 1/4 NE 1/4 of Section 9 Township 22-S. Range 34-E N.M.P.M.  
b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_  
c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
Subdivision, recorded in \_\_\_\_\_ County.  
d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in  
the \_\_\_\_\_ Grant.  
(B) Drilling Contractor Glenn's Water Well Service, License No. WD 421  
Address P.O. Box 692n Tatum, N.M. 88267  
Drilling Began 10/6/89 Completed 10/6/89 Type tools Rotary Size of hole 7 7/8 in.  
Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 460 ft.  
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well \_\_\_\_\_ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
Well was back filled with native dirt				

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

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

Section 5. PLUGGING RECORD

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

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

FOR USE OF STATE ENGINEER ONLY

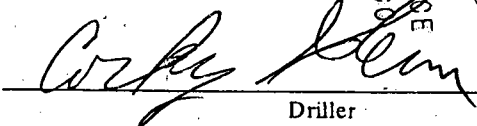
Date Received October 17, 1989  
Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_  
File No. CP-744 Use OWD Location No. 22.34.9.21411

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	4	4	soil
4	22	18	caleche
22	35	13	sand
35	49	14	sandy clay
49	52	3	gravel
52	63	11	brown sand stone
63	67	4	light blue clay
67	86	19	red clay
86	98	13	purple clay
98	140	42	red clay
140	190	50	brown shale
190	204	14	blue sand rock
204	265	61	brown shale with blue streaks
265	272	7	blue sand rock
272	320	48	red clay
320	404	132	brown shale
404	415	11	clay conglomerate (red yellow blue)
415	460	45	brown shale

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.



Driller

89 OCT 17 AM 8 09  
STATE ENGINEER OFFICE  
ROSWELL, NEW MEXICO

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
	CP 00597 POD1	2	2	08	22S	34E	642410	3587074*					
x													
Driller License: 122		Driller Company:				UNKNOWN							
Driller Name:													
Drill Start Date:		Drill Finish Date:				Plug Date:							
Log File Date:		PCW Rcv Date:				Source:		Shallow					
Pump Type:		Pipe Discharge Size:				Estimated Yield:		3 GPM					
Casing Size: 6.63		Depth Well:				35 feet		Depth Water:					
x													

\*UTM location was derived from PLSS - see Help

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

2/28/23 10:59 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Transaction Summary

### DCL Declaration of a Water Right

Transaction Number: 546663

Transaction Desc: CP 00597

File Date: 04/17/1979


Primary Status: DCL Declared

Secondary Status: PRC Processed

Person Assigned: \*\*\*\*\*

Applicant: THE MERCHANT LIVESTOCK COMPANY


#### Events

Date	Type	Description	Comment	Processed By
 04/17/1979	APP	Application Received	*	*****
04/17/1979	FTN	Finalize non-published Trans.		*****
05/15/2014	QAT	Quality Assurance Completed	SQ2	*****
09/17/2014	QAT	Quality Assurance Completed	IMAGE	*****
12/15/2016	QAT	Quality Assurance Completed	DATA	*****

#### Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 00597	0	3		PLS NON 72-12-1 LIVESTOCK WATERING

#### \*\*Point of Diversion

CP 00597 POD1 642410 3587074\* 

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

#### \*\*Place of Use

Q	Q	Q	Q	Sec	Tws	Rng	Acres	Diversion	Consumptive	Use	Priority	Status	Other	Loc	Desc
256	64	16	4				0	3		PLS	12/31/1918	DCL	NO PLACE OF		USE GIVEN

#### Remarks

NAME OF WELL - HAMILTON

"ABTRACTOR'S NOTE: THE POD FOR THIS DECLARATION HAS BEEN  
RE-NUMBERED ACCORDING TO THE APPROVED OSE POD POLICY".

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

2/28/23 11:01 AM

TRANSACTION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<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>
	CP 00944 POD1	3	1	03	22S	34E	644531	3588351	
<hr/>									
<b>Driller License:</b>	1456	<b>Driller Company:</b>		WHITE DRILLING COMPANY					
<b>Driller Name:</b>	WHITE, JOHN W								
<b>Drill Start Date:</b>	03/05/2007	<b>Drill Finish Date:</b>		03/05/2007		<b>Plug Date:</b>			
<b>Log File Date:</b>	03/22/2007	<b>PCW Rev Date:</b>				<b>Source:</b>		Shallow	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>			
<b>Casing Size:</b>	5.00	<b>Depth Well:</b>		109 feet		<b>Depth Water:</b>		70 feet	
<hr/>									
<b>Water Bearing Stratifications:</b>		<b>Top</b>	<b>Bottom</b>	<b>Description</b>					
		62	72	Other/Unknown					
<hr/>									
<b>Casing Perforations:</b>		<b>Top</b>	<b>Bottom</b>						
		57	97						
<hr/>									

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

2/28/23 10:59 AM


POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01913 POD3	1	4	2	08	22S	34E	642394	3586721 

**Driller License:** 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.  
**Driller Name:** JACKIE ATKINS  
**Drill Start Date:** 08/09/2022 **Drill Finish Date:** 08/09/2022 **Plug Date:**  
**Log File Date:** 08/11/2022 **PCW Rev Date:** **Source:**  
**Pump Type:** **Pipe Discharge Size:** **Estimated Yield:**  
**Casing Size:** **Depth Well:** 26 feet **Depth Water:**

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

2/28/23 10:59 AM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-3		WELL TAG ID NO.		OSE FILE NO(S). CP-			
	WELL OWNER NAME(S) Marathon Oil				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 4111 S. Tidwell Rd.				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 24	SECONDS 30.50 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SE NE Sec. 08 T22S R34E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 8/9/2022		DRILLING ENDED 8/9/2022		DEPTH OF COMPLETED WELL (FT) Soil Boring	BORE HOLE DEPTH (FT) ±26	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 26		6.5"	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)


FILE NO. CP-1913-POD3	POD NO. POD3	TRN NO. 732035
LOCATION Expt. 22-34-142	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	9	9	Sand, medium/ fine grained , poorly graded,unconsolidated, Brown	Y    ✓ N	
	9	11	3	Sand, medium/ fine grained , poorly graded, with clay, Olive Grey	Y    ✓ N	
	11	16	5	Sand, medium/ fine grained , poorly graded, with gravel (0.25") Olive Grey	Y    ✓ N	
	16	26	10	Clay, Stiff, High Plasticity, Deep Red	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: The boring was plugged using augers as tremie to land a slurry of Portland TYPE I/II Neat cement less than 6.0 gallons of water per 94 lb. sack. <div style="text-align: right; color: blue;">OSE DT AUG 11 2022 PM4:13</div>	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	8/10/2022 _____ DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

FILE NO. CP-1913-P003	POD NO. P003	TRN NO. 732035
LOCATION Expl 22.34.142	WELL TAG ID NO. _____	PAGE 2 OF 2

Mike A. Hamman, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWell, NM 88201

**STATE OF NEW MEXICO**  
**OFFICE OF THE STATE ENGINEER**

Trn Nbr: 732035  
File Nbr: CP 01913  
Well File Nbr: CP 01913 POD3

Aug. 11, 2022

MELODIE SANJARI  
MARATHON OIL  
4111 S TIDWELL RD  
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 08/15/2022.

The Well Record was received in this office on 08/11/2022, stating that it had been completed on 08/09/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/15/2023.

If you have any questions, please feel free to contact us.

Sincerely,

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

Maret Amaral  
(575) 622-6521

drywell



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01913 POD2	1	4	2	08	22S	34E	642366	3586694

**Driller License:** 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.  
**Driller Name:** JACKIE ATKINS  
**Drill Start Date:** 08/08/2022 **Drill Finish Date:** 08/08/2022 **Plug Date:**  
**Log File Date:** 08/11/2022 **PCW Rev Date:** **Source:**  
**Pump Type:** **Pipe Discharge Size:** **Estimated Yield:**  
**Casing Size:** **Depth Well:** 31 feet **Depth Water:**

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

2/28/23 10:59 AM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-2		WELL TAG ID NO.		OSE FILE NO(S). CP-			
	WELL OWNER NAME(S) Marathon Oil				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 4111 S. Tidwell Rd.				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32		MINUTES 24	SECONDS 29.64	N		
		LONGITUDE 103		29	9.96	W		
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SE NE Sec. 08 T22S R34E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 8/8/2022		DRILLING ENDED 8/8/2022		DEPTH OF COMPLETED WELL (FT) Soil Boring	BORE HOLE DEPTH (FT) ±31	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 8/8/2022	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	31	6.5"	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	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

WR-20 WELL RECORD & LOG (Version 01/28/2022)


FILE NO. CP-1913-POD2	POD NO. POD 2	TRN NO. 732035
LOCATION E44 22.34.08.142	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Sand, medium/ fine grained , poorly graded,unconsolidated, Tan and Grey	Y    ✓ N	
	14	16	2	Sand, medium grained , poorly graded,unconsolidated, with gravel, Olive green	Y    ✓ N	
	16	31	14	Clay, Stiff, High Plasticity, Deep Red	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):                      0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: The boring was plugged using augers as tremie to land a slurry of Portland TYPE I/II Neat cement less than 6.0 gallons of water per 94 lb. sack.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt, Lucas Middleton	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	Jackie D. Atkins	8/10/2022
SIGNATURE OF DRILLER / PRINT SIGNEE NAME		DATE

FOR USE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

FILE NO. <b>CP-1913-POD 2</b>	POD NO. <b>POD 2</b>	TRN NO. <b>732035</b>
LOCATION <b>Expt 22.34.08.142</b>	WELL TAG ID NO. <b>_____</b>	PAGE 2 OF 2

Mike A. Hamman, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO**  
**OFFICE OF THE STATE ENGINEER**

Trn Nbr: 732035  
File Nbr: CP 01913  
Well File Nbr: CP 01913 POD2

Aug. 11, 2022

MELODIE SANJARI  
MARATHON OIL  
4111 S TIDWELL RD  
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 08/15/2022.

The Well Record was received in this office on 08/11/2022, stating that it had been completed on 08/08/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/15/2023.

If you have any questions, please feel free to contact us.

Sincerely,

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


Maret Amaral  
(575) 622-6521

drywell



# New Mexico Office of the State Engineer

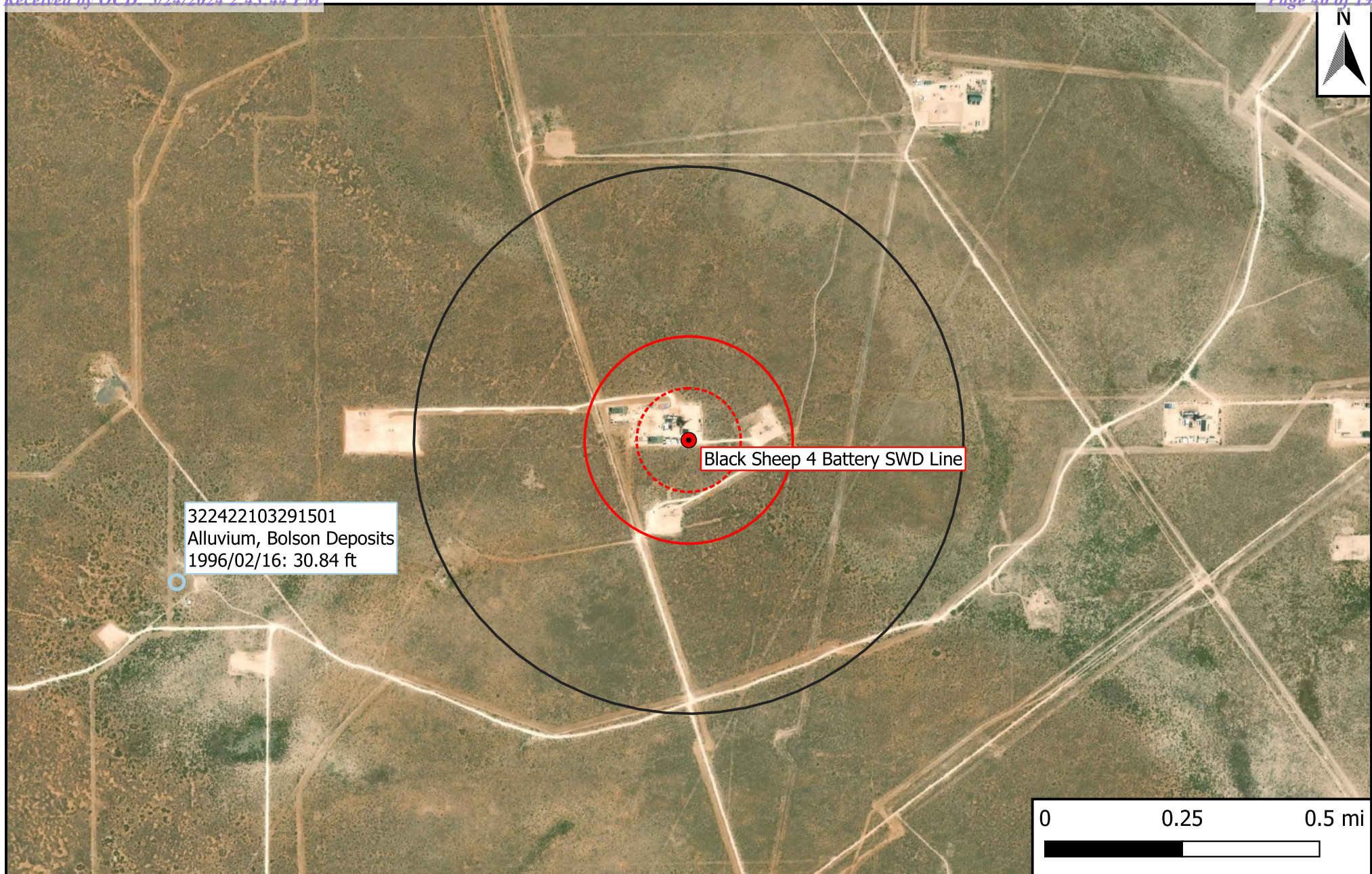
## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
NA	CP 01913 POD1	1	4	2	08	22S	34E	642346	3586730		
<hr/>											
Driller License:		1249		Driller Company:			ATKINS ENGINEERING ASSOC. INC.				
Driller Name:		JACKIE ATKINS									
Drill Start Date:		08/09/2022		Drill Finish Date:			08/09/2022		Plug Date:		
Log File Date:		08/11/2022		PCW Rev Date:					Source:		Shallow
Pump Type:		Pipe Discharge Size:			Estimated Yield:						
Casing Size:		Depth Well:			35 feet			Depth Water:		31 feet	
<hr/>											
Water Bearing Stratifications:				Top	Bottom	Description					
				29	34	Sandstone/Gravel/Conglomerate					
<hr/>											
Casing Perforations:				Top	Bottom						
				0	35						
<hr/>											

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

2/28/23 10:59 AM

POINT OF DIVERSION SUMMARY



## Legend

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

**Figure 5**  
USGS Well Proximity Map  
Mewbourne Oil Company  
Black Sheep 4 Battery SWD Line  
GPS: 32.413683, -103.471973  
Lea County



Drafted: bja

Checked: lc

Date: 7/12/23



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO



Click for News Bulletins

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 322422103291501

Minimum number of levels = 1

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

### USGS 322422103291501 22S.34E.08.22333

Lea County, New Mexico

Latitude 32°24'36", Longitude 103°29'15" NAD27

Land-surface elevation 3,578.00 feet above NGVD29

The depth of the well is 35 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

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-06-10		D	72019	31.64			1	Z			A
1970-12-04		D	72019	31.46			1	Z			A
1976-12-16		D	72019	30.49			1	Z			A
1981-03-18		D	72019	30.73			1	Z			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
1986-04-10		D	72019	29.83			1	Z			A
1991-05-03		D	72019	29.52			1	Z			A
1996-02-16		D	72019	30.84			1	S			A

## Explanation

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

[Questions about sites/data?](#)[Feedback on this web site](#)[Automated retrievals](#)[Help](#)[Data Tips](#)[Explanation of terms](#)[Subscribe for system changes](#)[News](#)[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-05-24 13:14:01 EDT

0.29 0.24 nadww02



## **Appendix B**

### **Field Data & Soil Profile Logs**



## Sample Log

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

Project: Black Sheep 4 Battery

Project Number: 18315

Latitude: 32.41368

Longitude: -103.47197

Sample ID	PID/Odor	Chloride Conc.	GPS
FL103'	-	500	
FL205'	-	268 2.4	FL2301' 372\3.0
FL306'	-	372 3.0	FL2401' 220\2.0
SW1	-	372 3.0	FL2501' 268\2.4
FL405'	-	300 2.6	FL2601' 372\3.0
FL506'	-	268 2.4	FL2701' 236\2.2
FL606'	-	600 4.0	FL2801' 284\2.6
FL606.5	-	236 2.2	FL2901' 136\1.6
SW2	-	108 1.2	FL3001' 108\1.2
SW3	-	372 3.0	FL3101' 108\1.2
SW4	-	268 2.4	FL3201' 136\1.6
FL303'	-	1944	FL3301' 320\2.8
FL505'	-	1816	<del>FL3401' 284\2.6</del>
FL404'	-	1296	FL3401' 284\2.6
FL707'	-	372 3.0	FL3501' 192\2.0
FL807'	-	372 3.0	FL3601' 192\2.0
FL907'	-	456 3.4	FL4001' 372\3.0
FL1007'	-	2328 7.8	FL3701' 252\2.4
EW1	-	268 2.4	FL3801' 136\1.6
FL1008'	-	320 2.8	FL3901' 236\2.2
FL1108'	-	396 3.2	FL4001' 192\2.0
FL1208'	-	396 3.2	FL4201' 296\3.2
FL1304'	-	320 2.8	FL4301' 108\1.2
EW2	-	252 2.4	FL4401' 192\2.0
FL1407'	-	236 2.2	FL4501' 236\2.2
FL1507'	-	268 2.4	NW1 268\2.4
FL1604'	-	284 2.6	NW2 268\2.4
FL17011	-	254 2.4	FL4601' 320\2.8
FL1801'	-	284 2.6	FL4701' 480\3.6
FL1901.5'	-	284 2.6	FL4801' 436\3.4
FL2001.5'	-	252 2.4	FL4901' 572\3.0
FL2101.5'	-	284 2.6	NW3 372\3.0
FL2201.5'	-	192 2.0	FL5001' 480\3.6
WW1	-	108 1.2	FL5101' 372\3.0
WW2	-	284 2.6	FL5201' 372\3.0
WW3	-	372 3.0	FL5301' 320\2.8

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

FL5401' 192\2.0



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

Project Number: 18315      Latitude: 32.41368      Longitude: -103.47197

**GPS Sample Points, Center of Comp Areas**



Soil Profile

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

Project: Black Sheep 4 Battery SWD Line


Project Number: 18315 Latitude: 32.413683 Longitude: -103.471973

Depth (ft. bgs)	Description
1	Caliche-Sand
2	Caliche
3	Caliche
4	Sand
5	Sand
6	Sand
7	Sand
8	Sand
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
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22	
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## **Appendix C**

### **Photographic Log**

## Photographic Log

<b>Photo Number:</b> 1	 <p>6/12/23, 6:48 AM +32.413858,-103.471983 NM, Jal</p>
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the affected area.	


<b>Photo Number:</b> 2	 <p>6/12/23, 6:43 AM +32.413538,-103.472575 NM, Jal</p>
<b>Photo Direction:</b> West-Northwest	
<b>Photo Description:</b>  View of the affected area.	


Photographic Log

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


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

## Photographic Log

<b>Photo Number:</b> 5	 <p>6/12/23, 6:41 AM +32.413446,-103.471991 NM, Jal</p>
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of the affected area.	


<b>Photo Number:</b> 6	 <p>6/12/23, 6:39 AM +32.413756,-103.471912 NM, Jal</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the affected area.	


## Photographic Log

<b>Photo Number:</b> 7	 <p>6/12/23, 6:37 AM +32.413593,-103.471531 NM, Jal</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 8	 <p>6/12/23, 6:36 AM +32.413634,-103.470798 NM, Jal</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the affected area.	

## Photographic Log

<b>Photo Number:</b> 9	 <p>6/22/23, 2:27 PM +32.413759,-103.472013 NM, Jal</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the excavated area.	


<b>Photo Number:</b> 10	 <p>6/22/23, 2:27 PM +32.413759,-103.472013 NM, Jal</p>
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of the excavated area.	

## Photographic Log

<b>Photo Number:</b> 11	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 12	
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of the excavated area.	

## Photographic Log

<b>Photo Number:</b> 13	 <p>6/22/23, 2:25 PM +32.413541,-103.472677 NM, Jal</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 14	 <p>6/22/23, 2:26 PM +32.413657,-103.472230 NM, Jal</p>
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the excavated area.	

## Photographic Log

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


<b>Photo Number:</b> 16	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the excavated area.	


## Photographic Log

<b>Photo Number:</b> 17	 <p>6/22/23, 2:25 PM +32.413962,-103.473268 NM, Jal</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area.	


<b>Photo Number:</b> 18	 <p>6/21/23, 1:04 PM +32.413621,-103.470846 NM, Jal</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the excavated area.	

## Photographic Log

<b>Photo Number:</b> 19	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 20	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

## Photographic Log

<b>Photo Number:</b> 21	
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 22	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	


## Photographic Log

<b>Photo Number:</b> 23	 <p>6/30/23, 3:25 PM +32.413667,-103.472209 NM, Jal</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 24	 <p>6/30/23, 3:25 PM +32.413773,-103.471879 NM, Jal</p>
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

## Photographic Log

<b>Photo Number:</b> 25	 <p>6/30/23, 3:25 PM +32.413765,-103.472254 NM, Jal</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 26	 <p>6/30/23, 3:26 PM +32.413627,-103.471194 NM, Jal</p>
<b>Photo Direction:</b> West	
<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

June 19, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLACK SHEEP 4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/14/23 15:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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: 06/14/2023  
 Reported: 06/19/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 1 @ 3' (H233064-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.18	109	2.00	0.812	
Toluene*	<0.050	0.050	06/17/2023	ND	2.15	107	2.00	1.33	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.18	109	2.00	0.528	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.47	108	6.00	0.0481	
Total BTX	<0.300	0.300	06/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	144	16.0	06/15/2023	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	06/15/2023	ND	199	99.7	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	204	102	200	5.88	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 06/14/2023  
 Reported: 06/19/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 2 @ 5' (H233064-02)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.18	109	2.00	0.812	
Toluene*	<0.050	0.050	06/17/2023	ND	2.15	107	2.00	1.33	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.18	109	2.00	0.528	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.47	108	6.00	0.0481	
Total BTX	<0.300	0.300	06/17/2023	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	128	16.0	06/15/2023	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	06/15/2023	ND	199	99.7	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	204	102	200	5.88	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 06/14/2023  
 Reported: 06/19/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 3 @ 6' (H233064-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.56	128	2.00	2.81	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.43	122	2.00	2.76	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	7.26	121	6.00	2.75	
Total BTEX	<0.300	0.300	06/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	144	16.0	06/15/2023	ND	400	100	400	3.92	QR-03

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	199	99.7	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	204	102	200	5.88	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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: 06/14/2023  
 Reported: 06/19/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 4 @ 5' (H233064-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/17/2023	ND	2.56	128	2.00	2.81		
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.43	122	2.00	2.76		
Total Xylenes*	<0.150	0.150	06/17/2023	ND	7.26	121	6.00	2.75		
Total BTEx	<0.300	0.300	06/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1840	16.0	06/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2023	ND	182	91.1	200	0.716	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	170	85.0	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/14/2023  
 Reported: 06/19/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 5 @ 6' (H233064-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.56	128	2.00	2.81	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.43	122	2.00	2.76	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	7.26	121	6.00	2.75	
Total BTEX	<0.300	0.300	06/17/2023	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	128	16.0	06/15/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2023	ND	182	91.1	200	0.716	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	170	85.0	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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: 06/14/2023  
 Reported: 06/19/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 6 @ 6.5' (H233064-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.56	128	2.00	2.81	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.43	122	2.00	2.76	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	7.26	121	6.00	2.75	
Total BTEx	<0.300	0.300	06/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2023	ND	182	91.1	200	0.716	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	170	85.0	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 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: 06/14/2023  
 Reported: 06/19/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 (H233064-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.56	128	2.00	2.81	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.43	122	2.00	2.76	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	7.26	121	6.00	2.75	
Total BTEX	<0.300	0.300	06/17/2023	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	304	16.0	06/15/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2023	ND	182	91.1	200	0.716	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	170	85.0	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 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: 06/14/2023  
 Reported: 06/19/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 2 (H233064-08)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.56	128	2.00	2.81	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.43	122	2.00	2.76	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	7.26	121	6.00	2.75	
Total BTEx	<0.300	0.300	06/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	06/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2023	ND	182	91.1	200	0.716	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	170	85.0	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 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: 06/14/2023  
 Reported: 06/19/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 3 (H233064-09)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.56	128	2.00	2.81	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.43	122	2.00	2.76	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	7.26	121	6.00	2.75	
Total BTEX	<0.300	0.300	06/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/15/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2023	ND	182	91.1	200	0.716	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	170	85.0	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/14/2023  
 Reported: 06/19/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 4 (H233064-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.56	128	2.00	2.81	
Toluene*	<0.050	0.050	06/17/2023	ND	2.36	118	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.43	122	2.00	2.76	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	7.26	121	6.00	2.75	
Total BTEX	<0.300	0.300	06/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2023	ND	182	91.1	200	0.716	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	170	85.0	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

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

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> Lance Crenshaw <b>Address:</b> P.O. Box 301 <b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260 <b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429 <b>Project #:</b> 18315 <b>Project Owner:</b> <b>Project Name:</b> Black Sheep 4 Battery <b>Project Location:</b> <b>Sampler Name:</b> Quentin Reyna				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Mewbourne <b>Attn:</b> Connor Walker <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b> <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																		
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME												
H233064													6/14													
1 FL1031																										
2 FL2051																										
3 FL3061																										
4 FL4051																										
5 FL5061																										
6 FL6065																										
7 SW1																										
8 SW2																										
9 SW3																										
10 SW4																										

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

<b>Relinquished By:</b> Quentin Reyna <b>Date:</b> 6/14 <b>Time:</b> 1500	<b>Received By:</b> [Signature] <b>Date:</b> <b>Time:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b>	<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: 5.9c / 5.3c <b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>CHECKED BY:</b> (Initials) Y.O.
---	---	---	---

Please email results to pm@etechenv.com.

FORM-006  
Revision 1.0

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



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

June 20, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLACK SHEEP 4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/16/23 8:12.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/16/2023  
 Reported: 06/20/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 7 @ 7' (H233113-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2023	ND	2.22	111	2.00	5.00	
Toluene*	<0.050	0.050	06/17/2023	ND	2.37	118	2.00	4.79	
Ethylbenzene*	<0.050	0.050	06/17/2023	ND	2.30	115	2.00	5.08	
Total Xylenes*	<0.150	0.150	06/17/2023	ND	6.97	116	6.00	4.68	
Total BTX	<0.300	0.300	06/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/16/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2023	ND	196	98.2	200	21.0	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	193	96.3	200	22.0	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 06/16/2023  
 Reported: 06/20/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 8 @ 7' (H233113-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2023	ND	1.92	96.2	2.00	3.82		
Toluene*	<0.050	0.050	06/19/2023	ND	1.82	90.9	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/19/2023	ND	1.80	90.2	2.00	4.76		
Total Xylenes*	<0.150	0.150	06/19/2023	ND	5.48	91.4	6.00	4.84		
Total BTEX	<0.300	0.300	06/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	112	16.0	06/16/2023	ND	400	100	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	06/19/2023	ND	196	98.2	200	21.0	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	193	96.3	200	22.0	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 06/16/2023  
 Reported: 06/20/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 9 @ 7' (H233113-03)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2023	ND	1.92	96.2	2.00	3.82		
Toluene*	<0.050	0.050	06/19/2023	ND	1.82	90.9	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/19/2023	ND	1.80	90.2	2.00	4.76		
Total Xylenes*	<0.150	0.150	06/19/2023	ND	5.48	91.4	6.00	4.84		
Total BTEX	<0.300	0.300	06/19/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/16/2023	ND	400	100	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	06/19/2023	ND	196	98.2	200	21.0	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	193	96.3	200	22.0	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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: 06/16/2023  
 Reported: 06/20/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 1 (H233113-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2023	ND	1.92	96.2	2.00	3.82		
Toluene*	<0.050	0.050	06/19/2023	ND	1.82	90.9	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/19/2023	ND	1.80	90.2	2.00	4.76		
Total Xylenes*	<0.150	0.150	06/19/2023	ND	5.48	91.4	6.00	4.84		
Total BTEX	<0.300	0.300	06/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	06/16/2023	ND	400	100	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	06/19/2023	ND	196	98.2	200	21.0	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	193	96.3	200	22.0	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

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

[illegible]



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

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June 21, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLACK SHEEP 4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/16/23 11:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/16/2023  
 Reported: 06/21/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 10 @ 8' (H233126-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2023	ND	2.27	113	2.00	0.176	
Toluene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.785	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.22	104	6.00	1.10	
Total BTX	<0.300	0.300	06/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	06/19/2023	ND	400	100	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	06/20/2023	ND	179	89.7	200	17.0	
DRO >C10-C28*	<10.0	10.0	06/20/2023	ND	180	89.9	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 06/16/2023  
 Reported: 06/21/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 11 @ 8' (H233126-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2023	ND	2.27	113	2.00	0.176	
Toluene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.785	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.22	104	6.00	1.10	
Total BTX	<0.300	0.300	06/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/19/2023	ND	400	100	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	06/20/2023	ND	179	89.7	200	17.0	
DRO >C10-C28*	<10.0	10.0	06/20/2023	ND	180	89.9	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 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: 06/16/2023  
 Reported: 06/21/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 12 @ 8' (H233126-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2023	ND	2.27	113	2.00	0.176	
Toluene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.785	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.22	104	6.00	1.10	
Total BTEX	<0.300	0.300	06/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	06/19/2023	ND	400	100	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	06/20/2023	ND	179	89.7	200	17.0	
DRO >C10-C28*	<10.0	10.0	06/20/2023	ND	180	89.9	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/16/2023  
 Reported: 06/21/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 13 @ 4' (H233126-04)**

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2023	ND	2.27	113	2.00	0.176		
Toluene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.0543		
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.785		
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.22	104	6.00	1.10		
Total BTEx	<0.300	0.300	06/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	48.0	16.0	06/19/2023	ND	400	100	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	06/20/2023	ND	179	89.7	200	17.0	
DRO >C10-C28*	<10.0	10.0	06/20/2023	ND	180	89.9	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 06/16/2023  
 Reported: 06/21/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 14 @ 7' (H233126-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2023	ND	2.27	113	2.00	0.176		
Toluene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.0543		
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.785		
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.22	104	6.00	1.10		
Total BTEx	<0.300	0.300	06/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	80.0	16.0	06/19/2023	ND	400	100	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	06/20/2023	ND	179	89.7	200	17.0	
DRO >C10-C28*	<10.0	10.0	06/20/2023	ND	180	89.9	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 06/16/2023  
 Reported: 06/21/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 15 @ 7' (H233126-06)**

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2023	ND	2.27	113	2.00	0.176		
Toluene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.0543		
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.785		
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.22	104	6.00	1.10		
Total BTEx	<0.300	0.300	06/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	208	16.0	06/19/2023	ND	400	100	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	06/20/2023	ND	179	89.7	200	17.0	
DRO >C10-C28*	<10.0	10.0	06/20/2023	ND	180	89.9	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/16/2023  
 Reported: 06/21/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 16 @ 4' (H233126-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2023	ND	2.27	113	2.00	0.176	
Toluene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.10	105	2.00	0.785	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.22	104	6.00	1.10	
Total BTEX	<0.300	0.300	06/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/19/2023	ND	400	100	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	06/20/2023	ND	179	89.7	200	17.0	
DRO >C10-C28*	<10.0	10.0	06/20/2023	ND	180	89.9	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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: 06/16/2023  
 Reported: 06/21/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 2 (H233126-08)**

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	06/21/2023	ND	2.10	105	2.00	2.09	
Toluene*	<0.050	0.050	06/21/2023	ND	2.21	111	2.00	0.585	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.28	114	2.00	1.02	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.70	112	6.00	1.01	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/19/2023	ND	400	100	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	06/20/2023	ND	179	89.7	200	17.0	
DRO >C10-C28*	<10.0	10.0	06/20/2023	ND	180	89.9	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

**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.

Project Manager: Lance Crenshaw

Address: P.O. Box 301

City: Lovington State: NM Zip: 88260

Phone #: (575) 396-2378 Fax #: (575) 396-1429

Project #: 18315 Project Owner:

Project Name: Black Sheep 4 Battery

Project Location:

Sampler Name: Quentin Reyna

BILL TO

P.O. #:

Company: Newbourn

Attn: Connor Walker

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Lab I.D. H233126

Sample I.D.

GRAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

1 FL1008'

2 FL1108'

3 FL1208'

4 FL1304'

5 FL1407'

6 FL1507'

7 FL1604'

8 EW2

✓

✓

✓

✓

✓

✓

✓

✓

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Relinquished By: Quentin Reyna

Date: 6/16/23

Time: 11:40

Received By: [Signature]

Date: 6/16/23

Time: 11:40

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: 2.6c/20c

Sample Condition

Cool

Intact

Yes

No

CHECKED BY: [Signature]

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS: \* Customer requested us to add an extra received sample to COC.

Please email results to pm@etechenv.com.

Lance Crenshaw

6/16/23



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

June 23, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLACK SHEEP 4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/19/23 13:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 17 @ 1' (H233157-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.46	123	2.00	4.41	
Toluene*	<0.050	0.050	06/23/2023	ND	2.25	112	2.00	5.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.26	113	2.00	5.33	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.68	111	6.00	5.49	
Total BTX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 18 @ 1' (H233157-02)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2023	ND	2.46	123	2.00	4.41		
Toluene*	<0.050	0.050	06/22/2023	ND	2.25	112	2.00	5.50		
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.26	113	2.00	5.33		
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.68	111	6.00	5.49		
Total BTX	<0.300	0.300	06/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 111 % 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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 19 @ 1.5' (H233157-03)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2023	ND	2.46	123	2.00	4.41		
Toluene*	<0.050	0.050	06/22/2023	ND	2.25	112	2.00	5.50		
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.26	113	2.00	5.33		
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.68	111	6.00	5.49		
Total BTX	<0.300	0.300	06/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 20 @ 1.5' (H233157-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.46	123	2.00	4.41	
Toluene*	<0.050	0.050	06/22/2023	ND	2.25	112	2.00	5.50	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.26	113	2.00	5.33	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.68	111	6.00	5.49	
Total BTX	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 21 @ 1.5' (H233157-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.46	123	2.00	4.41	
Toluene*	<0.050	0.050	06/22/2023	ND	2.25	112	2.00	5.50	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.26	113	2.00	5.33	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.68	111	6.00	5.49	
Total BTEX	<0.300	0.300	06/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 22 @ 1.5' (H233157-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.46	123	2.00	4.41	
Toluene*	<0.050	0.050	06/22/2023	ND	2.25	112	2.00	5.50	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.26	113	2.00	5.33	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.68	111	6.00	5.49	
Total BTX	<0.300	0.300	06/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 1 (H233157-07)**

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	06/21/2023	ND	2.14	107	2.00	0.949		
Toluene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	5.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.22	111	2.00	0.101		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.67	111	6.00	0.0969		
Total BTEX	<0.300	0.300	06/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 2 (H233157-08)**

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	06/21/2023	ND	2.14	107	2.00	0.949	
Toluene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	5.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.22	111	2.00	0.101	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.67	111	6.00	0.0969	
Total BTEX	<0.300	0.300	06/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 23 @ 1' (H233157-09)**

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	06/21/2023	ND	2.14	107	2.00	0.949		
Toluene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	5.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.22	111	2.00	0.101		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.67	111	6.00	0.0969		
Total BTEX	<0.300	0.300	06/21/2023	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	48.0	16.0	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 24 @ 1' (H233157-10)**

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	06/21/2023	ND	2.14	107	2.00	0.949		
Toluene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	5.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.22	111	2.00	0.101		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.67	111	6.00	0.0969		
Total BTEX	<0.300	0.300	06/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 25 @ 1' (H233157-11)**

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	06/21/2023	ND	2.14	107	2.00	0.949		
Toluene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	5.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.22	111	2.00	0.101		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.67	111	6.00	0.0969		
Total BTEX	<0.300	0.300	06/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 26 @ 1' (H233157-12)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2023	ND	2.14	107	2.00	0.949		
Toluene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	5.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.22	111	2.00	0.101		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.67	111	6.00	0.0969		
Total BTX	<0.300	0.300	06/21/2023	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	176	16.0	06/21/2023	ND	400	100	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	06/21/2023	ND	190	95.1	200	0.870	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	170	84.8	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/19/2023  
 Reported: 06/23/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 27 @ 1' (H233157-13)**

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	06/21/2023	ND	2.14	107	2.00	0.949		
Toluene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	5.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.22	111	2.00	0.101		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.67	111	6.00	0.0969		
Total BTEx	<0.300	0.300	06/21/2023	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	16.0	16.0	06/21/2023	ND	400	100	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	06/20/2023	ND	180	89.8	200	0.860	
DRO >C10-C28*	<10.0	10.0	06/20/2023	ND	186	93.1	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	06/20/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>														
Project Manager: <i>Lance C. Porter</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>														
Address: 2617 West Marland				Company: <i>Newbourne</i>																		
City: Hobbs State: NM Zip: 88240				Attn: <i>Connor Walker</i>																		
Phone #: (575) 264-9884 Fax #:				Address:																		
Project #: <i>18315</i> Project Owner:				City:																		
Project Name: <i>Black Sheep 4 Battery</i>				State: NM Zip:																		
Project Location:				Phone #:																		
Sampler Name: <i>Quentin Key</i>				Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME								
<i>H233157</i>																						
	<i>1 FL1701'</i>												<i>6/19</i>									
	<i>2 FL1801'</i>																					
	<i>3 FL1901.5'</i>																					
	<i>4 FL2001.5'</i>																					
	<i>5 FL2101.5'</i>																					
	<i>6 FL2201.5'</i>																					
	<i>7 WW1</i>																					
	<i>8 WW2</i>																					
	<i>9 FL2301'</i>																					
	<i>10 FL2401'</i>																					
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																						
Relinquished By: <i>Quentin Key</i>				Date: <i>6/19</i>		Received By: <i>Quinn R. [Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:												
				Time: <i>1315</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:												
Relinquished By:				Date:		Received By:		REMARKS:														
				Time:																		
Delivered By: (Circle One)				<i>#13</i>		Sample Condition		CHECKED BY:														
Sampler - UPS - Bus - Other:				<i>0.9°C / 0.3°C</i>		Cool Intact		(Initials)														
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>[Signature]</i>														
						<input type="checkbox"/> No <input type="checkbox"/> No																

FORM-006  
Revision 1.0

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



## • CARDINAL 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.				BILL TO				ANALYSIS REQUEST																																	
Project Manager:				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: 2617 West Marland				Company: Newbourn																																					
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																																					
Phone #: (575) 264-9884 Fax #:				Address:																																					
Project #: 18315 Project Owner:				City:																																					
Project Name: Black Sheep 4 Battery				State: NM Zip:																																					
Project Location:				Phone #:																																					
Sampler Name: Quentin Herrera				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H233157				9								1								1		6/19		1																	
11 FL 2501'				9																1				1																	
12 FL 2601'				9																1				1																	
13 FL 2701'				9																1				1																	



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

---

June 26, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLACK SHEEP 4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/20/23 15:07.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 28 @ 1' (H233204-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTX	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	06/21/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 29 @ 1' (H233204-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEx	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 30 @ 1' (H233204-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEX	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 31 @ 1' (H233204-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEX	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	06/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 32 @ 1' (H233204-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEX	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	06/21/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 33 @ 1' (H233204-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEx	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	06/21/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 34 @ 1' (H233204-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEx	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	06/21/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 35 @ 1' (H233204-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEX	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/21/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 36 @ 1' (H233204-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEX	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	06/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 37 @ 1' (H233204-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEx	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	06/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	172	86.1	200	0.174	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	174	87.1	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 38 @ 1' (H233204-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEX	<0.300	0.300	06/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	173	86.3	200	3.25	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	162	81.0	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 39 @ 1' (H233204-12)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878		
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52		
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97		
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34		
Total BTEX	<0.300	0.300	06/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	06/21/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	173	86.3	200	3.25	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	162	81.0	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 40 @ 1' (H233204-13)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEx	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	06/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	173	86.3	200	3.25	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	162	81.0	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 41 @ 1' (H233204-14)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEx	<0.300	0.300	06/22/2023	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	352	16.0	06/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	173	86.3	200	3.25	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	162	81.0	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 42 @ 1' (H233204-15)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEx	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	448	16.0	06/21/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	173	86.3	200	3.25	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	162	81.0	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 43 @ 1' (H233204-16)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEx	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	06/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	173	86.3	200	3.25	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	162	81.0	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 44 @ 1' (H233204-17)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEX	<0.300	0.300	06/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	173	86.3	200	3.25	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	162	81.0	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: FL 45 @ 1' (H233204-18)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEX	<0.300	0.300	06/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/21/2023	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	06/21/2023	ND	173	86.3	200	3.25	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	162	81.0	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: NW 1 (H233204-19)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEX	<0.300	0.300	06/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/21/2023	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	06/21/2023	ND	173	86.3	200	3.25	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	162	81.0	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 06/20/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/20/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shari Cisneros

**Sample ID: NW 2 (H233204-20)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2023	ND	2.06	103	2.00	0.878	
Toluene*	<0.050	0.050	06/22/2023	ND	2.01	100	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.02	101	2.00	2.97	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.00	100	6.00	3.34	
Total BTEX	<0.300	0.300	06/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/21/2023	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	06/21/2023	ND	173	86.3	200	3.25	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	162	81.0	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
<b>Project Manager:</b>				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
<b>Address:</b> P.O. Box 301				<b>Company:</b> NewBourne																			
<b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260				<b>Attn:</b> Connor Walker																			
<b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429				<b>Address:</b>																			
<b>Project #:</b> 18315 <b>Project Owner:</b>				<b>City:</b>																			
<b>Project Name:</b> Black Sheep 4 BATTERY				<b>State:</b> <b>Zip:</b>																			
<b>Project Location:</b>				<b>Phone #:</b>																			
<b>Sampler Name:</b> Quentin Ryan				<b>Fax #:</b>																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(GIRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME									
H233204													6/20										
6.5 X1	FL2801'																						
6.5 X2	FL2901'																						
6.5 X3	FL3001'																						
6.5 X4	FL3101'																						
6.5 X5	FL3201'																						
6.5 X6	FL3301'																						
6.5 X7	FL3401'																						
6.5 X8	FL3501'																						
6.5 X9	FL3601'																						
6.5 X10	FL3701'																						
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																							
<b>Relinquished By:</b>				<b>Date:</b> 6/20		<b>Received By:</b>				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No				<b>Add'l Phone #:</b>									
<b>Relinquished By:</b>				<b>Time:</b> 15:07		<b>Received By:</b>				<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No				<b>Add'l Fax #:</b>									
<b>Delivered By: (Circle One)</b>				<b>Temperature:</b> 6.9°C / 6.3°C		<b>Sample Condition:</b> Cool Intact				<b>CHECKED BY:</b>				<b>REMARKS:</b>									
<b>Sampler - UPS - Bus - Other:</b>				<b>#113</b>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Please email results to pm@etechenv.com.									

FORM-006  
Revision 1.0

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



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> <b>Address:</b> P.O. Box 301 <b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260 <b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429 <b>Project #:</b> 18315 <b>Project Owner:</b> <b>Project Name:</b> Black Sheep 4 Battery <b>Project Location:</b> <b>Sampler Name:</b> Dustin Ryan				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Marlboro Ne <b>Attn:</b> Connor Walker <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>																		
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
H233204																										
11	FL3801'												6/20													
12	FL3901'																									
13	FL4001'																									
14	FL4101'																									
15	FL4201'																									
16	FL4301'																									
17	FL4401'																									
18	FL4501'																									
19	NW1																									
20	NW2																									

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<b>Relinquished By:</b> [Signature] <b>Relinquished By:</b>	<b>Date:</b> 6/20 <b>Time:</b> 15:07	<b>Received By:</b> [Signature] <b>Received By:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>REMARKS:</b> email Lance
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:	6.9°C 6.3°C #113	<b>Sample Condition</b> Cont. Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>CHECKED BY:</b> (Initials) DC

Please email results to pm@etechenv.com.

FORM-006  
Revision 1.0

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



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

June 26, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLACK SHEEP 4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/21/23 15:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 46 @ 6 INCH (H233224-01)**

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	06/23/2023	ND	2.10	105	2.00	0.326	
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740	
Total BTEX	<0.300	0.300	06/23/2023	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	96.0	16.0	06/22/2023	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	06/23/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 65.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 47 @ 6 INCH (H233224-02)**

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	06/23/2023	ND	2.10	105	2.00	0.326	
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740	
Total BTEX	<0.300	0.300	06/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	160	16.0	06/22/2023	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	06/23/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 48 @ 6 INCH (H233224-03)**

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	06/23/2023	ND	2.10	105	2.00	0.326		
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740		
Total BTEX	<0.300	0.300	06/23/2023	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	176	16.0	06/22/2023	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	06/23/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	16.2	10.0	06/23/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 49 @ 6 INCH (H233224-04)**

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	06/23/2023	ND	2.10	105	2.00	0.326		
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740		
Total BTEX	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	336	16.0	06/22/2023	ND	400	100	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 3 (H233224-05)**

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	06/23/2023	ND	2.10	105	2.00	0.326		
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740		
Total BTEX	<0.300	0.300	06/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	17.0	10.0	06/23/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 50 @ 6 INCH (H233224-06)**

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	06/23/2023	ND	2.10	105	2.00	0.326		
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740		
Total BTEX	<0.300	0.300	06/23/2023	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	80.0	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 51 @ 6 INCH (H233224-07)**

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	06/23/2023	ND	2.10	105	2.00	0.326	
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740	
Total BTEX	<0.300	0.300	06/23/2023	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	112	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 52 @ 6 INCH (H233224-08)**

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	06/23/2023	ND	2.10	105	2.00	0.326		
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740		
Total BTEX	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	160	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 53 @ 6 INCH (H233224-09)**

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	06/23/2023	ND	2.10	105	2.00	0.326		
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740		
Total BTEX	<0.300	0.300	06/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 3 (H233224-10)**

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	06/23/2023	ND	2.10	105	2.00	0.326	
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740	
Total BTEX	<0.300	0.300	06/23/2023	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	128	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 54 @ 2 FOOT (H233224-11)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2023	ND	2.10	105	2.00	0.326		
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740		
Total BTX	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	06/22/2023	ND	400	100	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	06/23/2023	ND	192	96.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	189	94.7	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 4 (H233224-12)**

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	06/23/2023	ND	2.10	105	2.00	0.326		
Toluene*	<0.050	0.050	06/23/2023	ND	2.00	100	2.00	7.29		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	0.650		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.52	109	6.00	0.740		
Total BTEX	<0.300	0.300	06/23/2023	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	80.0	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	192	96.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	189	94.7	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 5 (H233224-13)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.21	110	2.00	1.96	
Toluene*	<0.050	0.050	06/23/2023	ND	2.12	106	2.00	5.18	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	2.06	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.34	106	6.00	2.02	
Total BTEX	<0.300	0.300	06/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	240	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	192	96.1	200	2.65	
DRO >C10-C28*	40.6	10.0	06/23/2023	ND	189	94.7	200	2.68	
EXT DRO >C28-C36	23.9	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 6 (H233224-14)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.21	110	2.00	1.96	
Toluene*	<0.050	0.050	06/23/2023	ND	2.12	106	2.00	5.18	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	2.06	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.34	106	6.00	2.02	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	192	96.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	189	94.7	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 7 (H233224-15)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.21	110	2.00	1.96	
Toluene*	<0.050	0.050	06/23/2023	ND	2.12	106	2.00	5.18	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	2.06	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.34	106	6.00	2.02	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	192	96.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	189	94.7	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 5 (H233224-16)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.21	110	2.00	1.96	
Toluene*	<0.050	0.050	06/23/2023	ND	2.12	106	2.00	5.18	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	2.06	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.34	106	6.00	2.02	
Total BTEX	<0.300	0.300	06/23/2023	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	112	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	192	96.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	189	94.7	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/21/2023  
 Reported: 06/26/2023  
 Project Name: BLACK SHEEP 4 BATTERY  
 Project Number: 18315  
 Project Location: MEWBOURNE

Sampling Date: 06/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 6 (H233224-17)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.21	110	2.00	1.96	
Toluene*	<0.050	0.050	06/23/2023	ND	2.12	106	2.00	5.18	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	2.06	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.34	106	6.00	2.02	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/22/2023	ND	400	100	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	06/23/2023	ND	192	96.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	189	94.7	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 20 of 21

Company Name: <del>Mewbourne Oil Company</del> <u>Eteeh Environmental</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>														
Project Manager: Lance Crenshaw				P.O. #:																		
Address: 3100 Plains Hwy				Company: <u>Mewbourne</u>																		
City: Lovington		State: NM		Zip: 88260		Attn: <u>Lance Crenshaw</u>																
Phone #: 575-396-2378		Fax #: 575-396-1429		Address: P.O. Box 301		<u>Waller</u>																
Project #: <del>48440</del> <u>18315</u>		Project Owner: Mewbourne Oil Company		City: Lovington																		
Project Name: <del>Box 1540</del> <u>Black Sheep 4 Battery</u>				State: NM		Zip: 88260																
Project Location: <del>UL Sec TS RE</del>				Phone #: 575-396-2378																		
Sampler Name: <u>Dwight Reyna</u>				Fax #: 575-396-1429																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021					
<u>H23322A</u>													<u>6/21</u>									
	<u>1 FL 46 @ 1 inch</u>																					
	<u>2 FL 47 @ 1 inch</u>																					
	<u>3 FL 48 @ 1 inch</u>																					
	<u>4 FL 49 @ 1 inch</u>																					
	<u>5 NW 3</u>																					
	<u>6 FL 50 @ 1 inch</u>																					
	<u>7 FL 51 @ 1 inch</u>																					
	<u>8 FL 52 @ 1 inch</u>																					
	<u>9 FL 53 @ 1 inch</u>																					
	<u>10 NW 3</u>																					

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.

Relinquished By: <u>Dwight Reyna</u>	Date: <u>6/21</u>	Received By: <u>Amara R. Delatorre</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <u>1510</u>	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date:	Sample Condition	REMARKS: Email results to <u>lance@etechnv.com</u>	
Sampler - UPS - Bus - Other: <u>4.9c / 4.3c</u>	Time:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		CHECKED BY: (Initials) <u>JD</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Page 21 of 21

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: <u>Lance C. Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																	
Address: 2617 West Marland				Company: <u>Newborne</u>																					
City: Hobbs State: NM Zip: 88240				Attn: <u>Connor Walker</u>																					
Phone #: (575) 264-9884 Fax #:				Address:																					
Project #: <u>18315</u> Project Owner:				City:																					
Project Name: <u>Black Sheep 4 Battery</u>				State: NM Zip:																					
Project Location:				Phone #:																					
Sampler Name: <u>Quattro</u>				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING													
								GROUNDWATER																	
								WASTEWATER																	
								SOIL																	
								OIL																	
								SLUDGE																	
								OTHER:																	
								ACID/BASE:																	
								ICE / COOL																	
								OTHER:																	
										DATE		TIME													
<u>H233224</u>		<u>FL54 2 foot</u>		<u>1</u>																					
<u>11</u>		<u>NW4</u>																							
<u>12</u>		<u>NW5</u>																							
<u>13</u>		<u>NW6</u>																							
<u>14</u>		<u>NW7</u>																							
<u>15</u>		<u>SW5</u>																							
<u>16</u>		<u>SW6</u>																							
<u>17</u>																									
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																									
Relinquished By: <u>[Signature]</u>				Date: <u>6/21</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
				Time: <u>1510</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
Relinquished By:				Date:		Received By:				REMARKS:															
				Time:																					
Delivered By: (Circle One)						Sample Condition				CHECKED BY:															
Sampler - UPS - Bus - Other:				<u>4.9c / 4.3c</u>		Cool Intact				<u>90</u>															
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																			

FORM-006

Revision 1.0

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

June 27, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLACK SHEEP 4-33 B 30 B FED COM 1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/27/23 13:25.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 06/27/2023  
Reported: 06/27/2023  
Project Name: BLACK SHEEP 4-33 B 30 B FED COM 1H I  
Project Number: 17711  
Project Location: MEWBOURNE - RURAL EUNICE

Sampling Date: 06/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FL 4 @ 6' (H233322-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	06/27/2023	ND	432	108	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For 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

[illegible]



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

---

August 29, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLACK SHEEP 4 BATTERY SWD LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/23/23 16:22.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 28 @ 1 (H234593-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTX	<0.300	0.300	08/26/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 29 @ 1 (H234593-02)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.95	97.5	2.00	2.77		
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83		
Total BTX	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 30 @ 1 (H234593-03)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.95	97.5	2.00	2.77		
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83		
Total BTX	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 31 @ 1 (H234593-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.95	97.5	2.00	2.77		
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83		
Total BTEX	<0.300	0.300	08/26/2023	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	<16.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23		
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13		
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND						

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 32 @ 1 (H234593-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.95	97.5	2.00	2.77		
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 33 @ 1 (H234593-06)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.95	97.5	2.00	2.77		
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83		
Total BTX	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 34 @ 1 (H234593-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.95	97.5	2.00	2.77		
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23		
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13		
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND						

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 35 @ 1 (H234593-08)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.95	97.5	2.00	2.77		
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 36 @ 1 (H234593-09)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.95	97.5	2.00	2.77		
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83		
Total BTX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 37 @ 1 (H234593-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.95	97.5	2.00	2.77		
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 38 @ 1 (H234593-11)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.99	99.6	2.00	11.2		
Toluene*	<0.050	0.050	08/26/2023	ND	2.10	105	2.00	15.7		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.06	103	2.00	9.27		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.13	102	6.00	9.50		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 39 @ 1 (H234593-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.99	99.6	2.00	11.2		
Toluene*	<0.050	0.050	08/26/2023	ND	2.10	105	2.00	15.7		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.06	103	2.00	9.27		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.13	102	6.00	9.50		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 40 @ 1 (H234593-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.99	99.6	2.00	11.2		
Toluene*	<0.050	0.050	08/26/2023	ND	2.10	105	2.00	15.7		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.06	103	2.00	9.27		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.13	102	6.00	9.50		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 41 @ 1 (H234593-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.99	99.6	2.00	11.2		
Toluene*	<0.050	0.050	08/26/2023	ND	2.10	105	2.00	15.7		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.06	103	2.00	9.27		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.13	102	6.00	9.50		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 42 @ 1 (H234593-15)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.99	99.6	2.00	11.2		
Toluene*	<0.050	0.050	08/26/2023	ND	2.10	105	2.00	15.7		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.06	103	2.00	9.27		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.13	102	6.00	9.50		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 43 @ 1 (H234593-16)**

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	08/26/2023	ND	1.99	99.6	2.00	11.2		
Toluene*	<0.050	0.050	08/26/2023	ND	2.10	105	2.00	15.7		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.06	103	2.00	9.27		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.13	102	6.00	9.50		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 44 @ 1 (H234593-17)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2023	ND	1.99	99.6	2.00	11.2		
Toluene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	15.7		
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.06	103	2.00	9.27		
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.13	102	6.00	9.50		
Total BTEX	<0.300	0.300	08/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23		
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13		
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND						

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: FL 45 @ 1 (H234593-18)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2023	ND	1.99	99.6	2.00	11.2		
Toluene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	15.7		
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.06	103	2.00	9.27		
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.13	102	6.00	9.50		
Total BTEX	<0.300	0.300	08/27/2023	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	112	16.0	08/28/2023	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	08/25/2023	ND	180	89.9	200	0.295		
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	199	99.5	200	1.01		
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND						

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: NW 1 (H234593-19)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2023	ND	1.99	99.6	2.00	11.2		
Toluene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	15.7		
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.06	103	2.00	9.27		
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.13	102	6.00	9.50		
Total BTEX	<0.300	0.300	08/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/28/2023	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	08/26/2023	ND	180	89.9	200	0.295	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	199	99.5	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 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:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4 BATTERY SWD LINE REI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL HOBBS		

**Sample ID: NW 2 (H234593-20)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2023	ND	1.99	99.6	2.00	11.2		
Toluene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	15.7		
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.06	103	2.00	9.27		
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.13	102	6.00	9.50		
Total BTEX	<0.300	0.300	08/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/28/2023	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	08/26/2023	ND	180	89.9	200	0.295	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	199	99.5	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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\*=Accredited Analyte

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---

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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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL 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: <u>Lane Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: <u>Etech</u>																							
City: Hobbs		State: NM		Zip: 88240		Attn: <u>Lane Crenshaw</u>																					
Phone #: (575) 264-9884		Fax #:		Address:																							
Project #:		Project Owner: <u>Mewbourn</u>		City: <u>Hobbs</u>																							
Project Name: <u>Black Sheep 4 Battery SWD Line Release</u>				State: <u>NM</u> Zip: <u></u>																							
Project Location: <u>Rural Hobbs</u>				Phone #:																							
Sampler Name: <u>Dominic Casarez</u>				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
<u>H234593</u>																											
<u>DC 1</u>		<u>FL 28 @ 1</u>		<u>1</u>						<u>✓</u>								<u>✓</u>		<u>✓</u>		<u>✓</u>					
<u>2</u>		<u>FL 29 @ 1</u>																									
<u>3</u>		<u>FL 30 @ 1</u>																									
<u>4</u>		<u>FL 31 @ 1</u>																									
<u>5</u>		<u>FL 32 @ 1</u>																									
<u>6</u>		<u>FL 33 @ 1</u>																									
<u>7</u>		<u>FL 34 @ 1</u>																									
<u>8</u>		<u>FL 35 @ 1</u>																									
<u>9</u>		<u>FL 36 @ 1</u>																									
<u>10</u>		<u>FL 37 @ 1</u>																									
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Relinquished By: <u>Dominic</u>				Date: <u>8-23</u>		Received By: <u>Tamara Aldridge</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: <u>1622</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:																							
Delivered By: (Circle One)				#140		Sample Condition				CHECKED BY: (Initials)				Please email copy of COC and results to pm@etechenv.com.													
Sampler - UPS - Bus - Other: <u>-4.1c</u>						Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				<u>TO</u>																	
						Yes <input type="checkbox"/> No <input type="checkbox"/>																					



## CARDINAL 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.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Lane Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: 2617 West Marland				Company: McWbourn																																					
City: Hobbs State: NM Zip: 88240				Attn: Lane Crenshaw																																					
Phone #: (575) 264-9884 Fax #:				Address:																																					
Project #: Project Owner: McWbourn				City:																																					
Project Name: Black Sheep 4 Battery SWD line Relics				State: Zip:																																					
Project Location: Rural Hobbs N.M.				Phone #:																																					
Sampler Name: Dominic Casarez				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(C)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H234593																																									
DL 11 FL 38				C 1																						8 23															
12 FL 39																																									
13 FL 40																																									
14 FL 41																																									
15 FL 42																																									
16 FL 43																																									
17 FL 44																																									
18 R45																																									
19 NW 1																																									
20 NW 2																																									
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Relinquished By: [Signature]										Date: 8-23										Received By: [Signature]										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:											
										Time: 1632																				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:											
Relinquished By:										Date:										Received By:										REMARKS:											
										Time:																															
Delivered By: (Circle One)										#140										Sample Condition										CHECKED BY: (Initials)											
Sampler - UPS - Bus - Other: -4.1c																				<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact										[Signature]											
																				<input type="checkbox"/> Yes <input type="checkbox"/> No										<input type="checkbox"/> Yes <input type="checkbox"/> No											

## **Appendix E**

### **Regulatory Correspondence**

**From:** [Lance Crenshaw](#)  
**To:** [Enviro, OCD, EMNRD](#); [Joel Lowry](#); [Connor Walker](#); [Ben Arguijo](#); [jbroom@mewbourne.com](mailto:jbroom@mewbourne.com)  
**Subject:** Confirmation Sampling Notification  
**Date:** Thursday, June 22, 2023 10:43:38 AM

---

This email serves as notice that Etech intends to collect excavation confirmation soil samples on June 26-27, 2023, from the following locations/reportable release sites:

Mewbourne Oil Co – Black Sheep 4 Battery SWD Line - nAPP2317326766

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

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

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS  
  
Action 347841

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	347841
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317326766
Incident Name	NAPP2317326766 BLACK SHEEP 4 BATTERY SWD LINE @ 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	BLACK SHEEP 4 BATTERY SWD LINE
Date Release Discovered	06/12/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pipeline (Any)   Produced Water   Released: 49 BBL   Recovered: 0 BBL   Lost: 49 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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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
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QUESTIONS, Page 2

Action 347841

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	347841
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 05/24/2024
--	---

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

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**District IV**

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 347841

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	347841
	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	Estimate or Other
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	Greater than 5 (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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 200 and 300 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

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

Requesting a remediation plan approval with this submission	Yes
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.	
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)	1840
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	64.5
GRO+DRO	(EPA SW-846 Method 8015M)	40.6
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	06/14/2023
On what date will (or did) the final sampling or liner inspection occur	06/26/2024
On what date will (or was) the remediation complete(d)	08/23/2023
What is the estimated surface area (in square feet) that will be reclaimed	10800
What is the estimated volume (in cubic yards) that will be reclaimed	2460
What is the estimated surface area (in square feet) that will be remediated	10800
What is the estimated volume (in cubic yards) that will be remediated	2460

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

QUESTIONS, Page 4

Action 347841

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	347841
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 05/24/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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**District II**  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5  
  
Action 347841

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	347841
	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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QUESTIONS, Page 6

Action 347841

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	347841
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	347851
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/26/2024
What was the (estimated) number of samples that were to be gathered	72
What was the sampling surface area in square feet	33324

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	10800
What was the total volume (cubic yards) remediated	2460
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	10800
What was the total volume (in cubic yards) reclaimed	2460
Summarize any additional remediation activities not included by answers (above)	Please see attached closure request for complete remediation details.

*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: 05/24/2024
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QUESTIONS, Page 7  
  
Action 347841

QUESTIONS (continued)

Operator:  MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:  14744
	Action Number:  347841
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS  
  
Action 347841

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	347841
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	6/26/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/26/2024