

Incident ID	nAPP2315058592
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?	20 (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 not 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 1/2-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: 8/16/2023

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

OCD Only

Received by: Shelly Wells Date: 8/17/2023

Incident ID	nAPP2315058592
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Application ID	

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: 8/16/2023
 email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: Shelly Wells Date: 8/17/2023

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

Closure Approved by:  Date: 12/04/2023
 Printed Name: Nelson Velez Title: Environmental Specialist – Adv

Remediation Summary & Soil Closure Request

Mewbourne Oil Company Black Sheep 4/33 B3OB Fed Com #1H Battery SWD

Lea County, New Mexico
Unit Letter "O", Section 4, Township 22 South, Range 34 East
Latitude 32.4146402° North, Longitude 103.4744698° West
NMOCD Reference No. nAPP2315058592

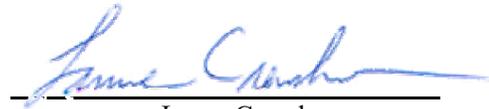
Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D
Lubbock, Texas 79413



Ben J. Arguijo



Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Black Sheep 4/33 B3OB Fed Com #1H Battery SWD (henceforth, "Black Sheep 4/33 Battery"). Details of the release are summarized below:

Location of Release Source				
Latitude: <u>32.4146402°</u>		Longitude: <u>-103.4744698°</u>		
Provided GPS are in WGS84 format.				
Site Name: Black Sheep 4/33 B3OB Fed Com #1H Battery SWD		Site Type: Pipeline		
Date Release Discovered: 5/18/2023		API # (if applicable): N/A		
Unit Letter	Section	Township	Range	County
"O"	4	22S	34E	Lea
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> 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) 78		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 fuse on a 6" poly line failed.				
Initial Response				
<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the 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 4/33 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
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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
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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 4/33 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 May 26, 2023, remediation activities commenced at the Black Sheep 4/33 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 May 30, 2023, Etech collected 26 confirmation soil samples (NW1, NW2, EW1, EW2, EW3, SW1, SW2, WW1, WW2, WW3, and FL1 @ 3 through FL16 @ 2) 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 and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limit (MDL), with the exception of soil sample FL16 @ 2, which exhibited a TPH concentration of 19.3 mg/kg. Chloride concentrations ranged from 32.0 mg/kg in soil sample FL10 @ 3 to 640 mg/kg in soil sample EW1, which exceeded the NMOCD Closure Criterion.

On June 2, 2023, Etech collected 22 confirmation soil samples (NW4, NW5, EW4, SW3, WW4, WW5, and FL17 @ 3 through FL32 @ 2) 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 sample FL30 @ 3, which exhibited a TPH concentration of 15.7 mg/kg. Chloride concentrations ranged from 48.0 mg/kg in soil sample FL18 @ 3 to 480 mg/kg in soil sample FL29 @ 1.

On June 5, 2023, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample EW1. Etech collected one (1) confirmation soil sample (EWB) from the sidewall 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 96.0 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

The final dimensions of the excavated area were approximately 130 to 212 feet in length, six (6) to 46 feet in width, one (1) to three (3) feet in depth. During the course of remediation activities, Etech transported approximately 1,040 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 890 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 4/33 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

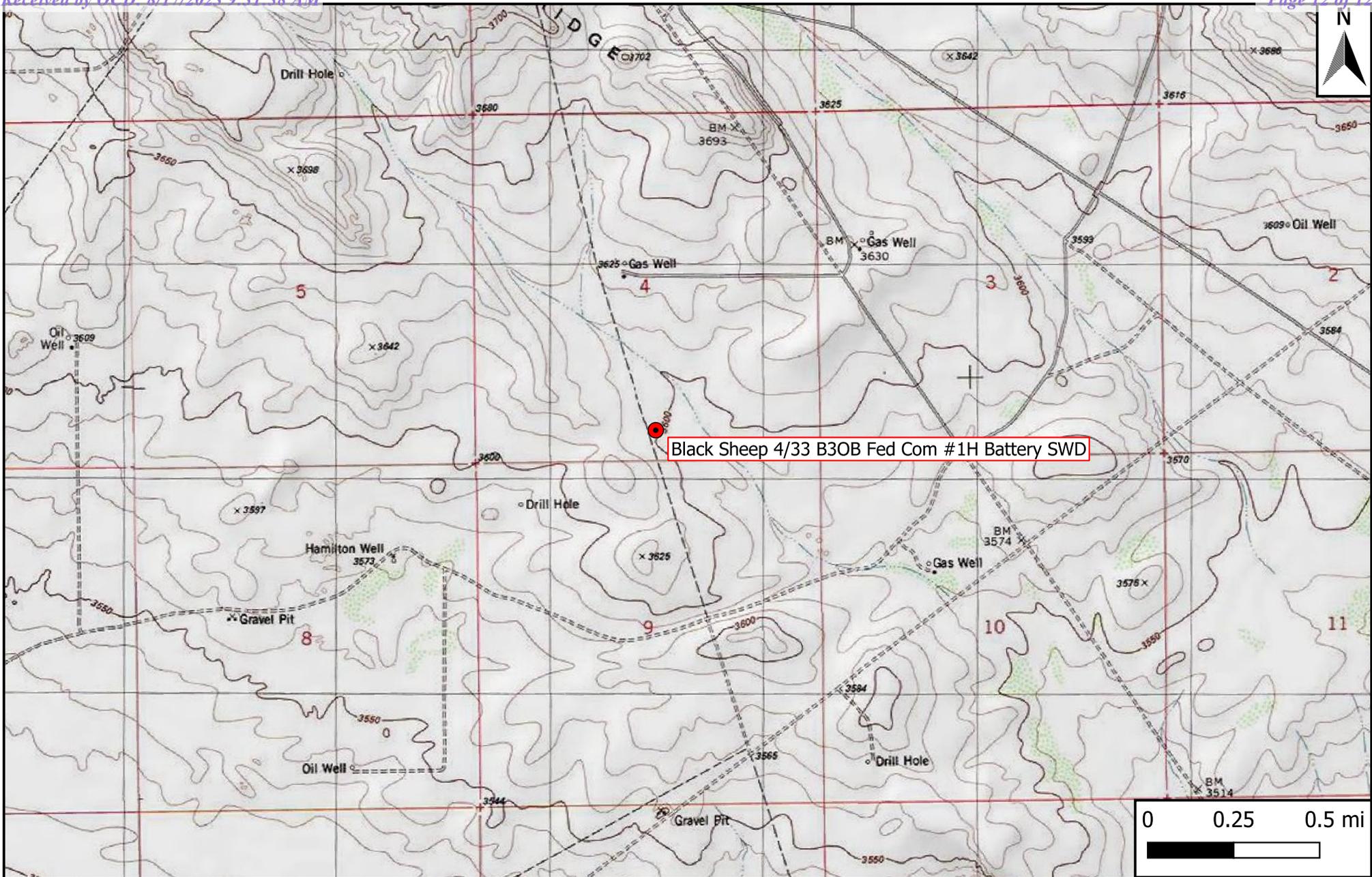
620 E. Greene Street

Carlsbad, NM 88220

(Electronic Submission)

Figure 1

Topographic Map



Legend
 ● Site Location

Figure 1
 Topographic Map
 Mewbourne Oil Company
 Black Sheep 4-33 B3OB Fed Com #1H Battery SWD
 GPS: 32.4146402, -103.4744698
 Lea County

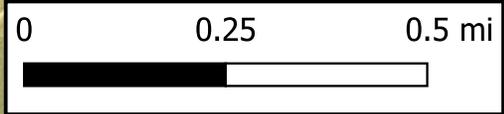
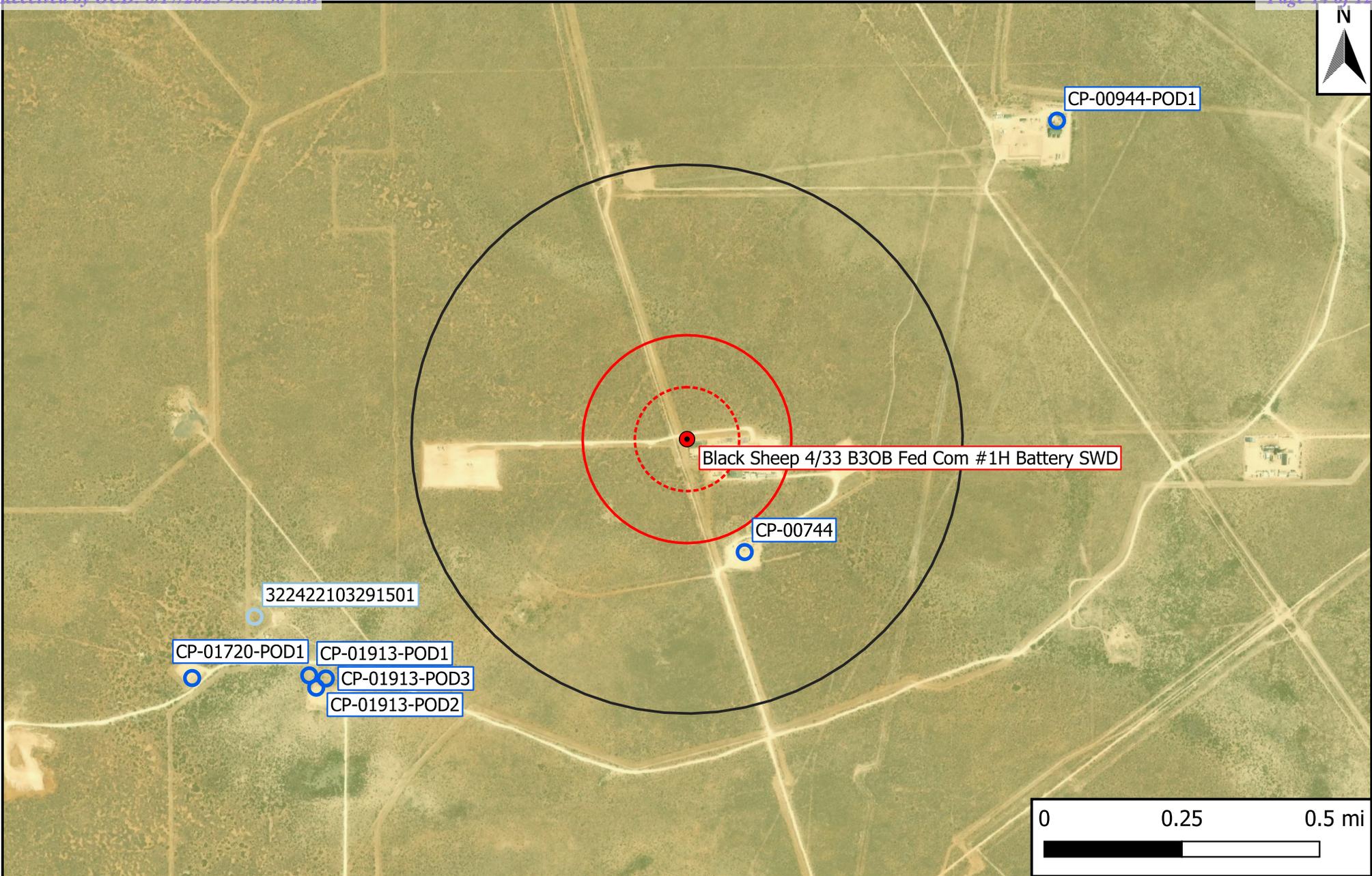


Drafted: bja

Checked: lc

Date: 7/12/23

Figure 2 Site Characterization Map

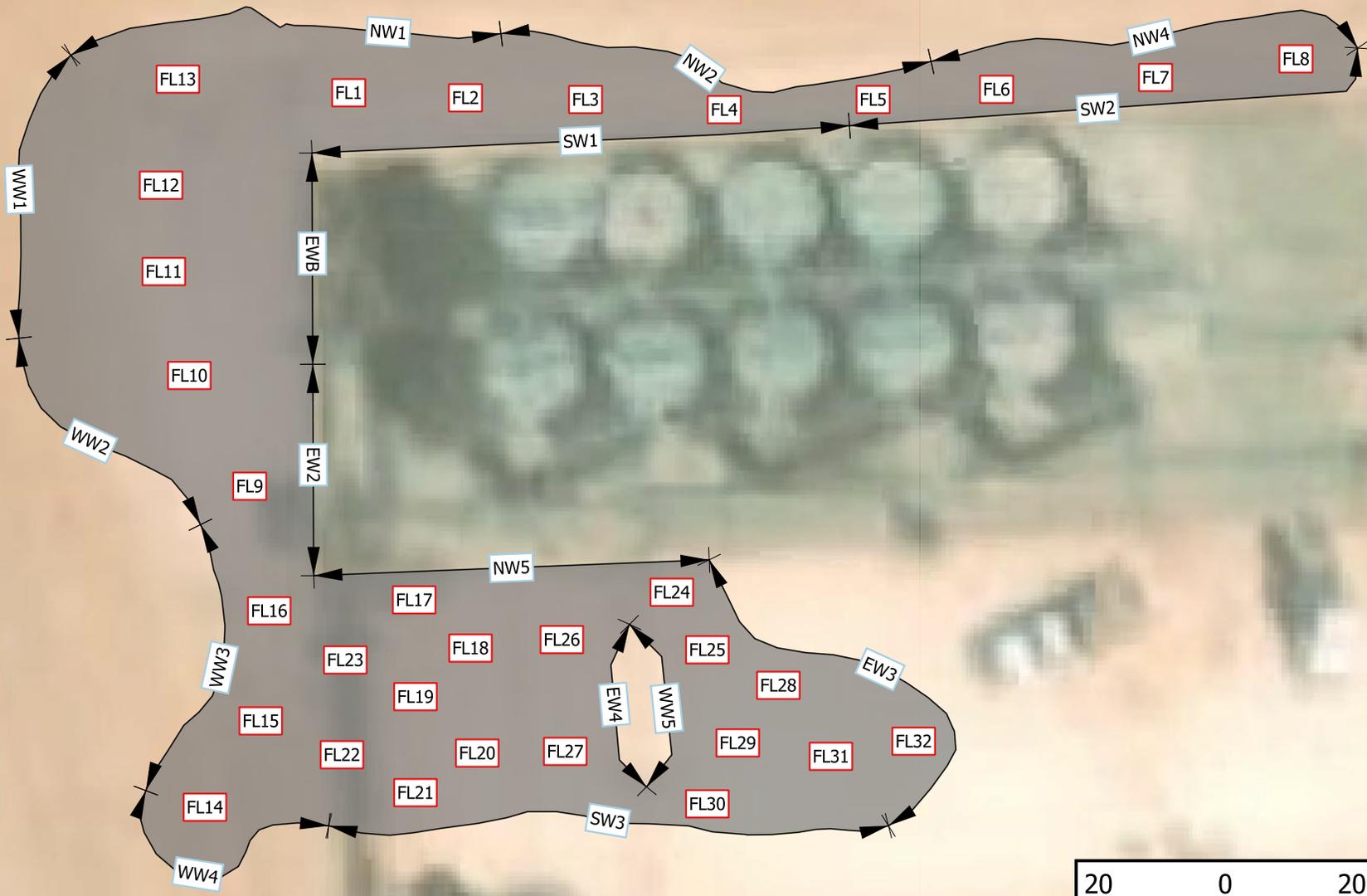


Legend		
Site Location	1% Annual Flood Chance	500-Ft Radius
Well - USGS	Emergent/Forested Wetlands	1,000-Ft Radius
Well - Exploratory/Monitor	Freshwater Pond/Lake	0.5-Mi Radius
Potash Mine Workings	Karst Potential (Low/Med./High)	Municipal Boundary
	Riverine	

Figure 2
 Site Characterization Map
 Mewbourne Oil Company
 Black Sheep 4-33 B3OB Fed Com #1H Battery
 GPS: 32.414251, -103.474413
 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 4-33 B3OB Fed Com #1H Battery SWD
 GPS: 32.4146402, -103.4744698
 Lea County



Drafted: bja Checked: jwl 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 4/33 B3OB Fed Com #1H Battery SWD NMOCD Ref. #: nAPP2315058592											
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NW1	5/30/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW2	5/30/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW4	6/2/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW5	6/2/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW1	5/30/2023	0-3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
EWB	6/5/2023	0-3	In-Situ	-	-	-	-	-	-	-	96.0
EW2	5/30/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EW3	5/30/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW4	6/2/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
SW1	5/30/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW2	5/30/2023	0-2	In-Situ	<0.050	<0.300	<10.0	19.3	19.3	<10.0	19.3	240
SW3	6/2/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WW1	5/30/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW2	5/30/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW3	5/30/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WW4	6/2/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW5	6/2/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL1 @ 3	5/30/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL2 @ 3	5/30/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL3 @ 3	5/30/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL4 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL5 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL6 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL7 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL8 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL9 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL10 @ 3	5/30/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL11 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL12 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL13 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL14 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL15 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL16 @ 2	5/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL17 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL18 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL19 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL20 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL21 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL22 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL23 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL24 @ 1	6/2/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL25 @ 1	6/2/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL26 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL27 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208

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 4/33 B3OB Fed Com #1H Battery SWD NMOCD Ref. #: nAPP2315058592												
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)	
FL28 @ 1	6/2/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FL29 @ 1	6/2/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480	
FL30 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	15.7	15.7	<10.0	15.7	160	
FL31 @ 2	6/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FL32 @ 2	6/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	

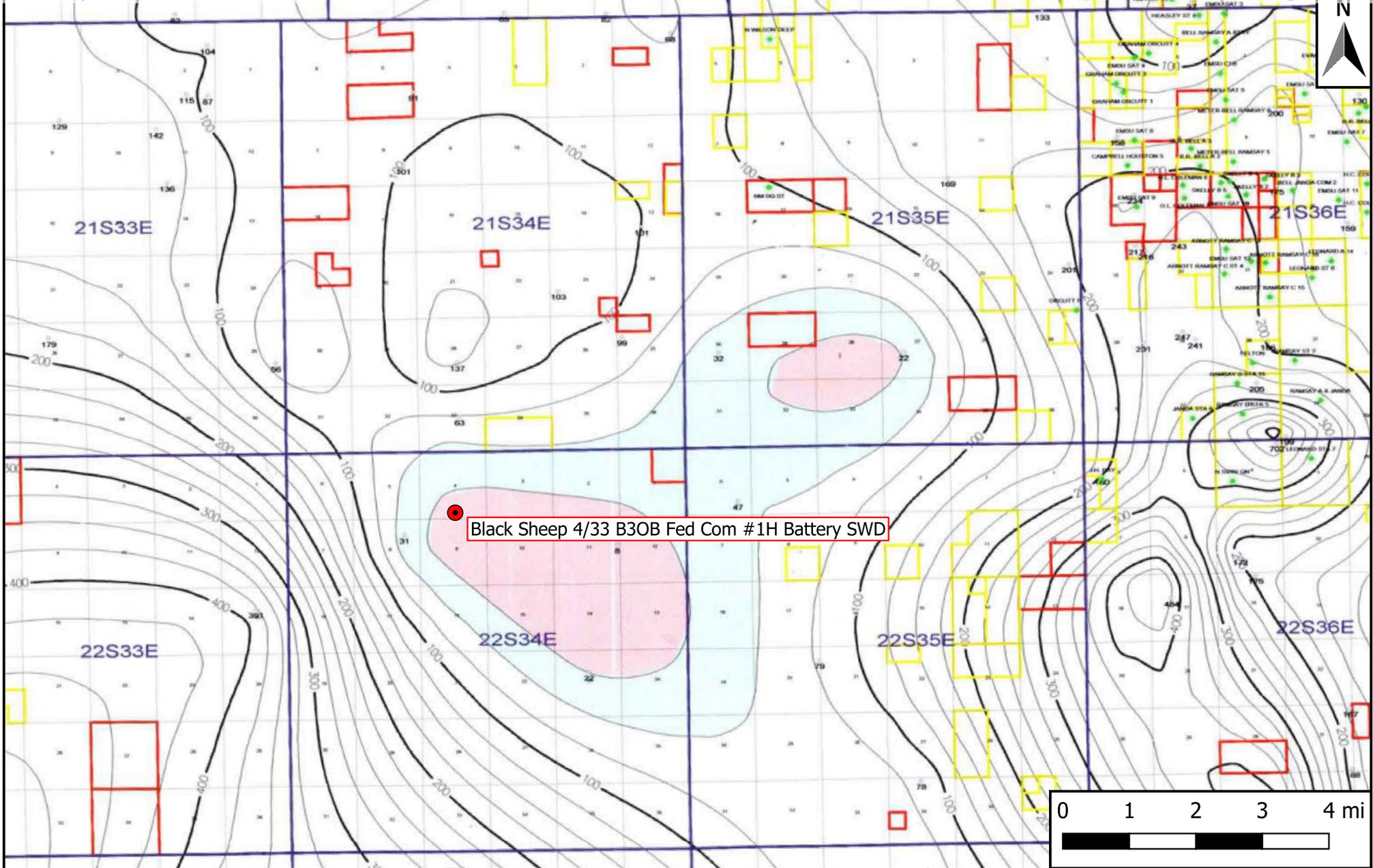
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Black Sheep 4/33 B3OB Fed Com #1H Battery SWD

Legend
● Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 Mewbourne Oil Company
 Black Sheep 4-33 B3OB Fed Com #1H Battery SWD
 GPS: 32.4146402, -103.4744698
 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
CP 00744	CP	LE		1	2	09	22S	34E		643618	3587091*	370	460		
CP 00597 POD1	CP	LE		2	2	08	22S	34E		642410	3587074*	1095	35		
CP 01913 POD3	CP	LE		1	4	2	08	22S	34E	642394	3586721	1265	26		
CP 01913 POD1	CP	LE		1	4	2	08	22S	34E	642346	3586730	1301	35	31	4
CP 01913 POD2	CP	LE		1	4	2	08	22S	34E	642366	3586694	1304	31		
CP 00944 POD1	CP	LE		3	1	03	22S	34E		644531	3588351	1426	109	70	39
CP 01720 POD1	CP	LE		1	3	2	08	22S	34E	642003	3586723	1605	1190	824	366

Average Depth to Water: **308 feet**
 Minimum Depth: **31 feet**
 Maximum Depth: **824 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 643449.51

Northing (Y): 3587420.77

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.



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)				
Well Tag	POD Number	(quarters are smallest to largest)	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00744		1	2	09	22S	34E	643618	3587091*	

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 Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 460 feet	Depth Water:

*UTM location was derived from PLSS - see Help

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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. _____
All: 17
STATE ENGINEER OFFICE
SANTA FE, NEW MEXICO

Well was drilled under Permit No. CP 744 and is located in the _____
a. $\frac{1}{4}$ E $\frac{1}{2}$ $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 9 Township 22-S. Range _____ 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**



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00597 POD1	2	2	08	22S	34E	642410	3587074*	

Driller License: 122	Driller Company: UNKNOWN	
Driller Name:		
Drill Start Date:	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 3 GPM
Casing Size: 6.63	Depth Well: 35 feet	Depth Water:

*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	Tw	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".

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2/28/23 11:01 AM

TRANSACTION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
NA	CP 01913 POD3	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
		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

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		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE	32	24	30.50 N		
	LONGITUDE	103	29	8.88 W			
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)		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	26	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-POD3	POD NO. POD3	TRN NO. 732035			
LOCATION Expl. 22-34-142	WELL TAG ID NO. _____	PAGE 1 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)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01913 POD1	1	4	2	08	22S	34E	642346	3586730

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

Water Bearing Stratifications:	Top	Bottom	Description
	29	34	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	0	35

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

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)	LATITUDE	DEGREES 32	MINUTES 24	SECONDS 29.64	N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND
		LONGITUDE	103	29	9.96	W		* 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						

USE OF AUG 11 2022 PM 4:11

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

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)					(NAD83 UTM in meters)
Well Tag	POD Number	(quarters are smallest to largest)					
		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



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)			(NAD83 UTM in meters)
		(quarters are smallest to largest)			
Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng
					X
					Y
	CP 00944 POD1	3 1 03	22S	34E	644531 3588351

Driller License: 1456	Driller Company: WHITE DRILLING COMPANY	
Driller Name: WHITE, JOHN W		
Drill Start Date: 03/05/2007	Drill Finish Date: 03/05/2007	Plug Date:
Log File Date: 03/22/2007	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 5.00	Depth Well: 109 feet	Depth Water: 70 feet

Water Bearing Stratifications:	Top	Bottom	Description
	62	72	Other/Unknown

Casing Perforations:	Top	Bottom
	57	97

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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 01720 POD1	1 3 2 08	22S 34E	642003	3586723

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: CORKY GLENN		
Drill Start Date: 05/02/2019	Drill Finish Date: 05/07/2019	Plug Date:
Log File Date: 06/05/2019	PCW Rcv Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield: 100 GPM
Casing Size: 8.13	Depth Well: 1190 feet	Depth Water: 824 feet

Water Bearing Stratifications:	Top	Bottom	Description
	824	1109	Sandstone/Gravel/Conglomerate
	1109	1140	Sandstone/Gravel/Conglomerate
	1140	1171	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	728	1190

Meter Number: 19147	Meter Make: SEAMETRICS
Meter Serial Number: 032019000828	Meter Multiplier: 1.0000
Number of Dials: 9	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
09/05/2019	2019	0	A	RPT		0
09/14/2019	2019	24359	A	RPT	10 day pump test	3.140
04/09/2020	2020	24539	A	RPT		0.023
05/31/2020	2020	24539	A	WEB		0 X
06/30/2020	2020	24539	A	WEB		0 X
07/31/2020	2020	61186	A	WEB		4.724 X
08/31/2020	2020	67016	A	WEB		0.751 X
09/30/2020	2020	67220	A	WEB		0.026 X
10/31/2020	2020	96007	A	WEB		3.710 X
11/30/2020	2020	149485	A	WEB		6.893 X
12/31/2020	2020	174672	A	WEB		3.246 X
01/31/2021	2021	206617	A	WEB		4.117 X
02/28/2021	2021	249261	A	WEB		5.497 X
03/31/2021	2021	311766	A	WEB		8.056 X
04/30/2021	2021	339969	A	WEB		3.635 X
05/31/2021	2021	380626	A	WEB		5.240 X
06/30/2021	2021	388412	A	WEB		1.004 X

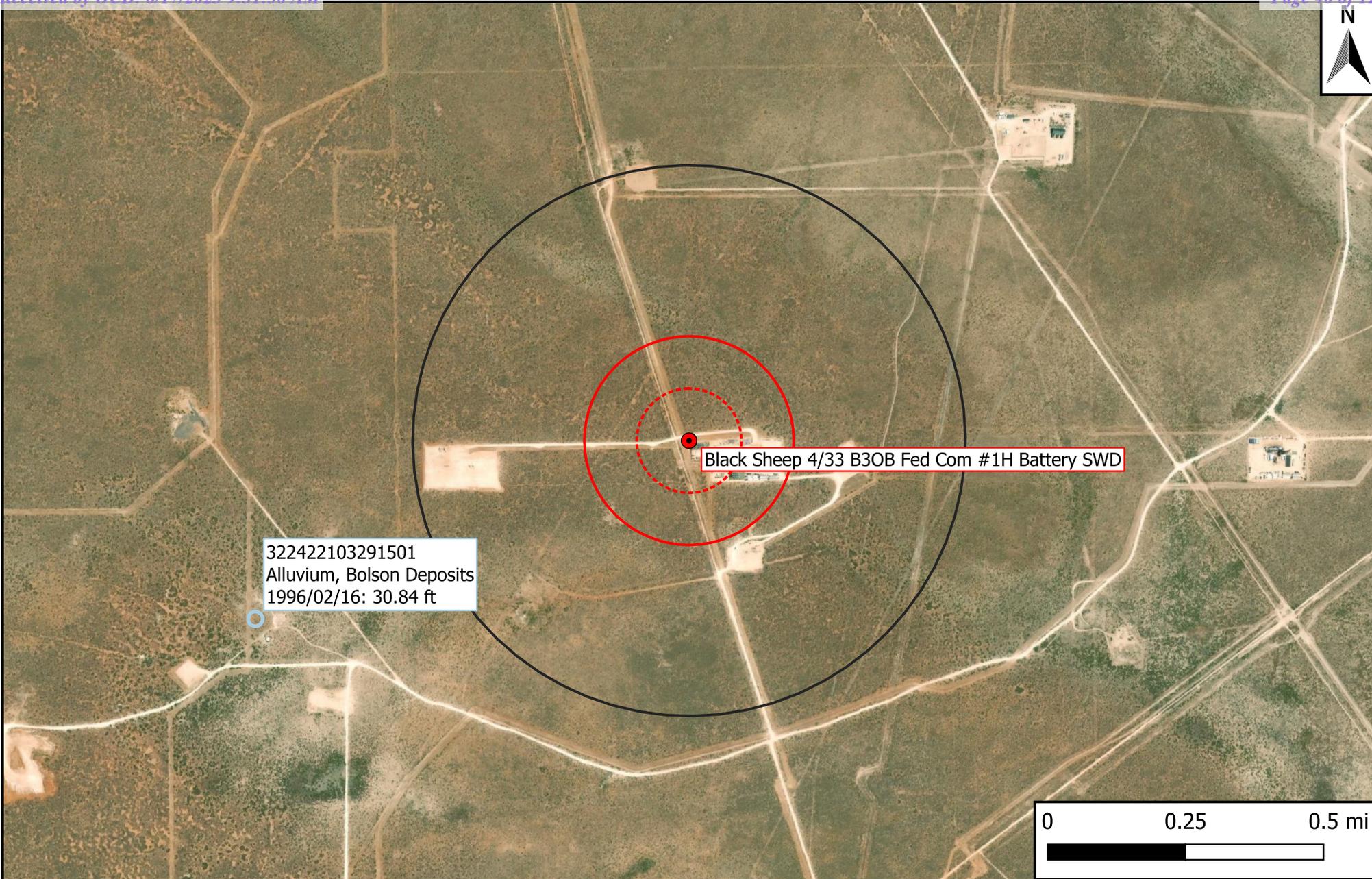
07/31/2021	2021	420517	A	WEB	4.138 X
08/31/2021	2021	478711	A	WEB	7.501 X
09/30/2021	2021	514619	A	WEB	4.628 X
10/31/2021	2021	564629	A	WEB	6.446 X
11/30/2021	2021	616373	A	WEB	6.669 X

**YTD Meter Amounts:	Year	Amount
	2019	3.140
	2020	19.373
	2021	56.931

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.

5/24/23 11:11 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 4-33 B3OB Fed Com #1H Battery SWD
 GPS: 32.4146402, -103.4744698
 Lea County



Drafted: bja

Checked: lc

Date: 7/12/23



National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

[+](#) 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

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Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
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.

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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: 5 26 23

Project: Black Sheep 4-33 B30B Fed Com 1H Battery

Project Number: 18223 Latitude: 32.414561 Longitude: -103.474203

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1@1	7.4	2080	
FL1@2	5.2	972	
FL1@3	3.6	500	
FL2@1	7.4	2080	
FL2@2	5.0	904	
FL2@3	3.4	456	
FL3@1	7.2	1944	
FL3@2	4.8	836	
FL3@3	3.0	372	
WW1	3.0	372	
EW1	3.4	456	
FL4@1	6.0	1296	
FL4@2	3.2	412	
FL5@1	6.0	1296	
FL5@2	3.6	500	
FL6@1	7.2	1944	
FL6@2	3.4	456	
FL7@1	7.0	1816	
FL7@2	3.0	372	
FL8@2	7.8	336	
WW2	3.0	372	
EW2	3.0	456	
NW1	3.2	412	
FL9@1	4.0	600	
FL9@2	3.0	372	
FL10@1	7.0	1816	
FL10@2	6.0	1296	
FL10@3	2.8	336	
FL11@1	4.6	772	
FL11@2	3.6	500	
FL12@1	4.7	656	
FL12@2	3.0	372	
FL13@1	4.8	836	
FL13@2	3.2	412	
EW3	2.8	336	
WW3	3.2	412	

S-T-2-V

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



Sample Log

Date: _____

Project: Black Sheep 4-33 B30B Fed Com 1H Battery

Project Number: 18223 Latitude: 32.414561 Longitude: -103.474203

Sample ID	PID/Odor	Chloride Conc.	GPS
SW1	2.8	336	
NW2	3.2	412	
SW2	2.8	336	
FL14@1	4.0	600	
FL14@2	3.6	500	
FL15@1	4.2	656	
FL15@2	3.4	456	
FL16@1	3.6	500	
FL16@2	3.0	372	
FL17@1	6.0	1296	
FL17@2	4.2	656	
FL17@3	2.4	268	
FL18@1	6.2	1388	
FL18@2	4.4	712	
FL18@3	3.4	456	
FL19@1	6.2	1388	
FL19@2	4.4	712	
FL19@3	3.0	372	
FL20@1	6.0	1296	
FL20@2	4.0	600	
FL20@3	3.4	456	
FL21@1	7.4	2080	
FL21@2	5.2	972	
FL21@3	2.8	336	
FL22@1	6.0	1296	
FL22@2	4.2	656	
FL22@3	3.6	500	
FL23@1	6.2	1296	
FL23@2	4.2	656	
FL23@3	3.4	456	
FL24@1	3.8	552	
WW4	3.2	412	
FL25@1	3.8	552	
SW3	3.4	456	
NW4	3.2	4108	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Date: _____

Project: Black Sheep 4-33 B30B Fed Com 1H Battery

Project Number: 18223 Latitude: 32.414561 Longitude: -103.474203

Depth (ft. bgs)

Description

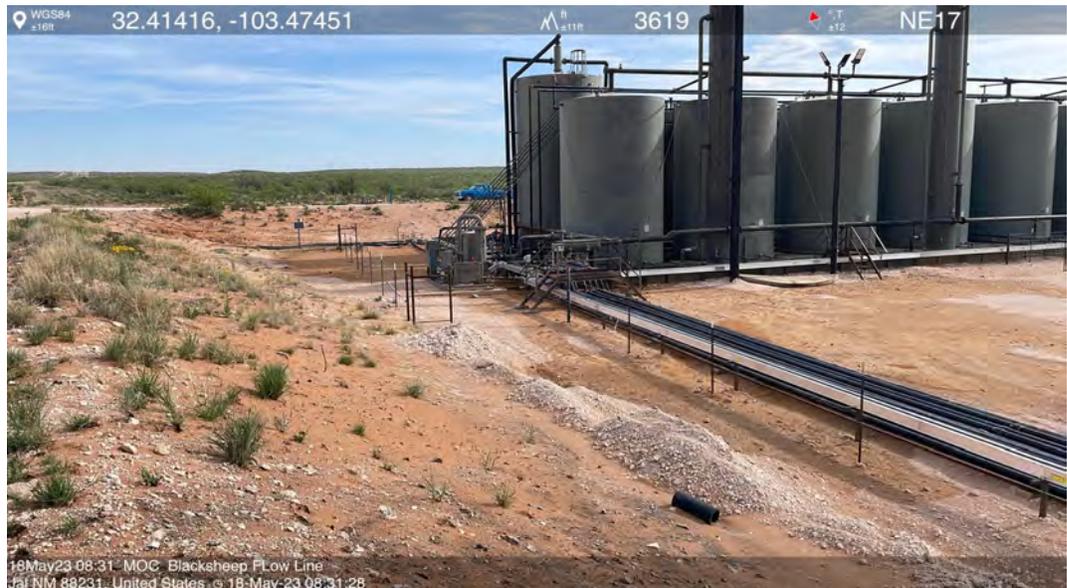
1	Caliche-sand
2	Caliche
3	Caliche
4	
5	
6	
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13	
14	
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Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: East	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: North-Northeast	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	
Photo Direction: West	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: South-Southeast	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	
Photo Direction: North	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 7	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: West	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	
Photo Direction: West-Northwest	
Photo Description: View of the excavated area.	

Photo Number: 10	
Photo Direction: West	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 11	 <p>6/27/23, 6:17 AM +32.414306,-103.473997 NM, Jal</p>
Photo Direction: West	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 12	 <p>6/27/23, 6:17 AM +32.414252,-103.474327 NM, Jal</p>
Photo Direction: Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 13	 <p>6/27/23, 6:18 AM +32.414355,-103.474371 NM, Jal</p>
Photo Direction: North	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	 <p>6/27/23, 6:18 AM +32.414355,-103.474371 NM, Jal</p>
Photo Direction: Southeast	
Photo Description: 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 02, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLACK SHEEP 4-33 B 306 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 14:45.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: EW 1 (H232740-01)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	640	16.0	05/31/2023	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: EW 2 (H232740-02)

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	05/31/2023	ND	2.19	109	2.00	8.52		
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54		
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63		
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82		
Total BTEX	<0.300	0.300	05/31/2023	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	192	16.0	05/31/2023	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	190	95.2	200	3.11		
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: EW 3 (H232740-03)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	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	05/31/2023	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: WW 1 (H232740-04)

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	05/31/2023	ND	2.19	109	2.00	8.52		
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54		
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63		
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82		
Total BTEX	<0.300	0.300	05/31/2023	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	05/31/2023	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	190	95.2	200	3.11		
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Analytical Results For:

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: WW 2 (H232740-05)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	05/31/2023	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: WW 3 (H232740-06)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	272	16.0	05/31/2023	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: NW 1 (H232740-07)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/31/2023	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	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: NW 2 (H232740-08)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/31/2023	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	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: SW 1 (H232740-09)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: SW 2 (H232740-10)

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	05/31/2023	ND	2.19	109	2.00	8.52		
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54		
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63		
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82		
Total BTEX	<0.300	0.300	05/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53		
DRO >C10-C28*	19.3	10.0	05/31/2023	ND	170	84.8	200	1.19		
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND						

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 1 @ 3 (H232740-11)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 2 @ 3 (H232740-12)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 3 @ 3 (H232740-13)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 HOBBS NM, 88240
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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 4 @ 2 (H232740-14)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 5 @ 2 (H232740-15)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 6 @ 2 (H232740-16)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 7 @ 2 (H232740-17)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 8 @ 2 (H232740-18)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 9 @ 2 (H232740-19)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 10 @ 3 (H232740-20)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 11 @ 2 (H232740-21)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 12 @ 2 (H232740-22)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	0.065	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 13 @ 2 (H232740-23)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 14 @ 2 (H232740-24)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 15 @ 2 (H232740-25)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 16 @ 2 (H232740-26)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/31/2023	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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene, 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.				BILL TO				ANALYSIS REQUEST					
Project Manager: <i>Lanc Crenshaw</i>				P.O. #:				Chloride TPH (8015M) BTEX (8021B)					
Address: P.O. Box 301				Company: <i>Mewbourn</i>									
City: Lovington		State: NM		Zip: 88260		Attn: <i>Jeff Broom</i>							
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: <i>1801 Bus p Blvd</i>									
Project #: <i>18223</i>		Project Owner: <i>Mewbourn</i>		City: <i>Hobbs</i>									
Project Name: <i>Black Sheep p 4-33 5303 Fed Com 1H</i>				State: <i>NM</i> Zip: <i>88240</i>									
Project Location: <i>Rural Lec</i>				Phone #:									
Sampler Name: <i>Death Canyon</i>				Fax #:									
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.		SAMPLING		DATE	TIME	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	
<i>H232140</i>						<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		
<i>21</i>	<i>FL 11 @ 2</i>	<i>C</i>	<i>1</i>								<i>5/30</i>		
<i>22</i>	<i>FL 12 @ 2</i>	<i>C</i>	<i>1</i>										
<i>23</i>	<i>FL 13 @ 2</i>	<i>C</i>	<i>1</i>										
<i>24</i>	<i>FL 14 @ 2</i>	<i>C</i>	<i>1</i>										
<i>25</i>	<i>FL 15 @ 2</i>	<i>C</i>	<i>1</i>										
<i>26</i>	<i>FL 16 @ 2</i>	<i>C</i>	<i>1</i>										
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Relinquished By: <i>T. Meyers</i>		Date: <i>5/30</i>	Received By: <i>Samara</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:				
Relinquished By:		Date:	Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:						
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		Please email results to pm@etechenv.com .							
Sampler - UPS - Bus - Other: <i>2.9c / 2.3c</i>		<i>#113</i>		<i>JO</i>									

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 07, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLACK SHEEP 4-33 B 306 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 06/02/23 16:49.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 17 @ 3 (H232819-01)

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	06/06/2023	ND	1.96	98.1	2.00	5.49		
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66		
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82		
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43		
Total BTEX	<0.300	0.300	06/06/2023	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	06/06/2023	ND	368	92.0	400	8.33		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	192	96.1	200	17.6		
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND						

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 18 @ 3 (H232819-02)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	48.0	16.0	06/06/2023	ND	368	92.0	400	8.33	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 19 @ 3 (H232819-03)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/06/2023	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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 20 @ 3 (H232819-04)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	400	16.0	06/06/2023	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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Analytical Results For:

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Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 21 @ 3 (H232819-05)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	112	16.0	06/06/2023	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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 22 @ 3 (H232819-06)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	240	16.0	06/06/2023	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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 23 @ 3 (H232819-07)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	272	16.0	06/06/2023	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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 24 @ 1 (H232819-08)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/06/2023	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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 25 @ 1 (H232819-09)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	176	16.0	06/06/2023	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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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 Fax To:

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 26 @ 3 (H232819-10)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	96.0	16.0	06/06/2023	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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 27 @ 3 (H232819-11)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	208	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 28 @ 1 (H232819-12)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	64.0	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 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:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 29 @ 1 (H232819-13)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 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:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 30 @ 3 (H232819-14)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	160	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	15.7	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 31 @ 2 (H232819-15)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 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:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: FL 32 @ 2 (H232819-16)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	160	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: NW 4 (H232819-17)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	160	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: NW 5 (H232819-18)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	80.0	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 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:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: EW 4 (H232819-19)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	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	272	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 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:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: SW 3 (H232819-20)

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	06/06/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/06/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/06/2023	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	272	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 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:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: WW 4 (H232819-21)

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	06/06/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/06/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/06/2023	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	240	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 306 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LEA		

Sample ID: WW 5 (H232819-22)

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	06/06/2023	ND	1.91	95.3	2.00	19.3	
Toluene*	<0.050	0.050	06/06/2023	ND	1.96	98.2	2.00	19.4	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	18.8	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.02	100	6.00	19.2	
Total BTEX	<0.300	0.300	06/06/2023	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	176	16.0	06/06/2023	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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 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.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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: P.O. Box 301		Company: Mewbourn											
City: Lovington State: NM Zip: 88260		Attn: Jeff Brown											
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address: 4801 Bus & Blvd											
Project #: 18223 Project Owner: Mewbourn		City: Hobbs											
Project Name: Blacksheep 4-333306 Fedcom 1H		State: NM Zip: 88240											
Project Location: Rural Lea		Phone #:											
Sampler Name: Dominil Casarez		Fax #:											
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.	SAMPLING	DATE	TIME
H232819										ACID/BASE:	ICE / COOL		
D-21	WWU	C	1			✓				✓		6-2	
22	WFS	C	1			✓				✓		6-2	
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Relinquished By: [Signature]		Date: 6/2	Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:		
Relinquished By:		Date:	Received By:		REMARKS:								
Delivered By: (Circle One)		Date: -19: X.O.U.		Sample Condition		CHECKED BY:		Please email results to pm@etechenv.com.					
Sampler - UPS - Bus - Other:		Date: -2-9-#113		Cool Intact		(Initials)							
				<input type="checkbox"/> Yes <input type="checkbox"/> No		[Signature]							

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 09, 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 06/05/23 15:05.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/05/2023	Sampling Date:	06/05/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	BLACK SHEEP 4-33 B 30 B FED COM 1H I	Sampling Condition:	Cool & Intact
Project Number:	18223	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EUNICE		

Sample ID: EWB (H232839-01)

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	06/06/2023	ND	416	104	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

Appendix E

Regulatory Correspondence

From: [Lance Crenshaw](#)
To: [Enviro, OCD, EMNRD](#)
Cc: [Ben Arquijo](#); [Connor Walker](#); jbroom@mewbourne.com; [Joel Lowry](#)
Subject: Confirmation Sampling Notification
Date: Monday, June 5, 2023 1:21:52 PM

This email serves as notice that Etech intends to collect excavation confirmation soil samples on June 8, 2023 from the following locations/reportable release sites:

Mewbourne Oil Co – Black Sheep 4/33 SWD Line- napp2315058592

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

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

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 253165

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 253165
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	12/4/2023