

Amended Remediation Summary and Deferral Request

The Eastland Oil Company Sarkey Tank Battery

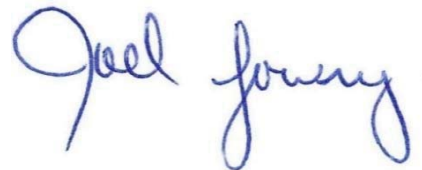
Lea County, New Mexico
Unit Letter N, Section 23, Township 21 South, Range 37 East
Latitude 32.45892 North, Longitude 103.13653 West
NMOCD Reference No. nAPP2207654154

Prepared By:

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Ben Arguijo



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Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of The Eastland Oil Company, has prepared this *Amended Remediation Summary and Deferral Request* for the release site known as the Sarkey Tank Battery (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.45892 Longitude: -103.13653

Provided GPS are in WGS84 format.

Site Name:	Sarkey Tank Battery	Site Type:	Tank Battery
Date Release Discovered:	10/28/2021	API # (if applicable):	

Unit Letter	Section	Township	Range	County
N	23	21S	37E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Jason & Lance Terry)

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) <u>Unknown</u>	Volume Recovered (bbls) <u>0</u>
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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:

The release was attributed to the failure of an above ground storage tank.

Initial Response

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

Previously submitted portions of the NMOCD Form C-141 are available on 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 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?	>51 Feet	
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
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1, 2, 4, and 5. Supplemental electronic C-141 documentation is provided as Appendix E.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standard for the Site are as follows:

Probable Depth to Groundwater	Constituent	Method	Closure Criteria	Reclamation Standard*
>51 Feet	Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg	-
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg	10 mg/kg

* The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

4.0 REMEDIATION ACTIVITIES SUMMARY

On January 28, 2022, Etech visited the Site in response to an NMOCD notice of impacted soil being present on-site. During the Site visit, twenty-five (25) soil samples (FL 1 - FL 21, EAST WALL, NORTH WALL, SOUTH WALL and WEST WALL) were collected from the floor and sidewalls on approximate 200 square foot increments of the recently excavated area in an effort to determine if soil affected above the NMOCD Closure Criteria remained in-situ. Laboratory analytical results indicated BTEX and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH and/or GRO+DRO concentrations exceeded the NMOCD Closure Criteria in soil samples FL 1 - FL 6, FL 9 - FL 11, FL 13, FL 14, FL 19 - FL 21, NORTH WALL, SOUTH WALL and WEST WALL.

In addition, Etech collected two (2) deferral characterization soil samples (DEF - HA -1 @ Surf. and DEF- HA - 1 @ 2') from the area adjacent to the active above ground storage tanks in an effort to characterize impacted soil that would require a major facility deconstruction to remove. Laboratory analytical results indicate BTEX and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH concentrations ranged from 7,530 mg/kg in soil sample DEF - HA -1 @ Surf. to 1,420 mg/kg in soil sample DEF- HA - 1 @ 2'.

On February 15, 2022, Etech utilized a hand auger to advance four (4) soil bores (V 1 - V 4) in an effort to determine the vertical extent of soil impacts. The hand-augered soil bores were advanced until field observations suggested TPH concentrations were below the NMOCD Closure Criteria. During the advancement of the soil bores, seven (7) soil samples (V1 @ 2', V1 @ 3', V2 @ 4', V2 @ 6', V3 @ 3', V4 @ 2' and V4 @ 3') were collected and submitted to the laboratory for TPH analysis. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria beyond 2 feet below ground surface (bgs) in the area characterized by sample point V1, 6 feet bgs in the area characterized by sample point V2, 3 feet bgs in the area characterized by sample points V3 and DEF HA-1 and 3 feet bgs in the area characterized by sample point V4.

On April 8, 2022, remediation activities resumed at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria in the areas characterized by soil samples FL 1 - FL 6, FL 9 - FL 11, FL 13, FL 14, FL 19 - FL 21, NORTH WALL, SOUTH WALL and WEST WALL was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria.

On April 12, 2022, Etech collected ten (10) confirmation soil samples (FS 1 @ 3 FT, FS 2 @ 3 FT, FS 3 @ 3 FT, FS 4 @ 3 FT, FS 5 @ 3 FT, FS 6 @ 2 FT, FS 9 @ 3 FT, FS 10 @ 3 FT, FS 11 @ 3 FT, and FS 13 @ 3 FT) from the floor of the excavated area. The collected soil samples were submitted to a certified commercial laboratory for analysis of TPH concentrations which were determined to be below the NMOCD Closure Criteria in each of the submitted soil samples.

On April 13, 2022, Etech collected nine (9) confirmation soil samples (FL 14 B @ 5', FL 19 B @ 2', FL 20 B @ 2', FL 21 B @ 2', NW 1 B, NW 2 B, SW 1 B, SW 2, and WW 1 B) from the floor and sidewalls of the excavated area. The collected soil samples were submitted to a certified commercial laboratory for analysis of TPH concentrations which were determined to be below the NMOCD Closure Criteria in each of the submitted soil samples.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and soil profile logs, if applicable, are provided as Appendix B. Laboratory analytical reports are provided as Appendix C.

The final dimensions of the excavated area were approximately 130 feet in length, and ranged from 25 to 40 feet in width and one (1) to five (5) feet in depth. During the course of remediation activities, approximately 420 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 NMOCD REJECTION

On May 5, 2022, Eastland submitted a *Remediation Summary and Deferral Request* to the NMOCD detailing remediation activities conducted to date (along with laboratory analytical results from confirmation and deferral characterization soil samples) and requesting NMOCD permission to defer impacts present adjacent to the on-site surface equipment until time of abandonment. The *Remediation Summary and Deferral Request* was subsequently rejected by the NMOCD due to conflicting depth to groundwater information between what was included in the report and that which was available in the NMOCD's internal GIS system. Further review indicated the presence of one or more unregistered groundwater monitoring wells approximately 0.32 Mi east of the Site within Monument Draw suggesting groundwater was less than 50 ft. bgs.

In addition, the original NMOCD Field Inspector mentioned soil staining north of the tank battery facility that was not identified during the original remediation that was need of further investigation and/or remediation.

6.0 ADDITIONAL REMEDIATION ACTIVITIES

On July 5 and 7, 2022, Etech revisited the Site. During the site visit, a hand-auger was utilized to collect two (2) soil samples (V-2B @ 7.5' and EH) in an effort to further investigate the horizontal and vertical extent of soil impacts. The collected soil samples were submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from 538 mg/kg in soil sample V-2B @ 7.5' to 59.1 mg/kg in soil sample EH. In addition, Etech advanced two (2) investigative trenches (PSP #1 and PSP #2) within the pasture area north of the tank battery facility. During the advancement of the investigative trenches, five (5) soil samples (PSP #1 @ 1', PSP #1 @ 2', PSP #2 @ 1', PSP #2 @ 2' and PSP #2 @ 3') were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride concentrations. Laboratory analytical results indicated BTEX concentrations were below the laboratory MDL in each of the submitted soil samples. TPH concentrations ranged from 6,800 mg/kg in soil sample PSP #2 @ 1' to 497 mg/kg in soil sample PSP #1 @ 1'. Chloride concentrations ranged from less than the laboratory MDL in soil sample PSP #1 @ 2' to 96.0 mg/kg in soil sample PSP #2 @ 1'.

Laboratory analytical results indicated soil impacts within the tank battery facility had been fully delineated and that additional remediation would be required on the north side of the tank battery facility.

On May 8, 2023, Etech oversaw the advancement of an investigative soil bore at the location. The investigative soil bore was advanced to 51.5 ft. bgs and allowed to sit open for a minimum of 72 hours in an effort to determine if shallow groundwater was present at the Site. Upon waiting the necessary 72 hours, the investigative soil bore was gauged and determined to have been dry. A copy of the soil boring log is provided in Appendix A.

August 16, 2023, Etech resumed remediation activities at the Site. Impacted soil affected above the NMOCD Closure Criteria and/or Reclamation Standard within the affected pasture, in the areas characterized by test trenches PSP #1 and PSP #2 was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavated area were advanced field observations and test results suggested BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or Reclamation Standard.

Upon excavating impacted soil within the affected pasture, Etech collected eight (8) excavation confirmation soil samples (SW #1, EW #1, NW #1, WW #1, FL #1 @ 4FT, FL #2 @ 4FT, FL #3 @ 4FT and FL #4 @ 4FT) from the floor and sidewalls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were below the laboratory MDL in each of the submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil samples SW #1 to 10,100 mg/kg in soil sample FL #4 @ 4FT. Chloride concentrations ranged from less than the laboratory MDL in soil samples SW #1 and NW #1 to 96.0 mg/kg in soil sample FL #1 @ 4FT. BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or Reclamation Standard in each of the submitted soil samples, with the exception of soil samples EW #1 (109 mg/kg TPH), WW #1 (628 mg/kg TPH), FL #2 @ 4FT (7,970 mg/kg TPH) and FL #4 @ 4FT (10,100 mg/kg TPH). Based on laboratory analytical results, additional excavation was required in the areas characterized by soil samples EW #1, WW #1, FL #2 @ 4FT and FL #4 @ 4FT.

On August 18, 2023, upon advancing the floor and sidewalls of the excavation in the areas characterized by soil samples EW #1, WW #1, FL #2 @ 4FT and FL #4 @ 4FT, Etech collected four (4) excavation confirmation soil samples (EW 1B, WW 1 B, FL #2 @ 13Ft and FL #4 @ 13FT) from the recently excavated areas. The collected soil samples were submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMOCD Closure Criteria and/or Reclamation Standard in each of the submitted soil samples.

The final dimensions of the excavated area within the tank battery facility were approximately 130 feet in length, 25 to 40 feet in width and 1 to 5 feet in depth. The final dimensions of the excavated area within the affected pasture were approximately 50 feet in length, 10 to 30 feet in width and 4 to 13 feet in depth. During the course of remediation activities, Etech transported approximately 816 cubic yards of impacted soil to an NMOCD-approved surface waste facility for disposal.

7.0 RESTORATION, RECLAMATION, AND 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 free of noxious weeds during the first favorable growing season following closure of the site. Final reclamation will be conducted in accordance with 19.15.29.13 NMAC.

8.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated to the maximum extent practicable given the presence of active surface equipment. Excavated material was transported to an NMOCD-approved disposal facility. Laboratory analytical results from excavation confirmation soil samples indicate concentrations of BTEX and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Laboratory analytical results from deferral characterization soil samples indicates hydrocarbon impacted soil remaining in-situ affected above the NMOCD Closure Criteria has been characterized and fully delineated.

Based on laboratory analytical results and field activities conducted to date, Etech recommends The Eastland Oil Company provide copies of this *Amended Remediation Summary and Deferral Request* to the appropriate agencies and request permission to defer remediation of impacted areas affected above the NMOCD Closure Criteria remaining in-situ at the Sarkey Tank Battery Site until decommissioning and/or at time of abandonment.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Amended Remediation Summary and Deferral 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 The Eastland Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or The Eastland Oil Company.

10.0 DISTRIBUTION

The Eastland Oil Company

415 West Wall St.

Suite 1415

Midland, TX 79702

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

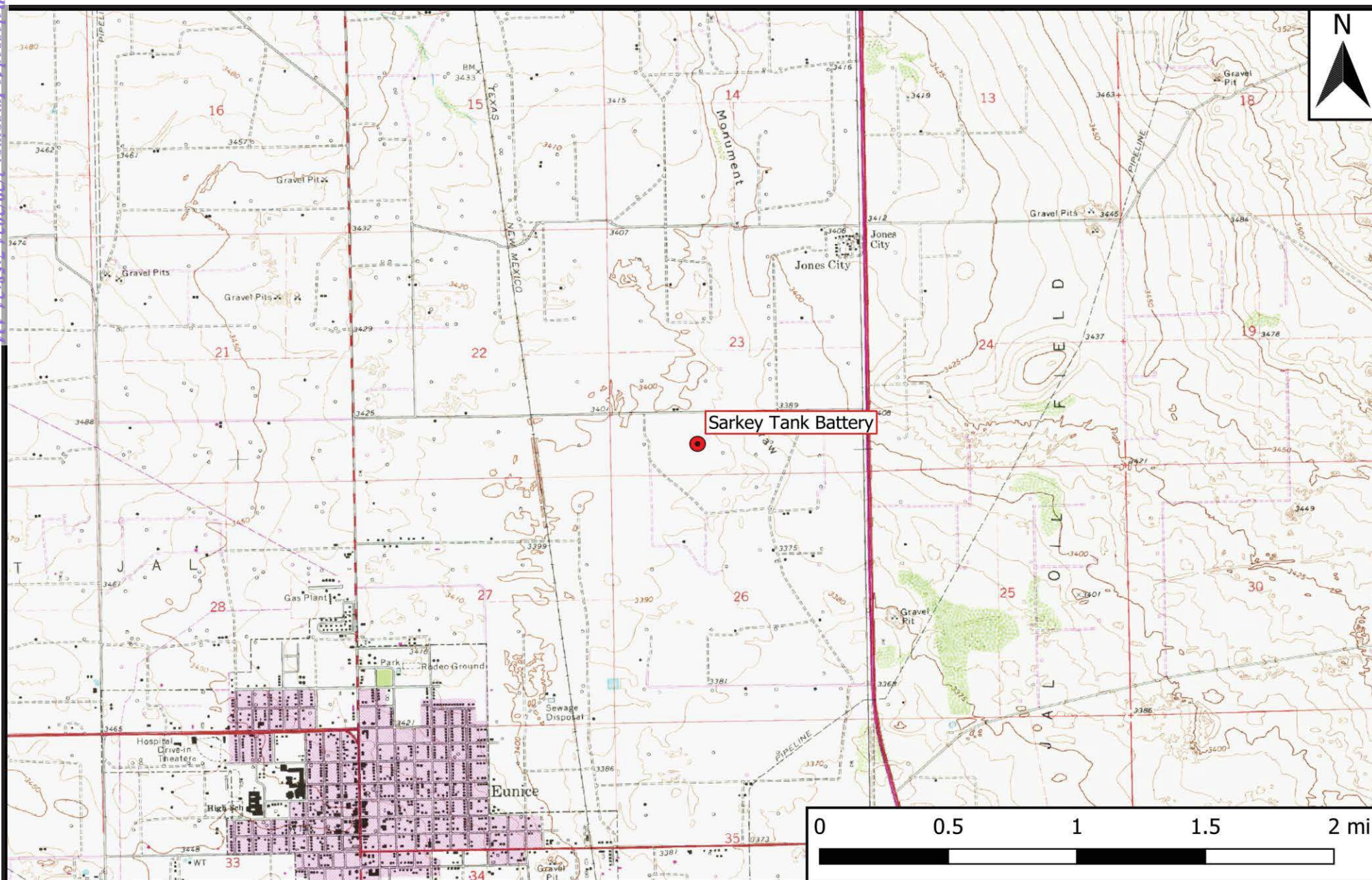
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1
Topographic Map
The Eastland Oil Company
Sarkey Tank Battery
GPS: 32.45892, -103.13653
Lea County

ETECH
Environmental & Safety Solutions, Inc.

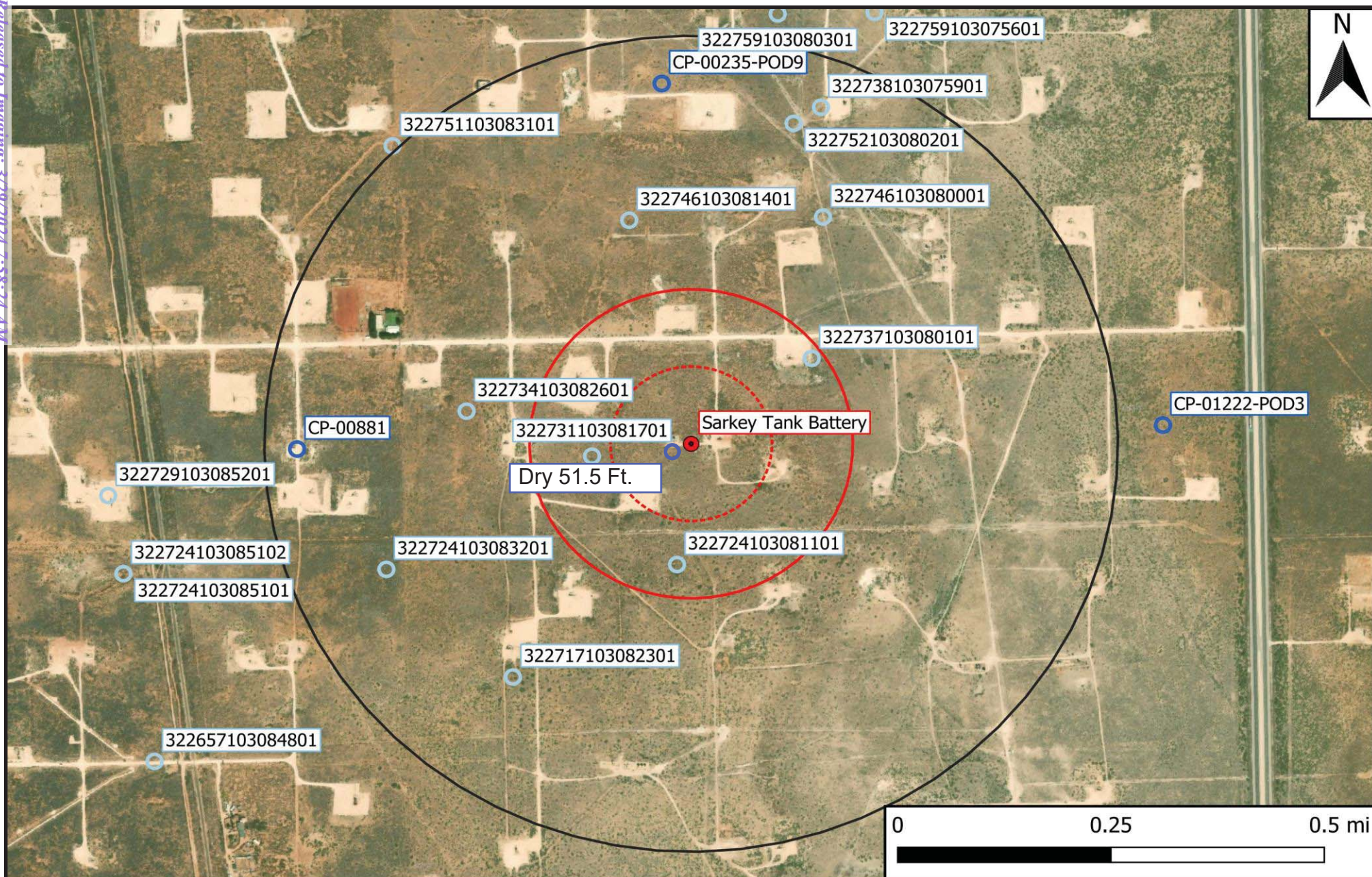
Drafted: mag

Checked: jwl

Date: 1/28/22

Figure 2

Aerial Proximity Map

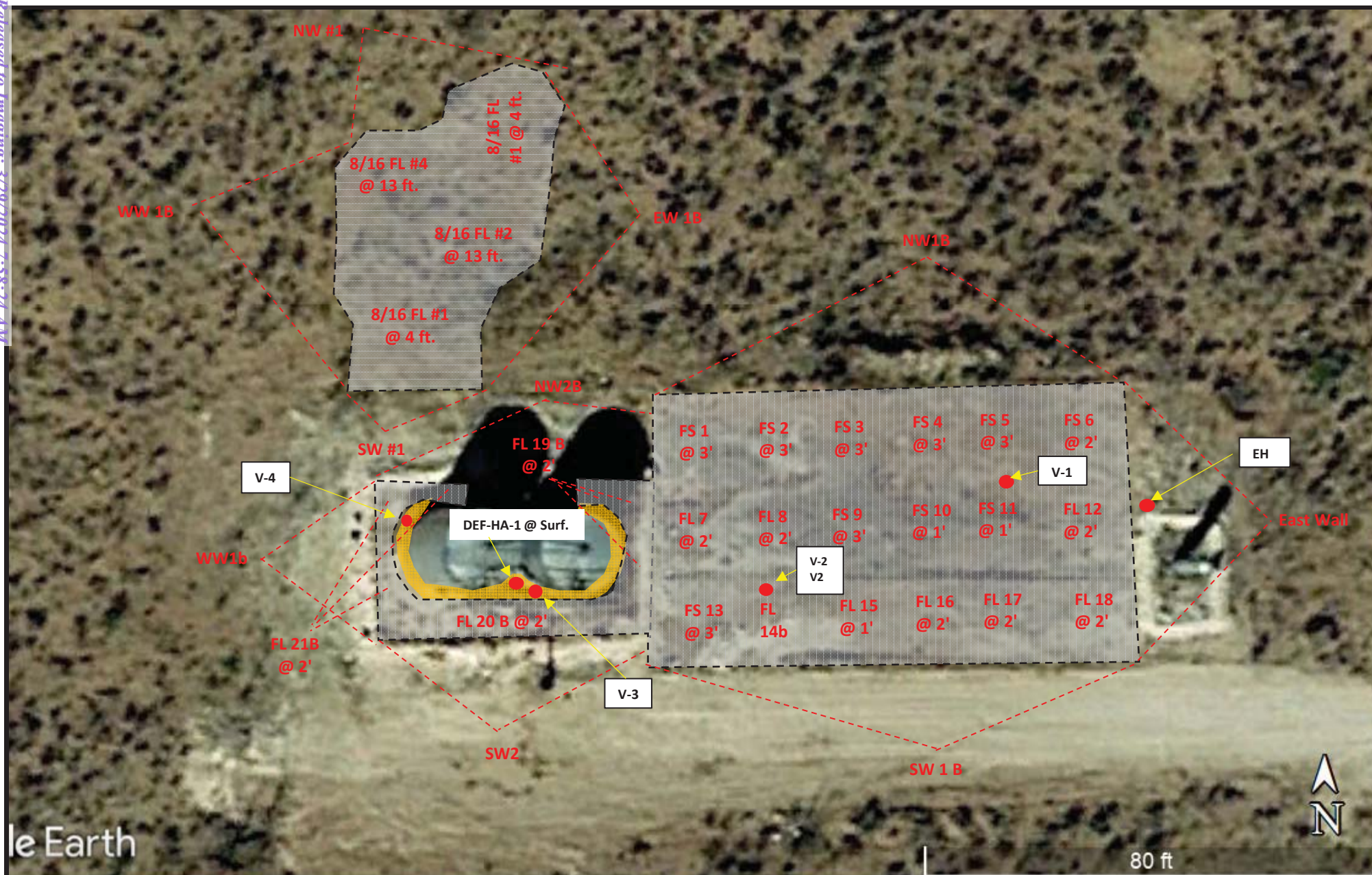


Legend	
●	Site Location
○	Well - NMOSE
○	Well - USGS
—	Potash Mine Workings
■	Medium/High Karst
- - -	500 Ft Radius
—	1000 Ft Radius
—	0.5 Mi Radius
■	1% Annual Flood Chance
■	Lake/Freshwater Pond
■	Emergent/Forested Wetlands
■	Riverine

Figure 2
Aerial Proximity Map
The Eastland Oil Company
Sarkey Tank Battery
GPS: 32.45892, -103.13653
Lea County

Figure 3

Site and Sample Location Map



le Earth

80 ft



ETECH
Environmental & Safety Solutions, Inc.

Drafted: kap

Checked: jwl

Date: 8/29/23

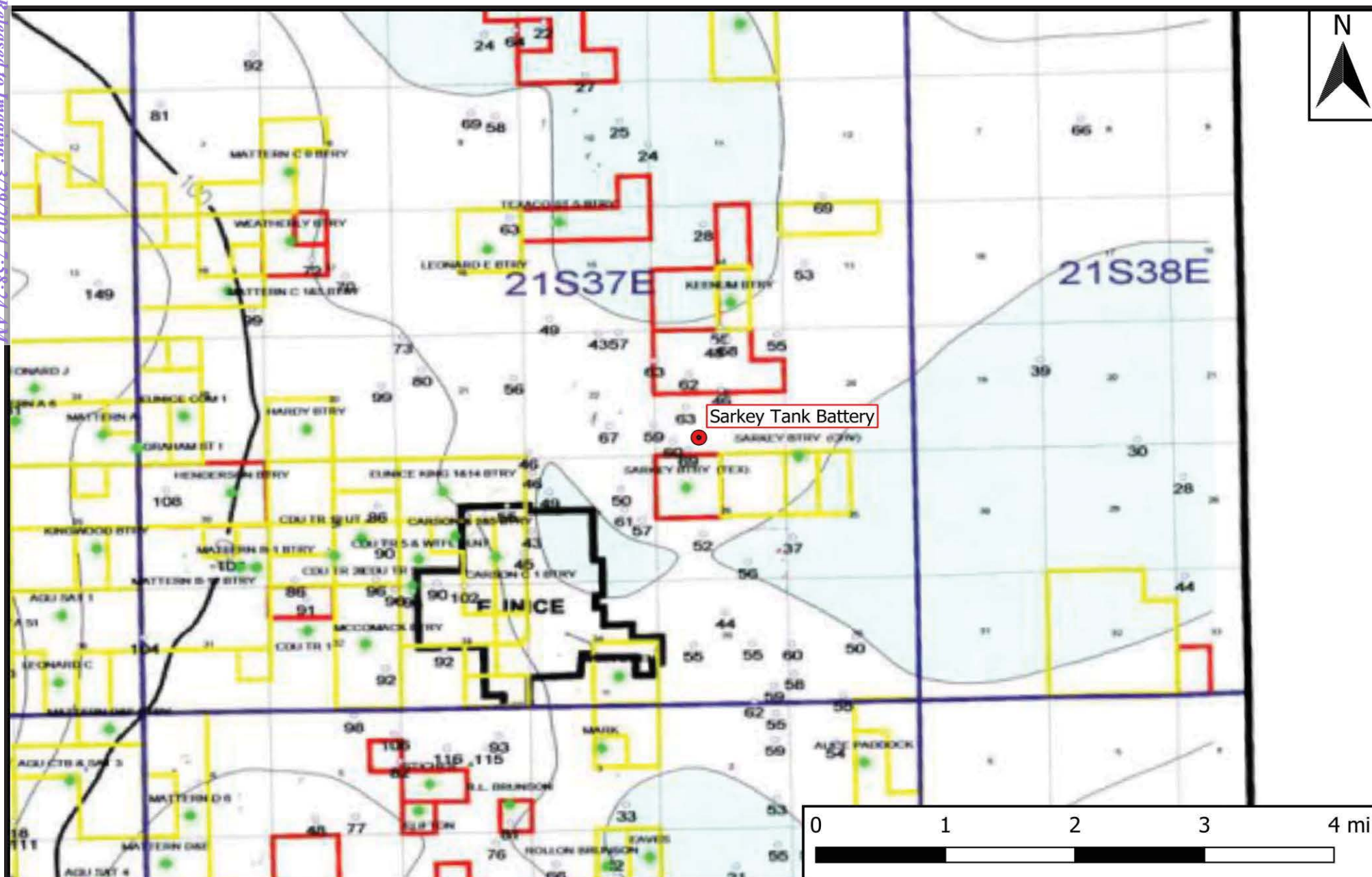
Table 1
Concentrations of BTEX, TPH, and Chloride in Soil

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil The Eastland Oil Company Sarkey Tank Battery NMOCD Ref. #: nAPP2207654154											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	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 C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	GRO + DRO C6-C28 (mg/kg)	ORO C28-C36 (mg/kg)	TPH C6-C36 (mg/kg)	Chloride (mg/kg)
Excavation Confirmation Soil Samples (Battery)											
FL 1	1/28/2022	1	Excavated	<0.050	<0.300	<10.0	3,430	3,430	407	3,840	64.0
FL - 1 @ 2'	1/7/2022	2	Excavated	<0.050	<0.300	<10.0	28.7	28.7	<10.0	28.7	16.0
FS 1 @ 3 FT	4/12/2022	3	In-Situ	-	-	<10.0	304	304	77.3	381	-
FL 2	1/28/2022	1	Excavated	<0.050	<0.300	<10.0	3,540	3,540	312	3,850	32.0
FS 2 @ 3 FT	4/12/2022	3	In-Situ	-	-	<10.0	84.3	84.3	25.7	110	-
FL 3	1/28/2022	1	Excavated	<0.050	<0.300	13.2	7,830	7,840	1,410	9,250	48.0
FS 3 @ 3 FT	4/12/2022	3	In-Situ	-	-	<10.0	912	912	275	1,190	-
FL 4	1/28/2022	1	Excavated	<0.050	<0.300	<10.0	3,290	3,290	185	3,480	80.0
FS 4 @ 3 FT	4/12/2022	3	In-Situ	-	-	<10.0	45.3	45.3	<10.0	45.3	-
FL 5	1/28/2022	1	Excavated	<0.050	<0.300	<10.0	2,650	2,650	255	2,910	160
FS 5 @ 3 FT	4/12/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 6	1/28/2022	1	Excavated	<0.050	<0.300	<10.0	7,190	7,190	607	7,800	320
FS 6 @ 2 FT	4/12/2022	3	In-Situ	-	-	<10.0	241	241	95.8	337	-
FL 7	1/28/2022	2	In-Situ	<0.050	<0.300	<10.0	920	920	188	1,110	144
FL 8	1/28/2022	2	In-Situ	<0.050	<0.300	<10.0	829	829	139	968	64.0
FL 9	1/28/2022	1	Excavated	<0.050	<0.300	<10.0	4,970	4,970	546	5,520	128
FS 9 @ 3 FT	4/12/2022	3	In-Situ	-	-	<10.0	541	541	178	719	-
FL 10	1/28/2022	1	Excavated	<0.050	0.331	32.2	5,450	5,480	596	6,080	144
FS 10 @ 3 FT	4/12/2022	3	In-Situ	-	-	<10.0	25.0	25.0	<10.0	25.0	-
FL 11	1/28/2022	1	Excavated	<0.050	<0.300	<10.0	2,020	2,020	187	2,210	32.0
FS 11 @ 3 FT	4/12/2022	3	In-Situ	-	-	<10.0	146	146	29.3	175	-
FL 12	1/28/2022	2	In-Situ	<0.050	<0.300	<10.0	1,000	1,000	162	1,160	80.0
FL 13	1/28/2022	2	Excavated	<0.050	<0.300	<10.0	3,710	3,710	556	4,270	64.0
FS 13 @ 3 FT	4/12/2022	3	In-Situ	-	-	<10.0	182	182	75.2	257	-
FL 14	1/28/2022	2	Excavated	<0.050	<0.300	<10.0	1,470	1,470	236	1,710	32.0
FL 14 B @ 5'	4/13/2022	5	In-Situ	-	-	<10.0	420	420	190	610	-
FL 15	1/28/2022	1	In-Situ	<0.050	<0.300	<10.0	523	523	135	658	32.0
FL 16	1/28/2022	2	In-Situ	<0.050	<0.300	<10.0	223	223	14.9	238	16.0
FL 17	1/28/2022	2	In-Situ	<0.050	<0.300	<10.0	264	264	20.5	285	32.0
FL 18	1/28/2022	2	In-Situ	<0.050	<0.300	<10.0	231	231	166	397	<16.0
FL 19	1/28/2022	1	Excavated	<0.050	<0.300	<10.0	7,400	7,400	2,080	9,480	320
FL 19 B @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 20	1/28/2022	1	Excavated	<0.050	<0.300	<100	14,100	14,100	5,260	19,400	64.0
FL 20 B @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 21	1/28/2022	1	Excavated	<0.050	<0.300	<10.0	9,320	9,320	2,210	11,500	320
FL 21 B @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
EAST WALL	1/28/2022	0-2	In-Situ	<0.050	<0.300	<10.0	621	621	152	773	32.0
NORTH WALL	1/28/2022	0-2	Excavated	<0.050	<0.300	<10.0	3,780	3,780	628	4,410	192
NW 1 B	4/13/2022	0-3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
NW 2 B	4/13/2022	0-2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
SOUTH WALL	1/28/2022	0-2	Excavated	<0.050	<0.300	<10.0	2,780	2,780	416	3,200	48.0
SW 1 B	4/13/2022	0-5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil The Eastland Oil Company Sarkey Tank Battery NMOCD Ref. #: nAPP2207654154											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	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 C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	GRO + DRO C6-C28 (mg/kg)	ORO C28-C36 (mg/kg)	TPH C6-C36 (mg/kg)	Chloride (mg/kg)
SW 2	4/13/2022	0-2	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<30.0	-
WEST WALL	1/28/2022	0-2	Excavated	<0.050	<0.300	<10.0	3,470	3,470	443	3,910	240
WW 1 B	4/13/2022	0-2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
Excavation Confirmation Soil Samples (Pasture Area)											
SW #1	8/16/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW #1	8/16/2023	0-4	Excavated	<0.050	<0.300	<10.0	79.5	79.5	29.1	109	16.0
EW 1 B	8/18/2023	0-4	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
NW #1	8/16/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW #1	8/16/2023	0-4	Excavated	<0.050	<0.300	<10.0	435	435	193	628	64.0
WW 1 B	8/18/2023	0-4	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<30.0	-
FL #1 @ 4FT	8/16/2023	4	In-Situ	<0.050	<0.300	<10.0	25.8	25.8	<10.0	25.8	96.0
FL #2 @ 4FT	8/16/2023	4	Excavated	<0.050	0.668	94.4	6,450	6,540	1,430	7,970	16.0
FL #2 @ 13 FT	8/18/2023	13	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<30.0	-
FL #3 @ 4FT	8/16/2023	4	In-Situ	<0.050	<0.300	<10.0	865	865	344	1,210	16.0
FL #4 @ 4FT	8/16/2023	4	Excavated	<0.050	4.90	295	8,140	8,440	1,630	10,100	16.0
FL #4 @ 13 FT	8/18/2023	13	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<30.0	-
Deferral Characterization and Delineation Soil Samples											
DEF - HA - 1 @ Surf	1/28/2022	0	Deferral	<0.050	<0.300	<50.0	5,930	5,930	1,600	7,530	112
DEF - HA - 1 @ 2'	1/28/2022	2	Deferral	<0.050	<0.300	<10.0	1,140	1,140	284	1,420	320
V 1 @ 2'	2/15/2022	2	In-Situ	-	-	<10.0	73.4	73.4	19.7	93.1	-
V 1 @ 3'	2/15/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
V 2 @ 4'	2/15/2022	4	Excavated	-	-	<10.0	1,530	1,530	514	2,040	-
V 2 @ 6'	2/15/2022	6	In-Situ	-	-	<10.0	897	897	354	1,250	-
V 3 @ 3'	2/15/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
V 4 @ 2'	2/15/2022	2	Excavated	-	-	<10.0	1,980	1,980	731	2,710	-
V 4 @ 3'	2/15/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
V - 2B @ 7.5'	7/5/2022	7.5	In-Situ	-	-	<10.0	391	391	147	538	-
EH	7/5/2022	0.5	In-Situ	-	-	<10.0	35.2	35.2	23.9	59.1	-
PSP #1 @ 1'	7/7/2022	1	Excavated	<0.050	<0.300	<10.0	330	330	167	497	32.0
PSP #1 @ 2'	7/7/2022	2	Excavated	<0.050	<0.300	<10.0	351	351	176	527	<16.0
PSP #2 @ 1'	7/7/2022	1	Excavated	<0.050	<0.300	<10.0	5,600	5,600	1,200	6,800	96.0
PSP #2 @ 2'	7/7/2022	2	Excavated	<0.050	<0.300	<10.0	2,200	2,200	817	3,020	64.0
PSP #2 @ 3'	7/7/2022	3	Excavated	-	-	<10.0	764	764	289	1,050	48.0

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 The Eastland Oil Company
 Sarkey Tank Battery
 GPS: 32.45892, -103.13653
 Lea County

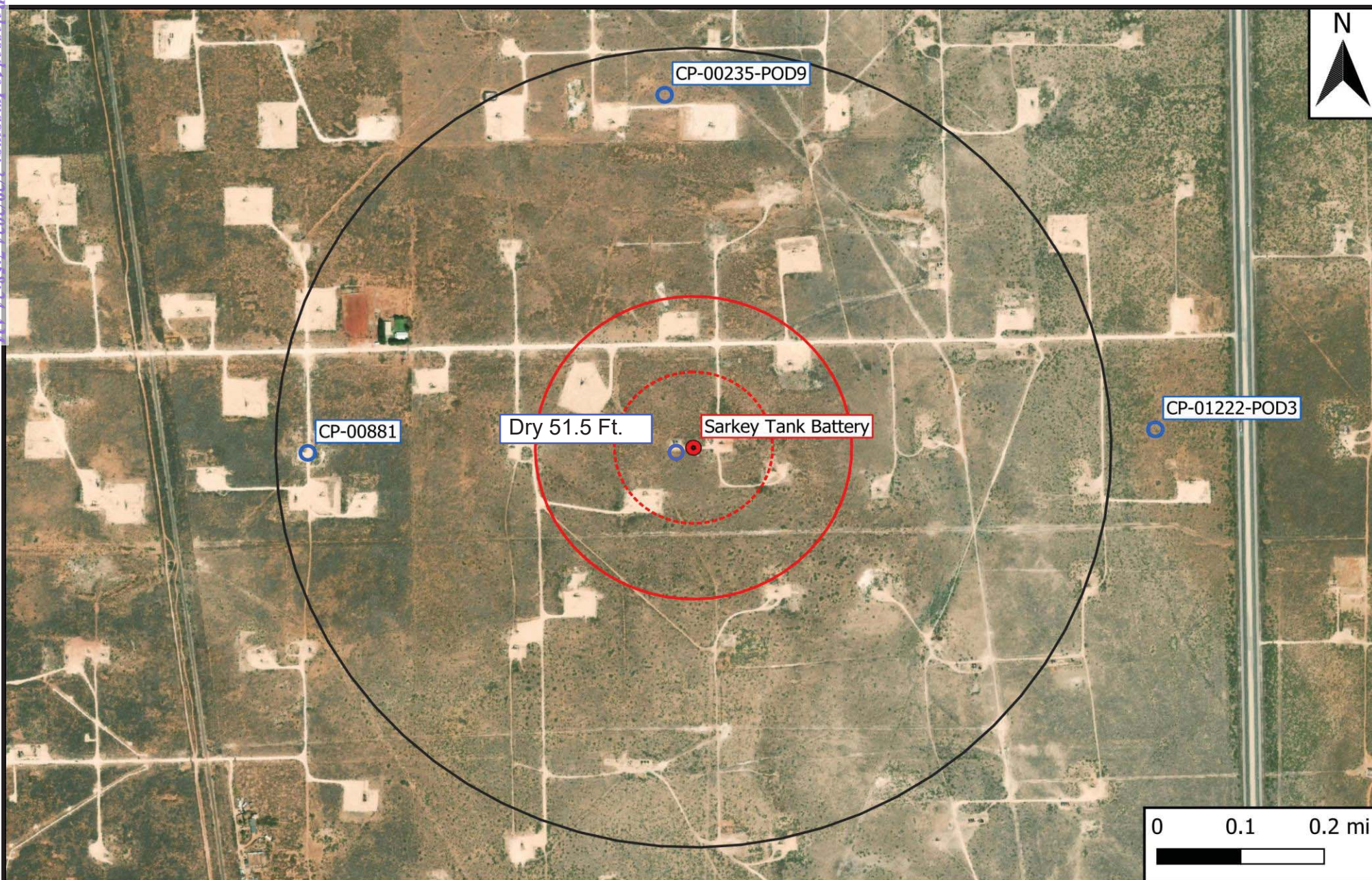


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Checked: jwl

Date:

1/28/22



Legend

- Site Location
- Well - NMOSE
- 500 Ft Radius
- 1000 Ft Radius
- 0.5 Mi Radius

Figure 5A

NMOSE Well Proximity Map
 The Eastland Oil Company
 Sarkey Tank Battery
 GPS: 32.45892, -103.13653
 Lea County



Drafted: mag

Checked: jwl

Date:

4/28/22



New Mexico Office of the State Engineer

(In feet)

Average Depth to Water:	63 feet
Minimum Depth:	53 feet
Maximum Depth:	78 feet

UTMNAD83 Radius Search (in meters):

Easting (X): 675145.55

Northing (Y): 3592834.3

Radius: 804.67

*UTM location was derived from PLSS - see Help

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


1/28/22 8:25 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00235 POD9	3	4	1	23	21S	37E	675090	3593542* 
x									
Driller License:	46	Driller Company:		ABBOTT BROTHERS COMPANY					
Driller Name:	ABBOTT, FLOYD								
Drill Start Date:	09/28/1973	Drill Finish Date:		09/29/1973		Plug Date:			
Log File Date:	12/05/1973	PCW Rev Date:		12/11/1973		Source:		Shallow	
Pump Type:	SUBMER	Pipe Discharge Size:		Estimated Yield:					
Casing Size:	8.63	Depth Well:		94 feet		Depth Water:		58 feet	
x									
Casing Perforations:				Top	Bottom				
				69	94				
x									


*UTM location was derived from PLSS - see Help

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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	Tw	Rng	X	Y		
	CP 00252 POD1	4	2	4	22	21S	37E	674493	3593125*		
Driller License:		Driller Company:									
Driller Name:											
Drill Start Date:		Drill Finish Date:				03/17/1949		Plug Date:			
Log File Date:		PCW Rcv Date:						Source:			
Pump Type:		Pipe Discharge Size:						Estimated Yield: 100 GPM			
Casing Size:		Depth Well:				106 feet		Depth Water:		78 feet	


*UTM location was derived from PLSS - see Help

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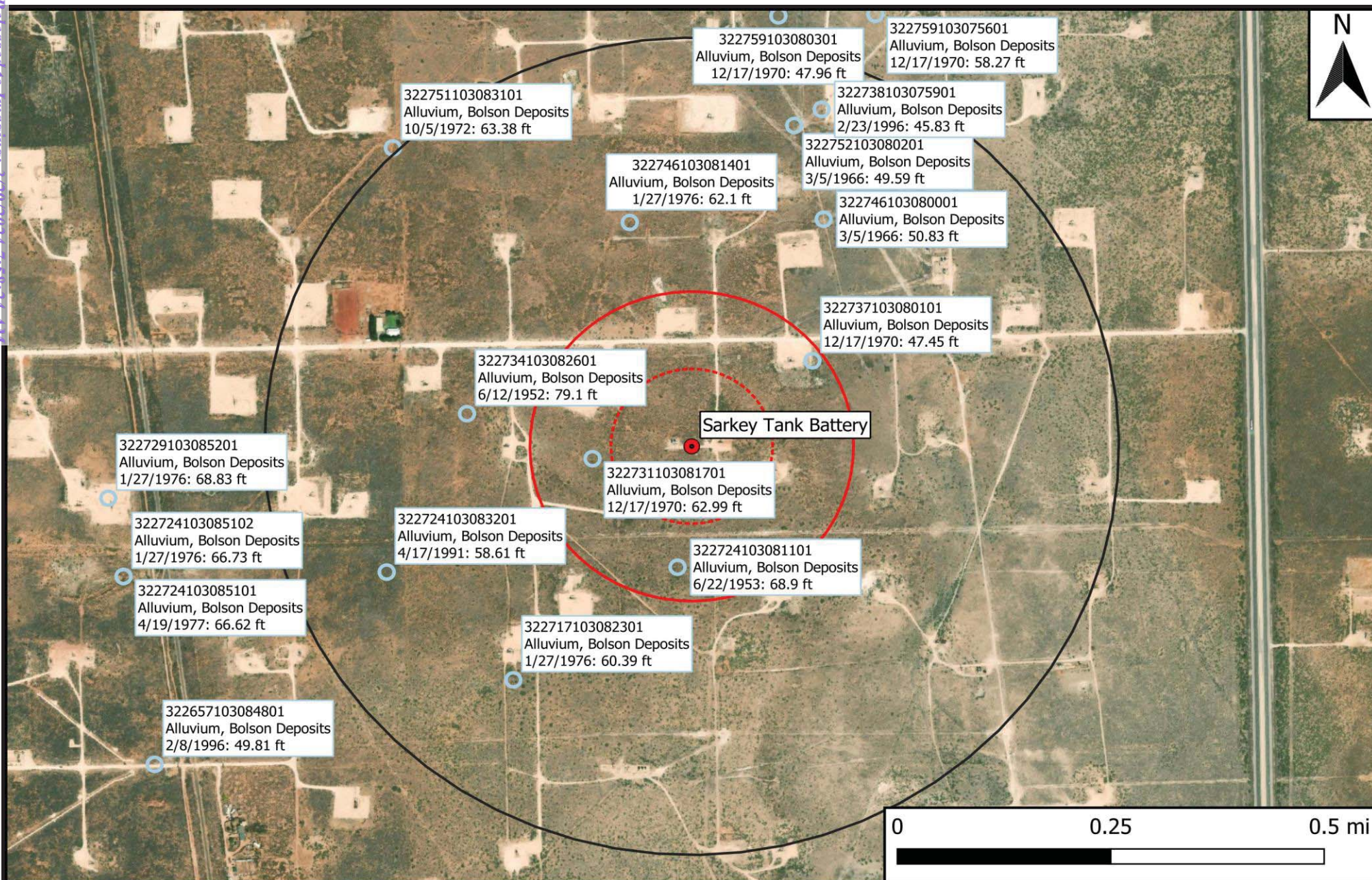
New Mexico Office of the State Engineer

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	Tw	Rng	X	Y		
	CP 00881	4	4	22	21S	37E		674402	3592824*		
x											
Driller License:		571		Driller Company:		"GLASSPOOLE, GEORGE ""BILL"" W.E "					
Driller Name:		GLASSPOOLE, GEORGE W.									
Drill Start Date:		09/04/1999		Drill Finish Date:		09/07/1999		Plug Date:			
Log File Date:		09/10/1999		PCW Rcv Date:				Source:		Shallow	
Pump Type:				Pipe Discharge Size:				Estimated Yield:		80 GPM	
Casing Size:		5.50		Depth Well:		95 feet		Depth Water:		53 feet	
x											
Water Bearing Stratifications:				Top	Bottom	Description					
				53	95	Sandstone/Gravel/Conglomerate					
x											
Casing Perforations:				Top	Bottom						
				75	95						
x											

*UTM location was derived from PLSS - see Help

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Legend

- Site Location
- Well - USGS
- ⋯ 500 Ft Radius
- ▭ 1000 Ft Radius
- ▭ 0.5 Mi Radius

Figure 5B

USGS Well Proximity Map
The Eastland Oil Company
Sarkey Tank Battery
GPS: 32.45892, -103.13653
Lea County

ETECH

Environmental & Safety Solutions, Inc.




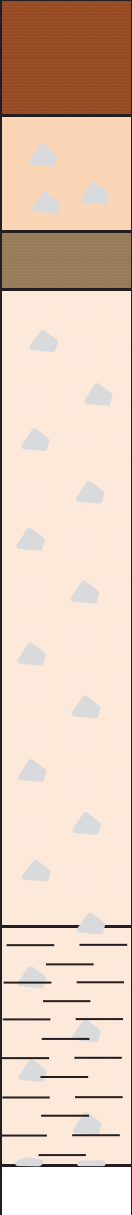

Drafted: mag

Checked: jwl

Date:

4/28/22

Logger:	Joel Lowry				
Driller:	Scarborough Drilling				
Consultant:	Etech Environmental				
Drilling Method:	Air Rotary				
Start Date:	May 8, 2023				
End Date:	May 8, 2023			Project Name:	Well ID:
Comments: Drilled temp well per NMOCD to check for shallow groundwater, dry after 72 hrs Drafted by: Joel Lowry				Sarkey Tank Battery	NA
				Location:	
				Lat: 32.4589 Long: -103.13688	County: Lea State: NM

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
	-	-	-	Reddish Brown Sand/Topsoil		
5	-	-	-	Reddish Brown Sand/Topsoil		
	-	-	-	Pinkish/Gray Caliche		
10	-	-	-	Pinkish/Gray Caliche		
	-	-	-	Light Brown Sand with Clay		
15	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray Sandy Caliche		
20	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray Sandy Caliche		
25	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray Sandy Caliche		
30	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray Sandy Caliche		
35	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray Sandy Caliche		
40	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray sandstone w/ Gravel & Clay		
45	-	-	-	White/Gray sandstone w/ Gravel & Clay		
	-	-	-	White/Gray sandstone w/ Gravel & Clay		
50	-	-	-	White/Gray sandstone w/ Gravel & Clay		
	-	-	-	TD 51.5 Ft.		
55	-	-	-			



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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°27'17", Longitude 103°08'23" NAD27

Land-surface elevation 3,394 feet above NAVD88

The depth of the well is 96 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

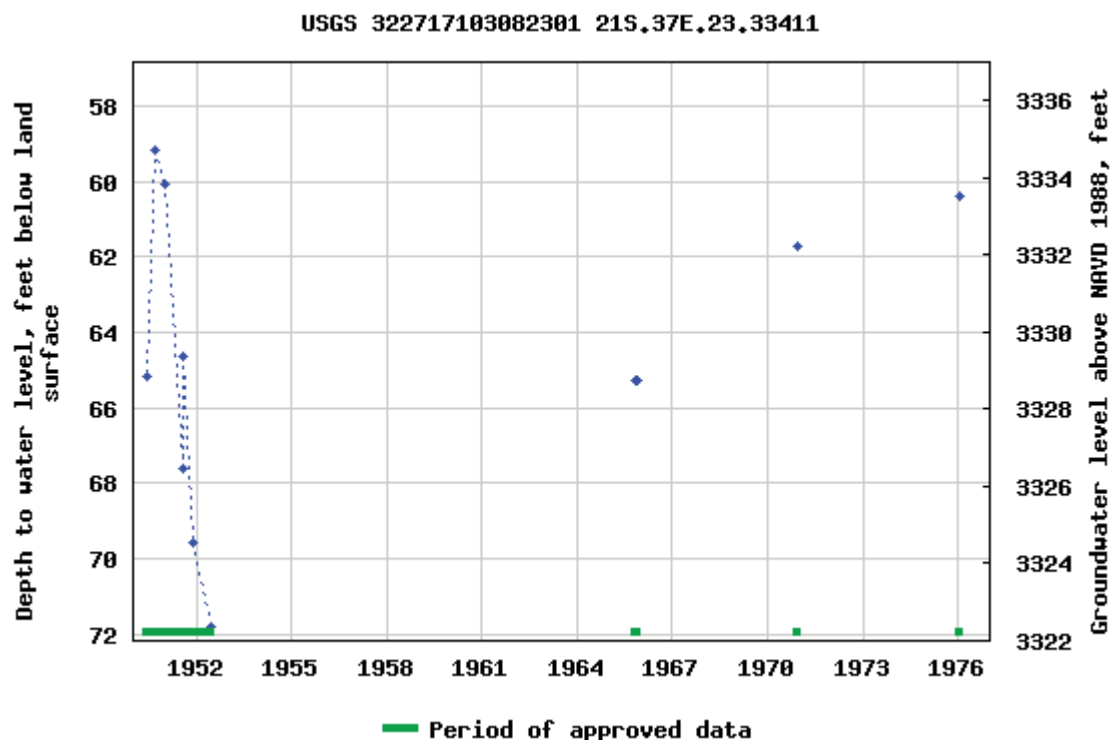
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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°27'24", Longitude 103°08'11" NAD27

Land-surface elevation 3,392 feet above NAVD88

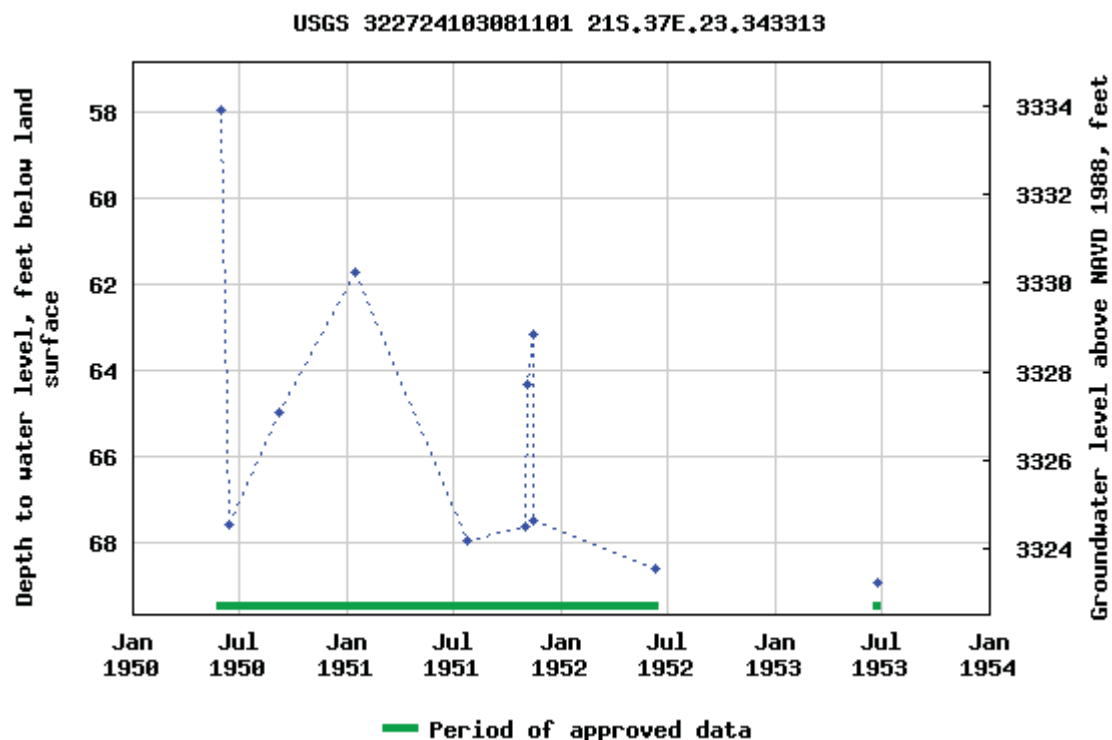
The depth of the well is 84 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°27'24", Longitude 103°08'32" NAD27

Land-surface elevation 3,399 feet above NAVD88

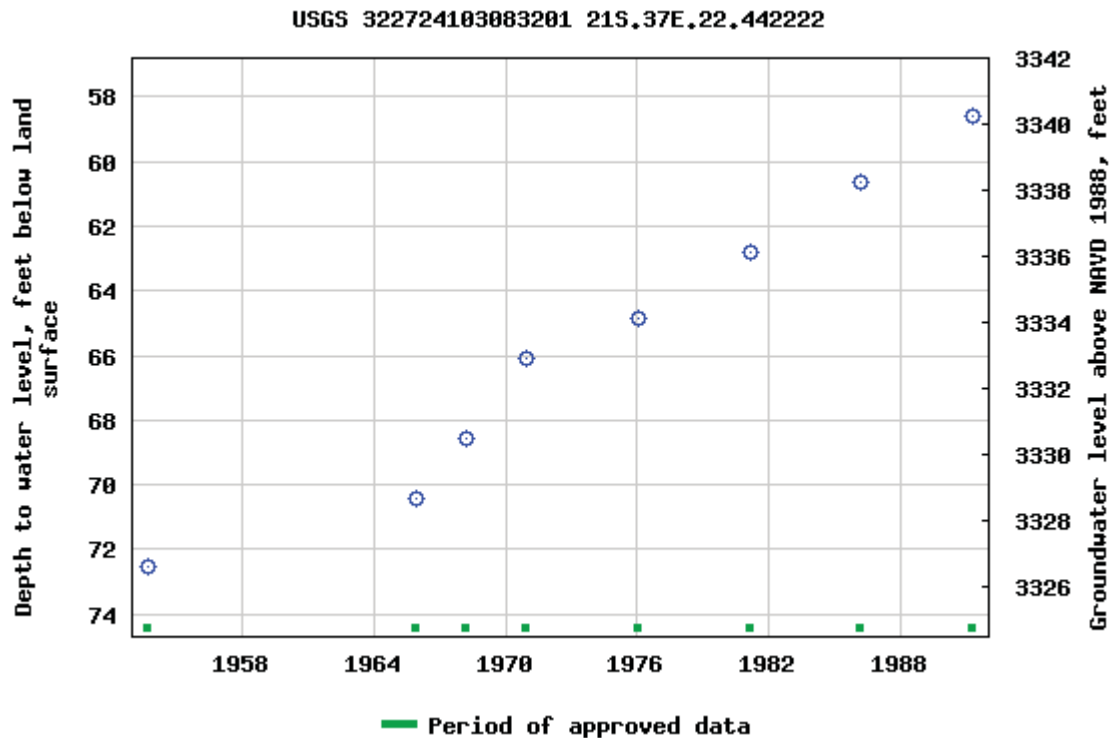
The depth of the well is 88 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°27'31", Longitude 103°08'17" NAD27

Land-surface elevation 3,396 feet above NAVD88

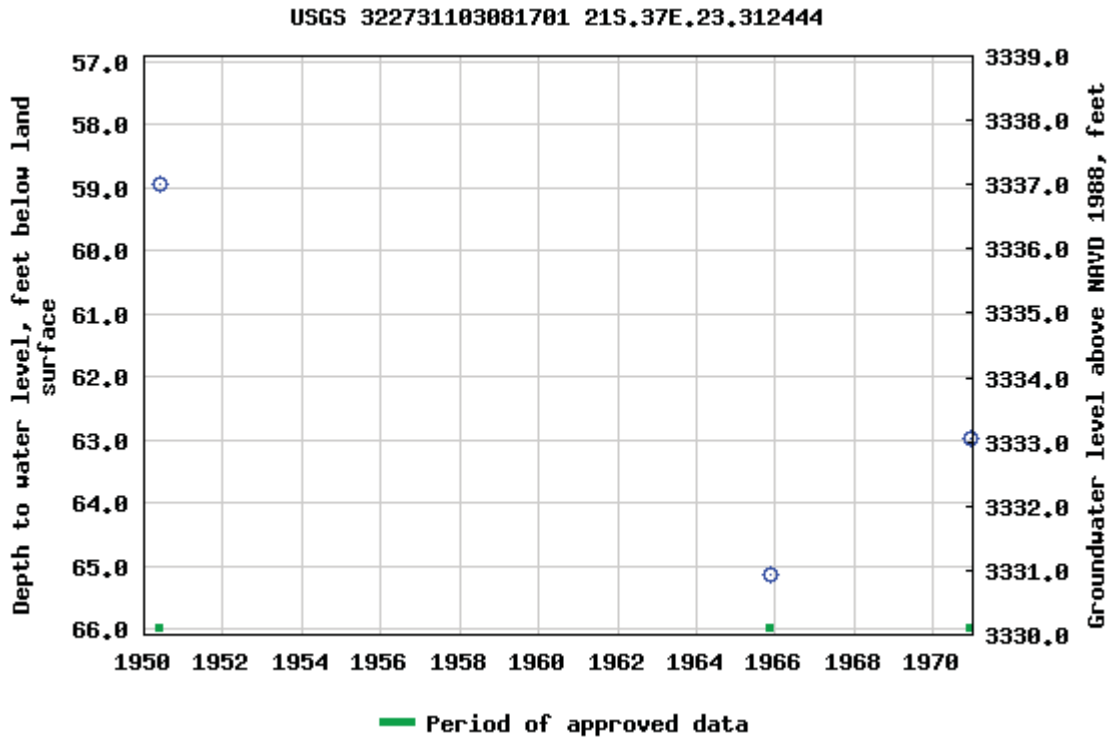
The depth of the well is 100 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°27'34", Longitude 103°08'26" NAD27

Land-surface elevation 3,400 feet above NAVD88

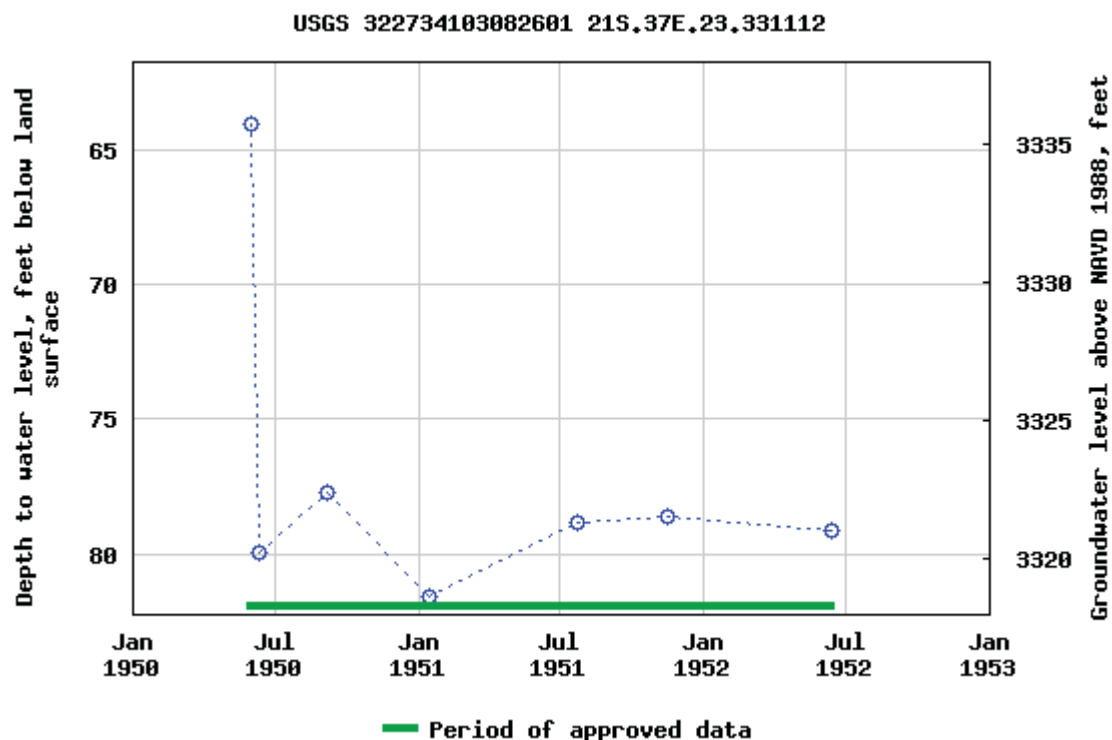
The depth of the well is 96 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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Tab-separated data
Graph of data
Reselect period



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Groundwater: Field measurements



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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°27'37", Longitude 103°08'01" NAD27

Land-surface elevation 3,385 feet above NAVD88

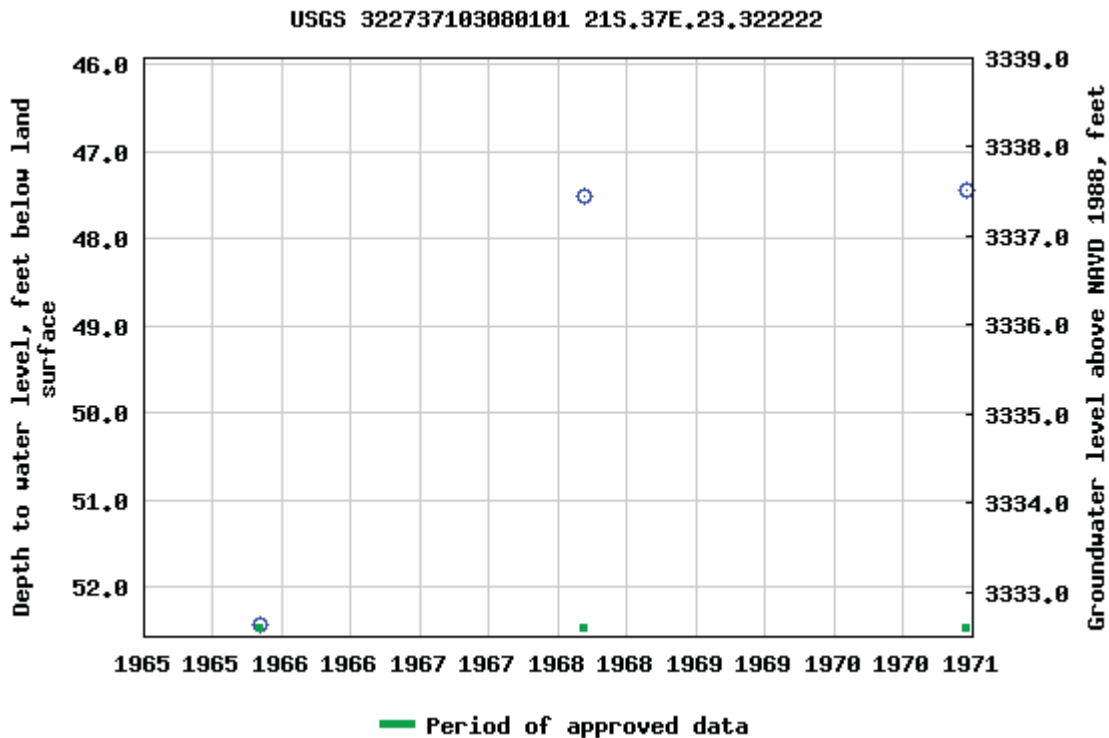
The depth of the well is 80 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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Tab-separated data
Graph of data
Reselect period



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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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0.55 0.49 nadww01



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USGS Water Resources

Data Category:

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Geographic Area:

United States

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Groundwater levels for the Nation



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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322738103075901

Minimum number of levels = 1

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USGS 322738103075901 21S.37E.23.23333

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°27'53", Longitude 103°08'00" NAD27

Land-surface elevation 3,387.90 feet above NGVD29

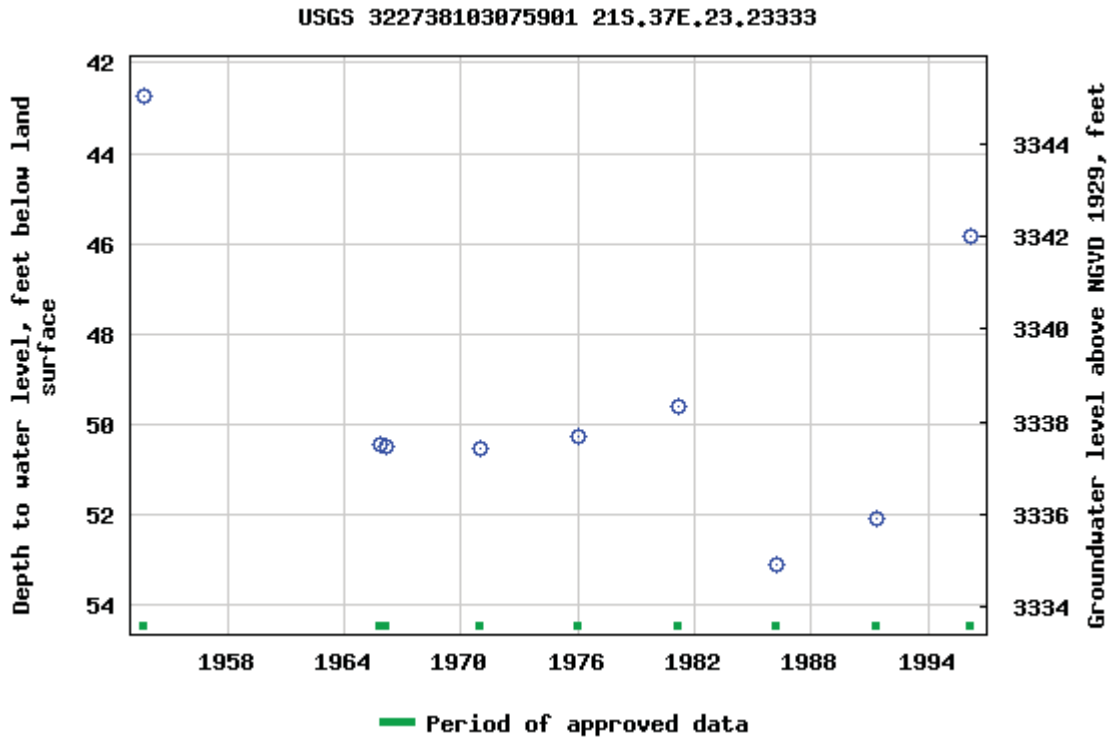
The depth of the well is 81 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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0.6 0.49 nadww01



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Data Category:

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Geographic Area:

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Agency code = usgs

site_no list =

- 322746103080001

Minimum number of levels = 1

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USGS 322746103080001 21S.37E.23.231313

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°27'46", Longitude 103°08'00" NAD27

Land-surface elevation 3,389 feet above NAVD88

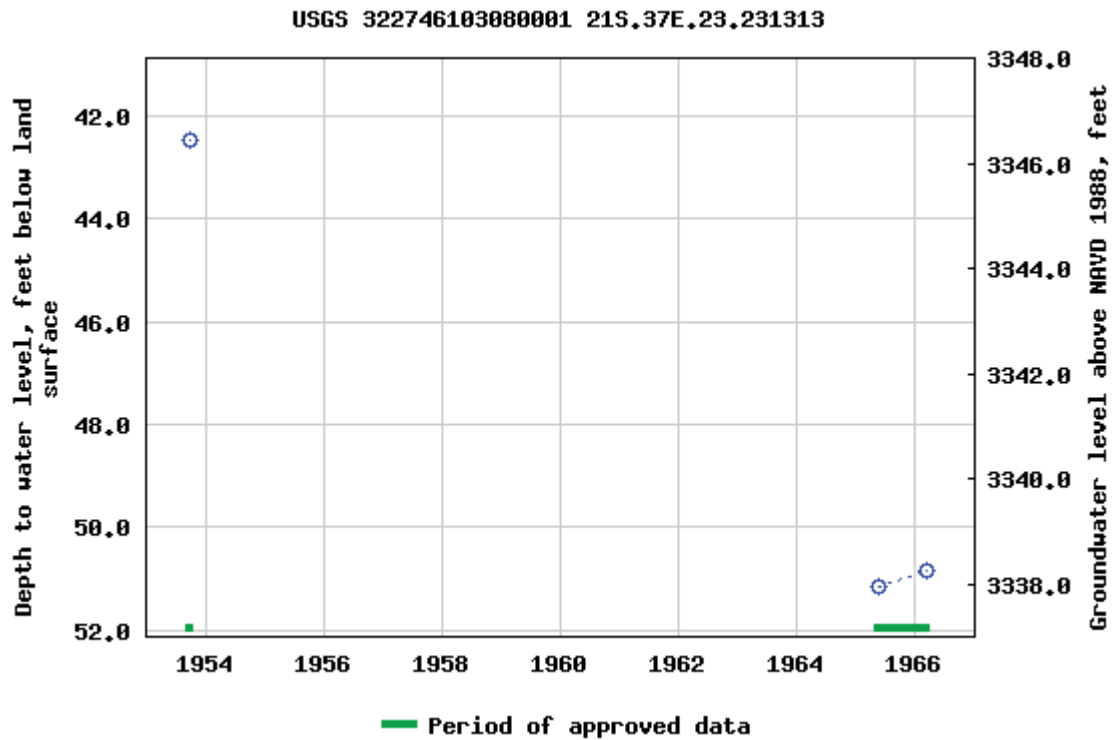
The depth of the well is 84 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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0.56 0.5 nadww01



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Agency code = usgs

site_no list =

- 322746103081401

Minimum number of levels = 1

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USGS 322746103081401 21S.37E.23.141332

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°27'46", Longitude 103°08'14" NAD27

Land-surface elevation 3,401 feet above NAVD88

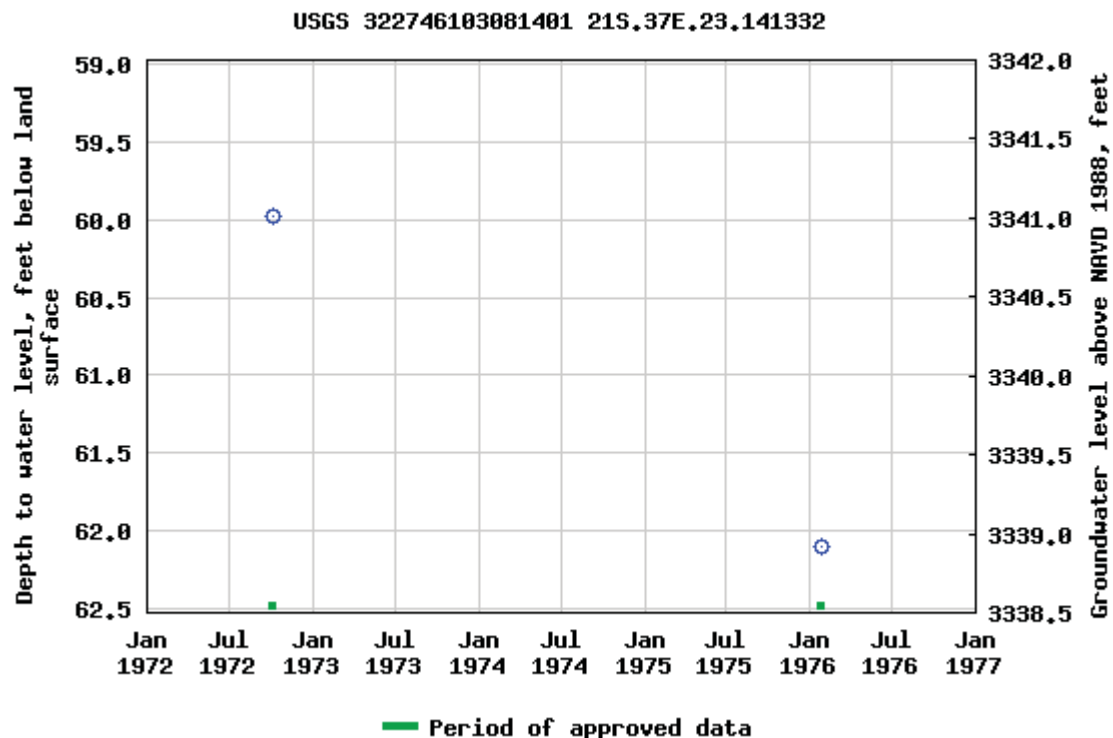
The depth of the well is 90 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



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Title: Groundwater for USA: Water Levels

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322752103080201

Minimum number of levels = 1

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USGS 322752103080201 21S.37E.23.124441

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°27'52", Longitude 103°08'02" NAD27

Land-surface elevation 3,389 feet above NAVD88

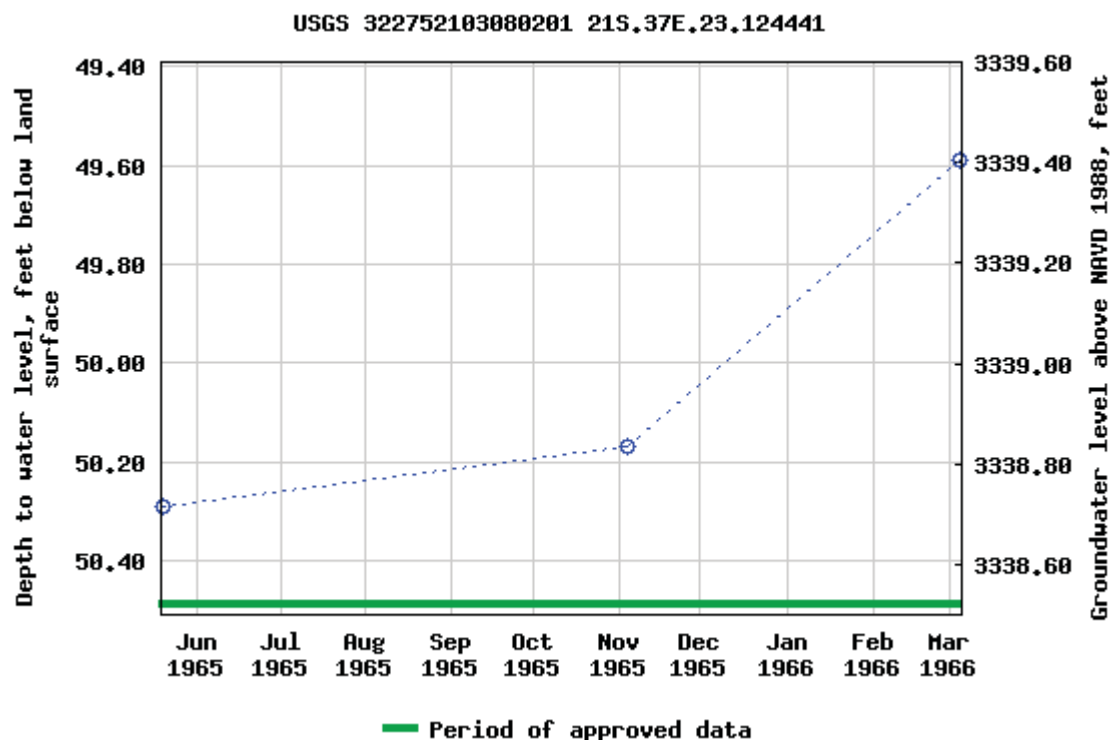
The depth of the well is 79 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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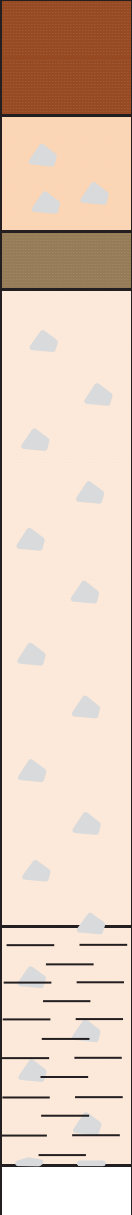

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0.54 0.48 nadww01

Appendix B

Field Data and Soil Profile Logs

Logger:	Joel Lowry			
Driller:	Scarborough Drilling			
Consultant:	Etech Environmental			
Drilling Method:	Air Rotary			
Start Date:	May 8, 2023			
End Date:	May 8, 2023			
Comments:	Drilled temp well per NMOCD to check for shallow groundwater, dry after 72 hrs Drafted by: Joel Lowry			Project Name: Sarkey Tank Battery Well ID: NA Location: Lat: 32.4589 Long: -103.13688 County: Lea State: NM

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
	-	-	-	Reddish Brown Sand/Topsoil		
5	-	-	-	Reddish Brown Sand/Topsoil		
	-	-	-	Pinkish/Gray Caliche		
10	-	-	-	Pinkish/Gray Caliche		
	-	-	-	Light Brown Sand with Clay		
15	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray Sandy Caliche		
20	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray Sandy Caliche		
25	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray Sandy Caliche		
30	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray Sandy Caliche		
35	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray Sandy Caliche		
40	-	-	-	White/Gray Sandy Caliche		
	-	-	-	White/Gray sandstone w/ Gravel & Clay		
45	-	-	-	White/Gray sandstone w/ Gravel & Clay		
	-	-	-	White/Gray sandstone w/ Gravel & Clay		
50	-	-	-	White/Gray sandstone w/ Gravel & Clay		
	-	-	-	TD 51.5 Ft.		
55	-	-	-			

Appendix C

Laboratory Analytical Reports



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

January 11, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/07/22 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/07/2022	Sampling Date:	01/07/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: FL - 1 @ 2' (H220073-01)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2022	ND	1.99	99.5	2.00	7.27	
Toluene*	<0.050	0.050	01/10/2022	ND	1.91	95.6	2.00	7.56	
Ethylbenzene*	<0.050	0.050	01/10/2022	ND	1.84	92.2	2.00	7.94	
Total Xylenes*	<0.150	0.150	01/10/2022	ND	5.60	93.3	6.00	7.39	
Total BTX	<0.300	0.300	01/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/10/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2022	ND	232	116	200	0.698	
DRO >C10-C28*	28.7	10.0	01/10/2022	ND	244	122	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/10/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

[illegible]



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

February 02, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/31/22 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/31/2022	Sampling Date:	01/28/2022
Reported:	02/02/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: DEF - HA - 1 @ SURFACE (H220366-01)

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	02/02/2022	ND	2.14	107	2.00	6.31	
Toluene*	<0.050	0.050	02/02/2022	ND	2.06	103	2.00	6.63	
Ethylbenzene*	<0.050	0.050	02/02/2022	ND	2.04	102	2.00	7.82	
Total Xylenes*	<0.150	0.150	02/02/2022	ND	6.18	103	6.00	8.56	
Total BTEX	<0.300	0.300	02/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

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	02/02/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/02/2022	ND	203	101	200	0.480	
DRO >C10-C28*	5930	50.0	02/02/2022	ND	225	113	200	0.174	
EXT DRO >C28-C36	1600	50.0	02/02/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 308 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/31/2022	Sampling Date:	01/28/2022
Reported:	02/02/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: DEF - HA - 1 @ 2' (H220366-02)

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	02/01/2022	ND	1.93	96.3	2.00	8.29		
Toluene*	<0.050	0.050	02/01/2022	ND	1.85	92.3	2.00	7.95		
Ethylbenzene*	<0.050	0.050	02/01/2022	ND	1.86	92.9	2.00	8.55		
Total Xylenes*	<0.150	0.150	02/01/2022	ND	5.63	93.8	6.00	8.92		
Total BTEX	<0.300	0.300	02/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/02/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2022	ND	203	101	200	0.480	
DRO >C10-C28*	1140	10.0	02/02/2022	ND	225	113	200	0.174	
EXT DRO >C28-C36	284	10.0	02/02/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 168 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Joel Lowry Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 15253 Project Owner: Eastland Project Name: Sarkey Battery Project Location: Rural Lea County, NM Sampler Name: Joel Lowry				BILL TO P.O. #: Company: Etech Environmental Attn: Joel Lowry Address: 2617 W. Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #:		ANALYSIS REQUEST																									
FOR LAB USE ONLY				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:			PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		Chloride TPH (8015M) BTEX (8021B)																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS																												
H220366																															
1	Def-HA-1 @ Surf	G	1		X			X	1/28/22												X	X	X								
2	Def-HA-1 @ 2'	G	1		X			X	1/28/22												X	X	X								

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

Relinquished By:	Date: 1-31-22	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1515		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Please email copy of COC and results to pm@etechenv.com.	

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
2.4 2.90 #113	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)

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

February 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/31/22 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NORTH WALL	H220367-01	Soil	28-Jan-22 00:00	31-Jan-22 15:15
EAST WALL	H220367-02	Soil	28-Jan-22 00:00	31-Jan-22 15:15
SOUTH WALL	H220367-03	Soil	28-Jan-22 00:00	31-Jan-22 15:15
WEST WALL	H220367-04	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 1	H220367-05	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 2	H220367-06	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 4	H220367-07	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 5	H220367-08	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 6	H220367-09	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 7	H220367-10	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 8	H220367-11	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 9	H220367-12	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 10	H220367-13	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 11	H220367-14	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 12	H220367-15	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 13	H220367-16	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 14	H220367-17	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 15	H220367-18	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 16	H220367-19	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 17	H220367-20	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 18	H220367-21	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 19	H220367-22	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 20	H220367-23	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 21	H220367-24	Soil	28-Jan-22 00:00	31-Jan-22 15:15
FL 3	H220367-25	Soil	28-Jan-22 00:00	31-Jan-22 15:15

02/07/22 - Sample ID was changed on -25 as per the client. This is the revised report and will replace the one sent on 02/03/21.

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

NORTH WALL
H220367-01 (Soil)

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

Chloride	192		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140 2020116 MS/ 01-Feb-22 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	3780		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	QM-07
EXT DRO >C28-C36	628		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane 85.8 % 66.9-136 2020114 MS 02-Feb-22 8015B

Surrogate: 1-Chlorooctadecane 217 % 59.5-142 2020114 MS 02-Feb-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

EAST WALL
H220367-02 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		101 %		69.9-140		2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	621		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	152		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane		88.3 %		66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane		153 %		59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

SOUTH WALL
H220367-03 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		103 %		69.9-140		2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	2780		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	416		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane		91.4 %		66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane		231 %		59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

WEST WALL
H220367-04 (Soil)

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

Chloride	240		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %		69.9-140	2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	3470		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	443		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			92.4 %		66.9-136	2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			288 %		59.5-142	2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 1
H220367-05 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		100 %		69.9-140		2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	3430		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	407		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane		80.3 %		66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane		232 %		59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 2
H220367-06 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		69.9-140	2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	3540		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	312		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			78.3 %		66.9-136	2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			144 %		59.5-142	2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 4
H220367-07 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	3290		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	185		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			85.2 %	66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			368 %	59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 5
H220367-08 (Soil)

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

Chloride	160		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		101 %		69.9-140		2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	2650		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	255		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane		93.4 %		66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane		243 %		59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 6
H220367-09 (Soil)

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

Chloride	320		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %		69.9-140	2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	7190		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	607		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			87.9 %		66.9-136	2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			510 %		59.5-142	2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 7
H220367-10 (Soil)

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

Chloride	144		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %		69.9-140	2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	920		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	188		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			81.4 %		66.9-136	2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			161 %		59.5-142	2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 8
H220367-11 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		100 %		69.9-140		2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	829		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	139		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane		88.2 %		66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane		168 %		59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 9
H220367-12 (Soil)

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

Chloride	128		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	69.9-140	2020116	MS/	01-Feb-22	8021B
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B
DRO >C10-C28*	4970	10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B
EXT DRO >C28-C36	546	10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B

Surrogate: 1-Chlorooctane	103 %	66.9-136	2020114	MS	02-Feb-22	8015B
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Surrogate: 1-Chlorooctadecane	536 %	59.5-142	2020114	MS	02-Feb-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 10
H220367-13 (Soil)

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

Chloride	144		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	0.331		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	GC-NC1
Total BTEX	0.331		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 127 % 69.9-140 2020116 MS/ 01-Feb-22 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	32.2		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	5450		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	596		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane 121 % 66.9-136 2020114 MS 02-Feb-22 8015B

Surrogate: 1-Chlorooctadecane 310 % 59.5-142 2020114 MS 02-Feb-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 11
H220367-14 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	2020		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	187		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			106 %	66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			465 %	59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 12
H220367-15 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.8 %		69.9-140	2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	1000		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	162		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			70.1 %		66.9-136	2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			166 %		59.5-142	2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 13
H220367-16 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		102 %		69.9-140		2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	3710		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	556		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane		86.4 %		66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane		170 %		59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 14
H220367-17 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	2020208	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		69.9-140	2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	1470		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	236		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			91.9 %		66.9-136	2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			247 %		59.5-142	2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 15
H220367-18 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	2020210	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	01-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	01-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		101 %		69.9-140		2020116	MS/	01-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	523		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	135		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane		82.8 %		66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane		131 %		59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 16
H220367-19 (Soil)

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

Chloride	16.0		16.0	mg/kg	4	2020210	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020116	MS/	02-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020116	MS/	02-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020116	MS/	02-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020116	MS/	02-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020116	MS/	02-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2020116	MS/	02-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	223		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	14.9		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			91.4 %	66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			115 %	59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 17
H220367-20 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	2020210	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020201	MS/	02-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2020201	MS/	02-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
DRO >C10-C28*	264		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	20.5		10.0	mg/kg	1	2020114	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			88.2 %	66.9-136		2020114	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			96.7 %	59.5-142		2020114	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 18
H220367-21 (Soil)

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

Chloride	<16.0		16.0	mg/kg	4	2020210	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020201	MS/	02-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		69.9-140	2020201	MS/	02-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	
DRO >C10-C28*	231		10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	166		10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			90.7 %		66.9-136	2020120	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			97.8 %		59.5-142	2020120	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 19
H220367-22 (Soil)

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

Chloride	320		16.0	mg/kg	4	2020210	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2020201	MS/	02-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140	2020201	MS/	02-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	
DRO >C10-C28*	7400	10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	2080	10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane	106 %	66.9-136	2020120	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane	175 %	59.5-142	2020120	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 20
H220367-23 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	2020210	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020201	MS/	02-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		101 %		69.9-140		2020201	MS/	02-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<100		100	mg/kg	10	2020120	MS	03-Feb-22	8015B	
DRO >C10-C28*	14100		100	mg/kg	10	2020120	MS	03-Feb-22	8015B	
EXT DRO >C28-C36	5260		100	mg/kg	10	2020120	MS	03-Feb-22	8015B	

Surrogate: 1-Chlorooctane		118 %		66.9-136		2020120	MS	03-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane		289 %		59.5-142		2020120	MS	03-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 21
H220367-24 (Soil)

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

Chloride	320		16.0	mg/kg	4	2020210	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020201	MS/	02-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %		69.9-140	2020201	MS/	02-Feb-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	
DRO >C10-C28*	9320		10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	2210		10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane			101 %		66.9-136	2020120	MS	02-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			212 %		59.5-142	2020120	MS	02-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

FL 3
H220367-25 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	2020210	AC	02-Feb-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2020201	MS/	02-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2020201	MS/	02-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140 2020201 MS/ 02-Feb-22 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	13.2		10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	
DRO >C10-C28*	7830		10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	
EXT DRO >C28-C36	1410		10.0	mg/kg	1	2020120	MS	02-Feb-22	8015B	

Surrogate: 1-Chlorooctane 111 % 66.9-136 2020120 MS 02-Feb-22 8015B

Surrogate: 1-Chlorooctadecane 180 % 59.5-142 2020120 MS 02-Feb-22 8015B

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Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2020208 - 1:4 DI Water**Blank (2020208-BLK1)**

Prepared & Analyzed: 02-Feb-22

Chloride	ND	16.0	mg/kg
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LCS (2020208-BS1)

Prepared & Analyzed: 02-Feb-22

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (2020208-BSD1)

Prepared & Analyzed: 02-Feb-22

Chloride	400	16.0	mg/kg	400	100	80-120	3.92	20
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Batch 2020210 - 1:4 DI Water**Blank (2020210-BLK1)**

Prepared & Analyzed: 02-Feb-22

Chloride	ND	16.0	mg/kg
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LCS (2020210-BS1)

Prepared & Analyzed: 02-Feb-22

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (2020210-BSD1)

Prepared & Analyzed: 02-Feb-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2020116 - Volatiles**Blank (2020116-BLK1)**

Prepared & Analyzed: 01-Feb-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	69.9-140			

LCS (2020116-BS1)

Prepared & Analyzed: 01-Feb-22

Benzene	1.93	0.050	mg/kg	2.00		96.3	85.1-114			
Toluene	1.85	0.050	mg/kg	2.00		92.3	88.6-116			
Ethylbenzene	1.86	0.050	mg/kg	2.00		92.9	84.4-115			
m,p-Xylene	3.80	0.100	mg/kg	4.00		95.0	85.5-116			
o-Xylene	1.83	0.050	mg/kg	2.00		91.4	85.2-111			
Total Xylenes	5.63	0.150	mg/kg	6.00		93.8	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.6	69.9-140			

LCS Dup (2020116-BSD1)

Prepared & Analyzed: 01-Feb-22

Benzene	2.09	0.050	mg/kg	2.00		105	85.1-114	8.29	12.6	
Toluene	2.00	0.050	mg/kg	2.00		100	88.6-116	7.95	13.3	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.4-115	8.55	13.9	
m,p-Xylene	4.13	0.100	mg/kg	4.00		103	85.5-116	8.43	13.6	
o-Xylene	2.02	0.050	mg/kg	2.00		101	85.2-111	9.91	14.1	
Total Xylenes	6.15	0.150	mg/kg	6.00		103	86.2-113	8.92	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	69.9-140			

Batch 2020201 - Volatiles**Blank (2020201-BLK1)**

Prepared & Analyzed: 02-Feb-22

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

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Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2020201 - Volatiles**Blank (2020201-BLK1)**

Prepared & Analyzed: 02-Feb-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	69.9-140			

LCS (2020201-BS1)

Prepared & Analyzed: 02-Feb-22

Benzene	2.11	0.050	mg/kg	2.00		105	85.1-114			
Toluene	2.03	0.050	mg/kg	2.00		101	88.6-116			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	84.4-115			
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	85.5-116			
o-Xylene	2.02	0.050	mg/kg	2.00		101	85.2-111			
Total Xylenes	6.16	0.150	mg/kg	6.00		103	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.1	69.9-140			

LCS Dup (2020201-BS1)

Prepared & Analyzed: 02-Feb-22

Benzene	1.95	0.050	mg/kg	2.00		97.3	85.1-114	7.83	12.6	
Toluene	1.88	0.050	mg/kg	2.00		94.0	88.6-116	7.51	13.3	
Ethylbenzene	1.88	0.050	mg/kg	2.00		94.1	84.4-115	7.93	13.9	
m,p-Xylene	3.84	0.100	mg/kg	4.00		96.0	85.5-116	7.70	13.6	
o-Xylene	1.86	0.050	mg/kg	2.00		93.0	85.2-111	7.96	14.1	
Total Xylenes	5.70	0.150	mg/kg	6.00		95.0	86.2-113	7.79	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.0	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2020114 - General Prep - Organics**Blank (2020114-BLK1)**

Prepared: 01-Feb-22 Analyzed: 02-Feb-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.2		mg/kg	50.0		94.3	66.9-136			
Surrogate: 1-Chlorooctadecane	45.3		mg/kg	50.0		90.6	59.5-142			

LCS (2020114-BS1)

Prepared: 01-Feb-22 Analyzed: 02-Feb-22

GRO C6-C10	195	10.0	mg/kg	200		97.3	81.6-129			
DRO >C10-C28	198	10.0	mg/kg	200		99.1	83-129			
Total TPH C6-C28	393	10.0	mg/kg	400		98.2	84.5-127			
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		97.0	66.9-136			
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	59.5-142			

LCS Dup (2020114-BS1)

Prepared: 01-Feb-22 Analyzed: 02-Feb-22

GRO C6-C10	212	10.0	mg/kg	200		106	81.6-129	8.60	21.4	
DRO >C10-C28	216	10.0	mg/kg	200		108	83-129	8.42	17.9	
Total TPH C6-C28	428	10.0	mg/kg	400		107	84.5-127	8.51	17.6	
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	66.9-136			
Surrogate: 1-Chlorooctadecane	56.0		mg/kg	50.0		112	59.5-142			

Batch 2020120 - General Prep - Organics**Blank (2020120-BLK1)**

Prepared: 01-Feb-22 Analyzed: 02-Feb-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	66.9-136			
Surrogate: 1-Chlorooctadecane	53.5		mg/kg	50.0		107	59.5-142			

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Analytical Results For:

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

Project: SARKEY BATTERY
Project Number: 15253
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Feb-22 15:01

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2020120 - General Prep - Organics**LCS (2020120-BS1)**

Prepared: 01-Feb-22 Analyzed: 02-Feb-22

GRO C6-C10	182	10.0	mg/kg	200		90.9	81.6-129			
DRO >C10-C28	228	10.0	mg/kg	200		114	83-129			
Total TPH C6-C28	410	10.0	mg/kg	400		102	84.5-127			
Surrogate: 1-Chlorooctane	57.7		mg/kg	50.0		115	66.9-136			
Surrogate: 1-Chlorooctadecane	60.1		mg/kg	50.0		120	59.5-142			

LCS Dup (2020120-BS1)

Prepared: 01-Feb-22 Analyzed: 02-Feb-22

GRO C6-C10	223	10.0	mg/kg	200		111	81.6-129	20.2	21.4	
DRO >C10-C28	231	10.0	mg/kg	200		115	83-129	1.12	17.9	
Total TPH C6-C28	453	10.0	mg/kg	400		113	84.5-127	10.0	17.6	
Surrogate: 1-Chlorooctane	57.8		mg/kg	50.0		116	66.9-136			
Surrogate: 1-Chlorooctadecane	60.3		mg/kg	50.0		121	59.5-142			

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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Page 1 of 3

FORM-006
Revision 1.0

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																
Address: 2617 West Marland				Company: Etech Environmental																				
City: Hobbs State: NM Zip: 88240				Attn: Joel Lowry																				
Phone #: (575) 264-9884 Fax #:				Address: 2617 W. Marland																				
Project #: 15253 Project Owner: Eastland				City: Hobbs																				
Project Name: Sarkey Battery				State: NM Zip: 88240																				
Project Location: Rural Lea County, NM				Phone #: (575) 264-9884																				
Sampler Name: Joel Lowry				Fax #:																				
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
4726367																								
11	FL 8	C	1			X				X			1/28/22		X	X	X							
12	FL 9	C	1			X				X			1/28/22		X	X	X							
13	FL 10	C	1			X				X			1/28/22		X	X	X							
14	FL 11	C	1			X				X			1/28/22		X	X	X							
15	FL 12	C	1			X				X			1/28/22		X	X	X							
16	FL 13	C	1			X				X			1/28/22		X	X	X							
17	FL 14	C	1			X				X			1/28/22		X	X	X							
18	FL 15	C	1			X				X			1/28/22		X	X	X							
19	FL 16	C	1			X				X			1/28/22		X	X	X							
20	FL 17	C	1			X				X			1/28/22		X	X	X							
<p><small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																								
Relinquished By: <i>Mark</i>				Date: 1-31-22		Received By: <i>Samara Aldafer</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:										
				Time: 1515						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:										
Relinquished By:				Date:		Received By:				REMARKS:														
				Time:																				
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email copy of COC and results to pm@etechenv.com.												
Sampler - UPS - Bus - Other: <i>-2.4°C - 0.5°C</i>				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				(Initials)																
				<i>-2.9°C #13</i>				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																



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Page 3 of 3

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Revision 1.0

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

February 17, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/15/22 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/17/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: V 1 @ 2' (H220577-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2022	ND	236	118	200	0.0940	
DRO >C10-C28*	73.4	10.0	02/17/2022	ND	232	116	200	0.108	
EXT DRO >C28-C36	19.7	10.0	02/17/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Sample ID: V 1 @ 3' (H220577-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2022	ND	236	118	200	0.0940	
DRO >C10-C28*	<10.0	10.0	02/17/2022	ND	232	116	200	0.108	
EXT DRO >C28-C36	<10.0	10.0	02/17/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.4 % 59.5-142

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/17/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: V 2 @ 4' (H220577-03)

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2022	ND	236	118	200	0.0940	
DRO >C10-C28*	1530	10.0	02/17/2022	ND	232	116	200	0.108	
EXT DRO >C28-C36	514	10.0	02/17/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	87.2 %	66.9-136							
Surrogate: 1-Chlorooctadecane	146 %	59.5-142							

Sample ID: V 2 @ 6' (H220577-04)

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2022	ND	236	118	200	0.0940	
DRO >C10-C28*	897	10.0	02/17/2022	ND	232	116	200	0.108	
EXT DRO >C28-C36	354	10.0	02/17/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	99.8 %	66.9-136							
Surrogate: 1-Chlorooctadecane	186 %	59.5-142							

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/17/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: V 3 @ 3' (H220577-05)

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2022	ND	236	118	200	0.0940		
DRO >C10-C28*	<10.0	10.0	02/17/2022	ND	232	116	200	0.108		
EXT DRO >C28-C36	<10.0	10.0	02/17/2022	ND						
<hr/>										
Surrogate: 1-Chlorooctane	96.7 %	66.9-136								
Surrogate: 1-Chlorooctadecane	103 %	59.5-142								

Sample ID: V 4 @ 2' (H220577-06)

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2022	ND	236	118	200	0.0940		
DRO >C10-C28*	1980	10.0	02/17/2022	ND	232	116	200	0.108		
EXT DRO >C28-C36	731	10.0	02/17/2022	ND						
<hr/>										
Surrogate: 1-Chlorooctane	95.3 %	66.9-136								
Surrogate: 1-Chlorooctadecane	182 %	59.5-142								

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/17/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: V 4 @ 3' (H220577-07)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2022	ND	236	118	200	0.0940	
DRO >C10-C28*	<10.0	10.0	02/17/2022	ND	232	116	200	0.108	
EXT DRO >C28-C36	<10.0	10.0	02/17/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	93.2 %	66.9-136							
Surrogate: 1-Chlorooctadecane	98.3 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Page 1 of 1

Company Name:				Etech Environmental & Safety Solutions, Inc.																	
Project Manager:				Joel Lowry																	
Address:				2617 West Marland																	
City:				Hobbs	State:	NM	Zip:	88240													
Phone #:				(575) 264-9884	Fax #:																
Project #:				15253	Project Owner:	Eastland															
Project Name:				Sarkey Battery																	
Project Location:				Rural Lea County, NM																	
Sampler Name:				Joel Lowry																	
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		GIRAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	Chloride TPH (8015M) BTEX (8021B)	ANALYSIS REQUEST											
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE		TIME											
#220577				G	1	X		X		2/15/22		X									
1 V1 @ 2'				G	1	X		X		2/15/22		X									
2 V1 @ 3'				G	1	X		X		2/15/22		X									
3 V2 @ 4'				G	1	X		X		2/15/22		X									
4 V2 @ 6'				G	1	X		X		2/15/22		X									
5 V3 @ 3'				G	1	X		X		2/15/22		X									
6 V4 @ 2'				G	1	X		X		2/15/22		X									
7 V4 @ 3'				G	1	X		X		2/15/22		X									
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																					
Relinquished By:				Date:	2-15-22	Received By:				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:											
Time:				7:55	Signature: [Handwritten Signature]				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:												
Relinquished By:				Date:		Received By:				REMARKS:											
Time:																					
Delivered By: (Circle One)				-3.4°C C-0.5g	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				CHECKED BY: TO												
Sampler - UPS - Bus - Other:				-3.9°C #113					Please email copy of COC and results to pm@etechenv.com.												

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+ Cardinal cannot accept responsibility if

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Revision 1.0

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

April 14, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/12/22 15:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/12/2022
 Reported: 04/14/2022
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 04/12/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 1 @ 3 FT (H221508-01)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	304	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	77.3	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	112 %	66.9-136							
Surrogate: 1-Chlorooctadecane	119 %	59.5-142							

Sample ID: FS 2 @ 3 FT (H221508-02)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	84.3	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	25.7	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	113 %	66.9-136							
Surrogate: 1-Chlorooctadecane	122 %	59.5-142							

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/12/2022
 Reported: 04/14/2022
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 04/12/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 3 @ 3 FT (H221508-03)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	912	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	275	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

Sample ID: FS 4 @ 3 FT (H221508-04)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	45.3	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/12/2022
 Reported: 04/14/2022
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 04/12/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 5 @ 3 FT (H221508-05)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	103 %	66.9-136							
Surrogate: 1-Chlorooctadecane	113 %	59.5-142							

Sample ID: FS 6 @ 2 FT (H221508-06)

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	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	241	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	95.8	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	109 %	66.9-136							
Surrogate: 1-Chlorooctadecane	117 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/12/2022
 Reported: 04/14/2022
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 04/12/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 9 @ 3 FT (H221508-07)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	541	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	178	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 59.5-142

Sample ID: FS 10 @ 3 FT (H221508-08)

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	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	25.0	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Analytical Results For:

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

Received: 04/12/2022
 Reported: 04/14/2022
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 04/12/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 11 @ 3 FT (H221508-09)

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	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	146	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	29.3	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

Sample ID: FS 13 @ 3 FT (H221508-10)

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	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	182	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	75.2	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager





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

April 14, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/13/22 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	04/13/2022	Sampling Date:	04/13/2022
Reported:	04/14/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: NW 1 B (H221534-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	104 %	66.9-136							
Surrogate: 1-Chlorooctadecane	115 %	59.5-142							

Sample ID: NW 2 B (H221534-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	108 %	66.9-136							
Surrogate: 1-Chlorooctadecane	119 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/13/2022	Sampling Date:	04/13/2022
Reported:	04/14/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: SW 1 B (H221534-03)

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	196	98.2	200	1.18		
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	188	93.9	200	1.41		
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND						
<hr/>										
Surrogate: 1-Chlorooctane	113 %	66.9-136								
Surrogate: 1-Chlorooctadecane	124 %	59.5-142								

Sample ID: SW 2 (H221534-04)

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	196	98.2	200	1.18		
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	188	93.9	200	1.41		
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND						
<hr/>										
Surrogate: 1-Chlorooctane	110 %	66.9-136								
Surrogate: 1-Chlorooctadecane	122 %	59.5-142								

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/13/2022	Sampling Date:	04/13/2022
Reported:	04/14/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: WW 1 B (H221534-05)

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	196	98.2	200	1.18		
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	188	93.9	200	1.41		
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND						
<hr/>										
Surrogate: 1-Chlorooctane	108 %	66.9-136								
Surrogate: 1-Chlorooctadecane	119 %	59.5-142								

Sample ID: FL 14 B @ 5' (H221534-06)

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	04/14/2022	ND	196	98.2	200	1.18		
DRO >C10-C28*	420	10.0	04/14/2022	ND	188	93.9	200	1.41		
EXT DRO >C28-C36	190	10.0	04/14/2022	ND						
<hr/>										
Surrogate: 1-Chlorooctane	93.4 %	66.9-136								
Surrogate: 1-Chlorooctadecane	103 %	59.5-142								

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/13/2022
 Reported: 04/14/2022
 Project Name: SARKEY BATTERY
 Project Number: 15253
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 04/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 19 B @ 2' (H221534-07)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	104 %	66.9-136							
Surrogate: 1-Chlorooctadecane	115 %	59.5-142							

Sample ID: FL 20 B @ 2' (H221534-08)

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	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	102 %	66.9-136							
Surrogate: 1-Chlorooctadecane	114 %	59.5-142							

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Analytical Results For:

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

Received:	04/13/2022	Sampling Date:	04/13/2022
Reported:	04/14/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: FL 21 B @ 2' (H221534-09)

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	04/14/2022	ND	196	98.2	200	1.18	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	188	93.9	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	93.4 %	66.9-136							
Surrogate: 1-Chlorooctadecane	105 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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

July 08, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/05/22 14:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/05/2022
 Reported: 07/08/2022
 Project Name: SARKEY BATTERY
 Project Number: 15253
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 07/05/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EH (H222860-01)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	186	92.9	200	1.52	
DRO >C10-C28*	35.2	10.0	07/07/2022	ND	192	95.8	200	0.447	
EXT DRO >C28-C36	23.9	10.0	07/07/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	81.0 %	43-149							
Surrogate: 1-Chlorooctadecane	91.4 %	42.5-161							

Sample ID: V - 2B @ 7.5' (H222860-02)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	186	92.9	200	1.52	
DRO >C10-C28*	391	10.0	07/07/2022	ND	192	95.8	200	0.447	
EXT DRO >C28-C36	147	10.0	07/07/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	78.3 %	43-149							
Surrogate: 1-Chlorooctadecane	113 %	42.5-161							

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joel Lowry

Address: 2617 West Marland

City: Hobbs

State: NM Zip: 88240

Phone #: (575) 264-9884

Fax #:

Project #: 15253

Project Owner: Eastland

Project Name: Sarkey Battery

Project Location: Rural Lea County, NM

Sampler Name: Joel Lowry

BILL TO

P.O. #:

Company Etech Environmental

Attn: Joel Lowry

Address: 2617 W. Marland

City: Hobbs

State: NM Zip: 88240

Phone #: (575) 264-9884

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

PRESERV.

SAMPLING

DATE

TIME

Chloride

TPH (8015M)

BTEX (8021B)

42228100

1
2

EH

V-2b @ 7.5'

C

1

X

X

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Relinquished By:

Date: 7-5-22

Time: 1:48

Received By:

[Signature]

Date:

Time:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

0.9% C-0.5%

0.4% #113

Sample Condition

Cool Intact

☒ Yes ☒ Yes

☐ No ☐ No

CHECKED BY:

(Initials)

[Signature]

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

REMARKS:

Add'l Phone #:

Add'l Fax #:

Please email copy of COC and results to pm@etechenv.com.

FORM-006

Revision 1.0

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



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

July 11, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/07/22 14:51.

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Shalyn Rodriguez
Project Location:	EASTLAND - LEA CO NM		

Sample ID: PSP #1 @ 1' (H222921-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.97	98.7	2.00	4.84	
Toluene*	<0.050	0.050	07/08/2022	ND	2.02	101	2.00	5.21	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.06	103	2.00	4.91	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.26	104	6.00	5.09	
Total BTX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	216	108	200	1.16	
DRO >C10-C28*	330	10.0	07/11/2022	ND	212	106	200	2.61	
EXT DRO >C28-C36	167	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 73.2 % 43-149

Surrogate: 1-Chlorooctadecane 72.4 % 42.5-161

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Shalyn Rodriguez
Project Location:	EASTLAND - LEA CO NM		

Sample ID: PSP #1 @ 2' (H222921-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	1.97	98.7	2.00	4.84		
Toluene*	<0.050	0.050	07/08/2022	ND	2.02	101	2.00	5.21		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.06	103	2.00	4.91		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.26	104	6.00	5.09		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	216	108	200	1.16	
DRO >C10-C28*	351	10.0	07/11/2022	ND	212	106	200	2.61	
EXT DRO >C28-C36	176	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 43-149

Surrogate: 1-Chlorooctadecane 80.1 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Shalyn Rodriguez
Project Location:	EASTLAND - LEA CO NM		

Sample ID: PSP #2 @ 1' (H222921-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	1.97	98.7	2.00	4.84		
Toluene*	<0.050	0.050	07/08/2022	ND	2.02	101	2.00	5.21		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.06	103	2.00	4.91		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.26	104	6.00	5.09		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	216	108	200	1.16	
DRO >C10-C28*	5600	10.0	07/11/2022	ND	212	106	200	2.61	
EXT DRO >C28-C36	1200	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 71.4 % 43-149

Surrogate: 1-Chlorooctadecane 242 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Shalyn Rodriguez
Project Location:	EASTLAND - LEA CO NM		

Sample ID: PSP #2 @ 2' (H222921-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/09/2022	ND	1.97	98.7	2.00	4.84		
Toluene*	<0.050	0.050	07/09/2022	ND	2.02	101	2.00	5.21		
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.06	103	2.00	4.91		
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.26	104	6.00	5.09		
Total BTEX	<0.300	0.300	07/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	216	108	200	1.16	
DRO >C10-C28*	2200	10.0	07/11/2022	ND	212	106	200	2.61	
EXT DRO >C28-C36	817	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 43-149

Surrogate: 1-Chlorooctadecane 173 % 42.5-161

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	SARKEY BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15253	Sample Received By:	Shalyn Rodriguez
Project Location:	EASTLAND - LEA CO NM		

Sample ID: PSP #2 @ 3' (H222921-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/08/2022	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	216	108	200	1.16		
DRO >C10-C28*	764	10.0	07/11/2022	ND	212	106	200	2.61		
EXT DRO >C28-C36	289	10.0	07/11/2022	ND						
Surrogate: 1-Chlorooctane	57.4 %	43-149								
Surrogate: 1-Chlorooctadecane	98.1 %	42.5-161								

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

[illegible]



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

August 18, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/17/23 8:59.

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/18/2023	Sampling Type:	Soil
Project Name:	SARKEY TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15520	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: SW #1 (H234445-01)

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	08/17/2023	ND	2.09	105	2.00	3.05	
Toluene*	<0.050	0.050	08/17/2023	ND	2.02	101	2.00	3.98	
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	1.94	97.2	2.00	3.79	
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.89	98.1	6.00	4.27	
Total BTEX	<0.300	0.300	08/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/17/2023	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	08/17/2023	ND	191	95.4	200	3.09	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	197	98.5	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/18/2023	Sampling Type:	Soil
Project Name:	SARKEY TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15520	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: EW #1 (H234445-02)

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	08/17/2023	ND	2.09	105	2.00	3.05		
Toluene*	<0.050	0.050	08/17/2023	ND	2.02	101	2.00	3.98		
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	1.94	97.2	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.89	98.1	6.00	4.27		
Total BTEX	<0.300	0.300	08/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/17/2023	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	08/17/2023	ND	191	95.4	200	3.09	
DRO >C10-C28*	79.5	10.0	08/17/2023	ND	197	98.5	200	15.8	
EXT DRO >C28-C36	29.1	10.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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



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

Analytical Results For:

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

Received: 08/17/2023
 Reported: 08/18/2023
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 08/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW #1 (H234445-03)

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	08/17/2023	ND	2.09	105	2.00	3.05		
Toluene*	<0.050	0.050	08/17/2023	ND	2.02	101	2.00	3.98		
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	1.94	97.2	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.89	98.1	6.00	4.27		
Total BTEX	<0.300	0.300	08/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	<16.0	16.0	08/17/2023	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	08/17/2023	ND	191	95.4	200	3.09	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	197	98.5	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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



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

Analytical Results For:

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

Received: 08/17/2023
 Reported: 08/18/2023
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 08/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW #1 (H234445-04)

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	08/17/2023	ND	2.09	105	2.00	3.05		
Toluene*	<0.050	0.050	08/17/2023	ND	2.02	101	2.00	3.98		
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	1.94	97.2	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.89	98.1	6.00	4.27		
Total BTEX	<0.300	0.300	08/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	64.0	16.0	08/17/2023	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	08/18/2023	ND	191	95.4	200	3.09	
DRO >C10-C28*	435	10.0	08/18/2023	ND	197	98.5	200	15.8	
EXT DRO >C28-C36	193	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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



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

Analytical Results For:

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

Received: 08/17/2023
 Reported: 08/18/2023
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 08/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL #1 @ 4FT (H234445-05)

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	08/17/2023	ND	2.09	105	2.00	3.05	
Toluene*	<0.050	0.050	08/17/2023	ND	2.02	101	2.00	3.98	
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	1.94	97.2	2.00	3.79	
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.89	98.1	6.00	4.27	
Total BTEX	<0.300	0.300	08/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	96.0	16.0	08/17/2023	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	08/17/2023	ND	191	95.4	200	3.09	
DRO >C10-C28*	25.8	10.0	08/17/2023	ND	197	98.5	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/17/2023	Sampling Date:	08/16/2023
Reported:	08/18/2023	Sampling Type:	Soil
Project Name:	SARKEY TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	15520	Sample Received By:	Tamara Oldaker
Project Location:	EASTLAND - LEA CO NM		

Sample ID: FL #2 @ 4FT (H234445-06)

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	08/17/2023	ND	2.09	105	2.00	3.05		
Toluene*	<0.050	0.050	08/17/2023	ND	2.02	101	2.00	3.98		
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	1.94	97.2	2.00	3.79		
Total Xylenes*	0.647	0.150	08/17/2023	ND	5.89	98.1	6.00	4.27	GC-NC1	
Total BTEX	0.668	0.300	08/17/2023	ND					GC-NC1	

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	94.4	50.0	08/17/2023	ND	191	95.4	200	3.09	
DRO >C10-C28*	6450	50.0	08/17/2023	ND	197	98.5	200	15.8	
EXT DRO >C28-C36	1430	50.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 164 % 49.1-148

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



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

Analytical Results For:

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

Received: 08/17/2023
 Reported: 08/18/2023
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 08/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL #3 @ 4FT (H234445-07)

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	08/17/2023	ND	2.09	105	2.00	3.05	
Toluene*	<0.050	0.050	08/17/2023	ND	2.02	101	2.00	3.98	
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	1.94	97.2	2.00	3.79	
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.89	98.1	6.00	4.27	
Total BTEx	<0.300	0.300	08/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	16.0	16.0	08/17/2023	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	08/18/2023	ND	191	95.4	200	3.09	
DRO >C10-C28*	865	10.0	08/18/2023	ND	197	98.5	200	15.8	
EXT DRO >C28-C36	344	10.0	08/18/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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



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

Analytical Results For:

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

Received: 08/17/2023
 Reported: 08/18/2023
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 08/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL #4 @ 4FT (H234445-08)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2023	ND	2.09	105	2.00	3.05	
Toluene*	0.128	0.050	08/17/2023	ND	2.02	101	2.00	3.98	GC-NC1
Ethylbenzene*	0.540	0.050	08/17/2023	ND	1.94	97.2	2.00	3.79	GC-NC1
Total Xylenes*	4.23	0.150	08/17/2023	ND	5.89	98.1	6.00	4.27	GC-NC1
Total BTEx	4.90	0.300	08/17/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 195 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	295	50.0	08/17/2023	ND	191	95.4	200	3.09	
DRO >C10-C28*	8140	50.0	08/17/2023	ND	197	98.5	200	15.8	
EXT DRO >C28-C36	1630	50.0	08/17/2023	ND					

Surrogate: 1-Chlorooctane 183 % 48.2-134

Surrogate: 1-Chlorooctadecane 224 % 49.1-148

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

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: The Eastland Oil Company		BILL TO		ANALYSIS REQUEST									
Project Manager: Joel Lowry		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH</div> <div>BTEX 8021</div> </div>									
Address: 3100 Plains Hwy		Company: Etech Environmental											
City: Lovington State: NM Zip: 88260		Attn: Joel Lowry											
Phone #: 575-396-2378 Fax #: 575-396-1429		Address: P.O. Box 301											
Project #: 15520 Project Owner: The Eastland Oil Company		City: Lovington											
Project Name: Sarkey Tank Battery		State: NM Zip: 88260											
Project Location: UL/N Sec 23 T21S - R37E		Phone #: 575-396-2378											
Sampler Name: Aaron Pias		Fax #: 575-396-1429											

Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH	BTEX 8021
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
1234445	1 SW #1	X			X				X			8/16/23		X	X	X
	2 EW #1	X			X				X			8/16/23				
	3 NW #1	X			X				X			8/16/23				
	4 WW #1	X			X				X			8/16/23				
	5 FL # 1 @ 4ft	X			X				X			8/16/23				
	6 FL # 2 @ 4ft	X			X				X			8/16/23				
	7 FL # 3 @ 4ft	X			X				X			8/16/23				
	8 FL # 4 @ 4ft	X			X				X			8/16/23				

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

Relinquished By:	Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 8-17-23	Received By:	REMARKS: Email results to joel@etechenv.com	
Delivered By: (Circle One)	Time: 0859		<div style="text-align: center;"> <p>Rush</p> <p>24hr.</p> </div>	
Sampler - UPS - Bus - Other: -7.6	#140	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
CHECKED BY: (Initials) JO				

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



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

August 28, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/25/23 13:48.

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

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
JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received: 08/25/2023
Reported: 08/28/2023
Project Name: SARKEY TANK BATTERY
Project Number: 15520
Project Location: EASTLAND - LEA CO NM

Sampling Date: 08/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EW 1 B (H234641-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	177	88.4	200	3.32	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	197	98.7	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	90.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	107 %	49.1-148							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Page 4 of 4

[illegible]



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

August 22, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SARKEY TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/18/23 16:43.

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/18/2023
 Reported: 08/22/2023
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 08/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 1 B (H234519-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2023	ND	184	91.8	200	3.77	
DRO >C10-C28*	<10.0	10.0	08/21/2023	ND	187	93.5	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	08/21/2023	ND					
Surrogate: 1-Chlorooctane	96.6 %	48.2-134							
Surrogate: 1-Chlorooctadecane	101 %	49.1-148							

Sample ID: FL #2 @ 13FT (H234519-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2023	ND	184	91.8	200	3.77	
DRO >C10-C28*	<10.0	10.0	08/21/2023	ND	187	93.5	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	08/21/2023	ND					
Surrogate: 1-Chlorooctane	75.9 %	48.2-134							
Surrogate: 1-Chlorooctadecane	77.8 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2023
 Reported: 08/22/2023
 Project Name: SARKEY TANK BATTERY
 Project Number: 15520
 Project Location: EASTLAND - LEA CO NM

Sampling Date: 08/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #4 @ 13FT (H234519-03)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2023	ND	184	91.8	200	3.77	
DRO >C10-C28*	<10.0	10.0	08/21/2023	ND	187	93.5	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	08/21/2023	ND					
Surrogate: 1-Chlorooctane	77.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	80.8 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

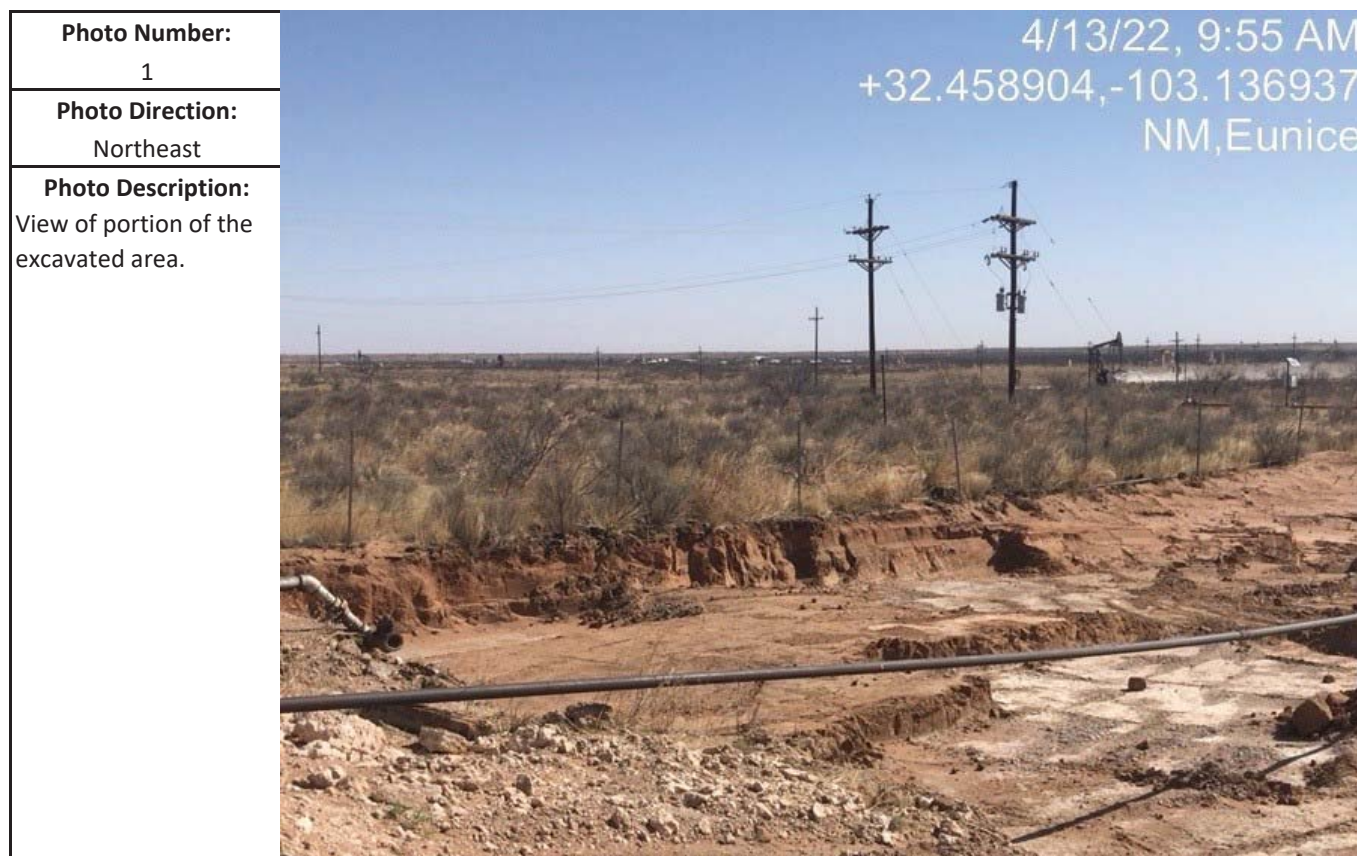
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed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

Relinquished By: _____ Date: 8-27-2018 Received By: _____

Appendix D

Photographic Log

Photographic Log



Photographic Log




Photographic Log

Photo Number: 5	<div>4/20/22, 12:53 PM +32.459008,-103.136410 NM,Eunice</div> 
Photo Direction: West	
Photo Description: View of the affected area after backfilling activities.	

Photographic Log

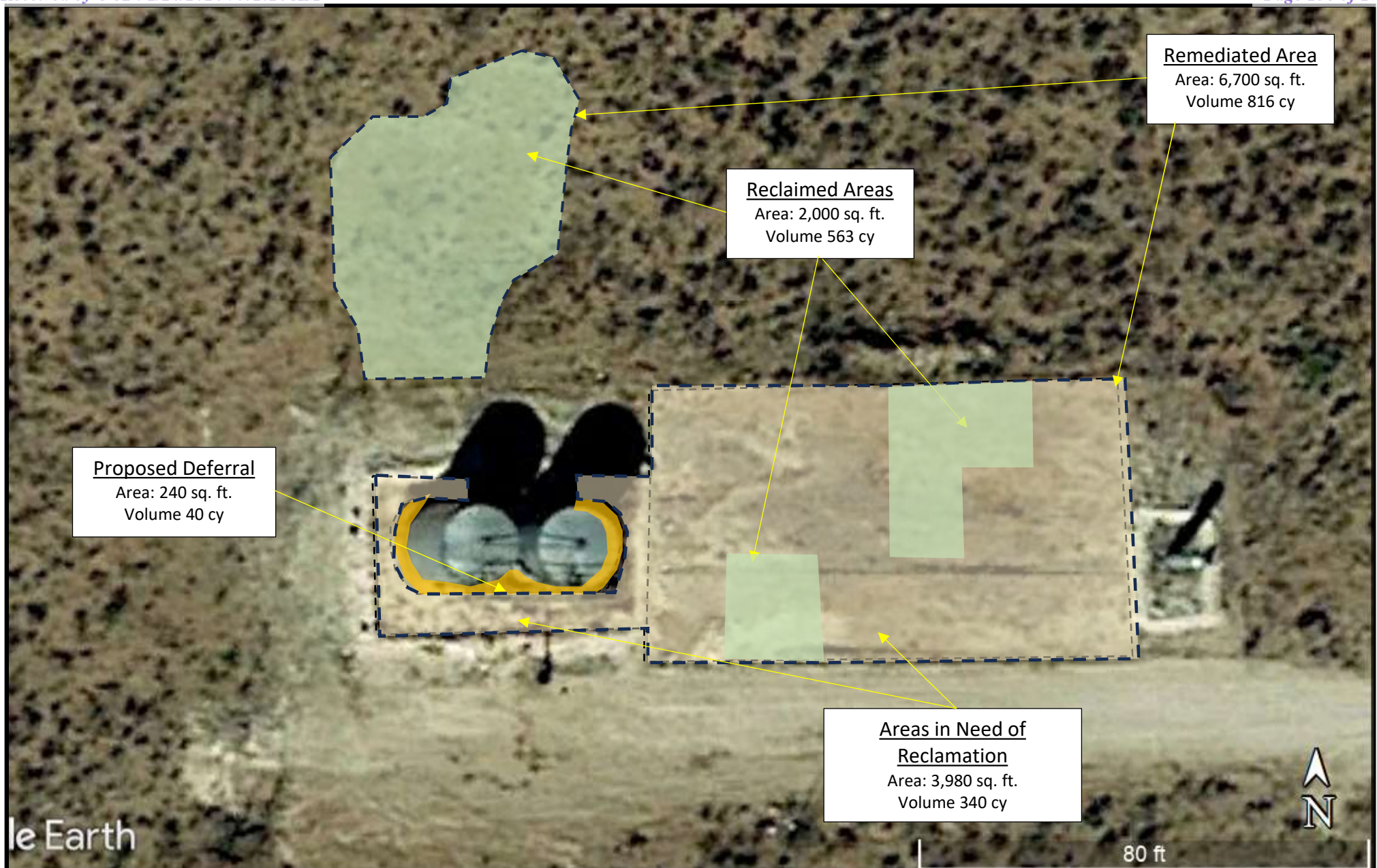


Photographic Log

Photo Number: 8	<div>Aug 25, 2023 at 1:17:48 PM +32.459173,-103.137173 Eunice NM 88231 United States</div> 
Photo Direction: East	
Photo Description: View of the affected pasture area after backfilling activities.	

Appendix E

Electronic C-141 Supplemental Documentation



Legend:

- Sample Point
- Remediated Area
- Reclaimed Area
- Area in Need of Reclamation
- Proposed Deferral

Figure 6

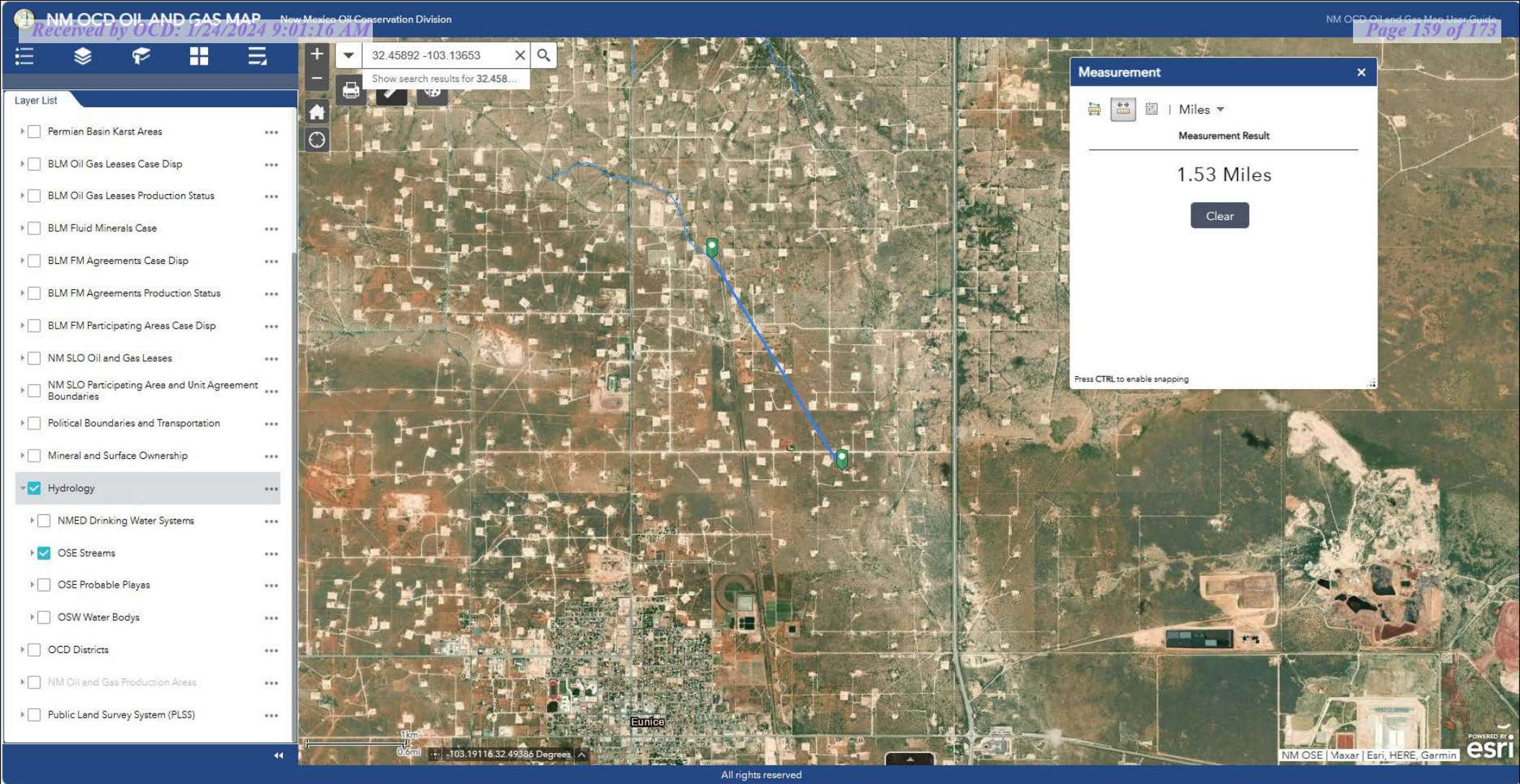
Remediation, Reclamation and Deferral Map
The Eastland Oil Company
Sarkey Tank Battery
GPS: 32.45892, -103.13653
Lea County

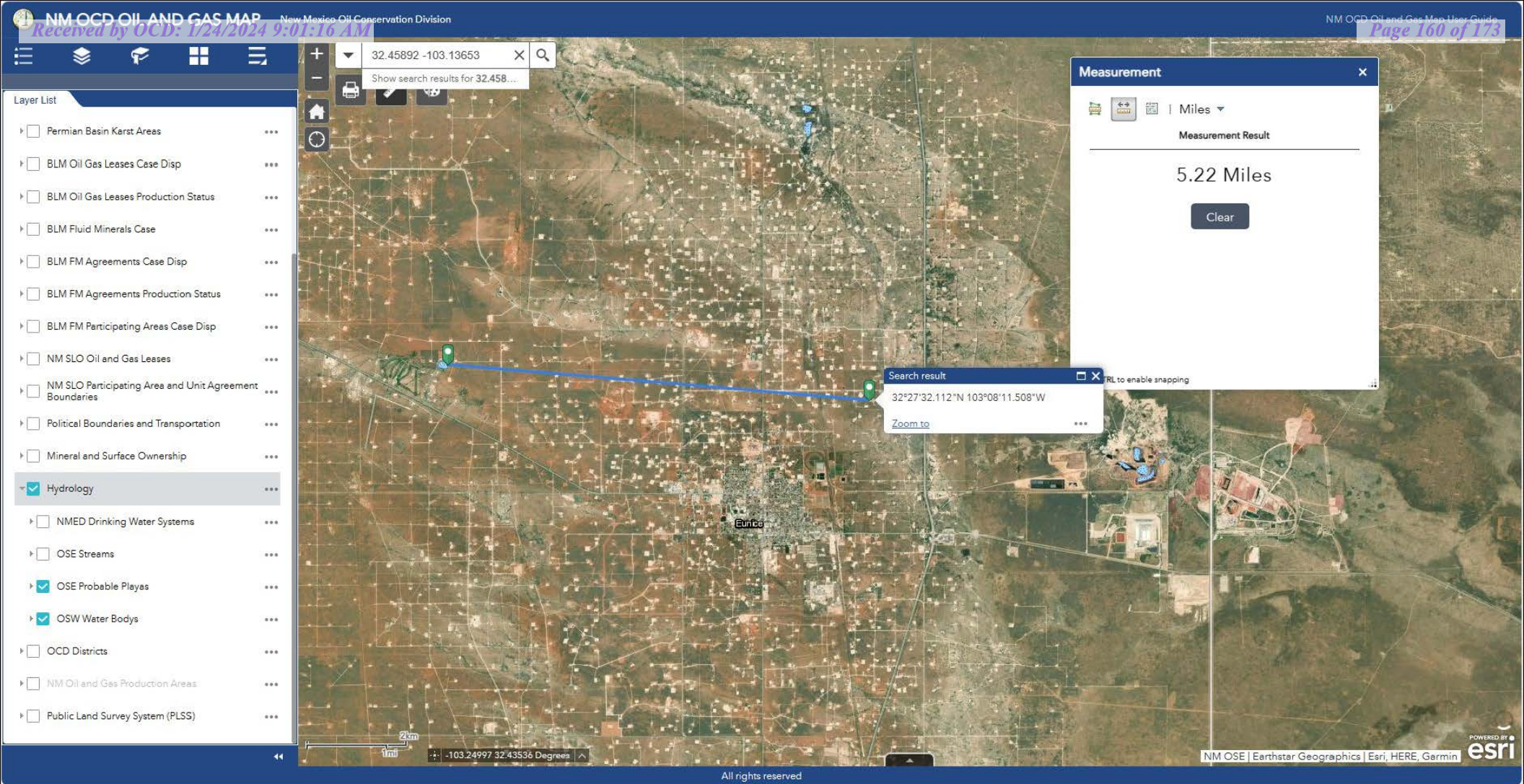


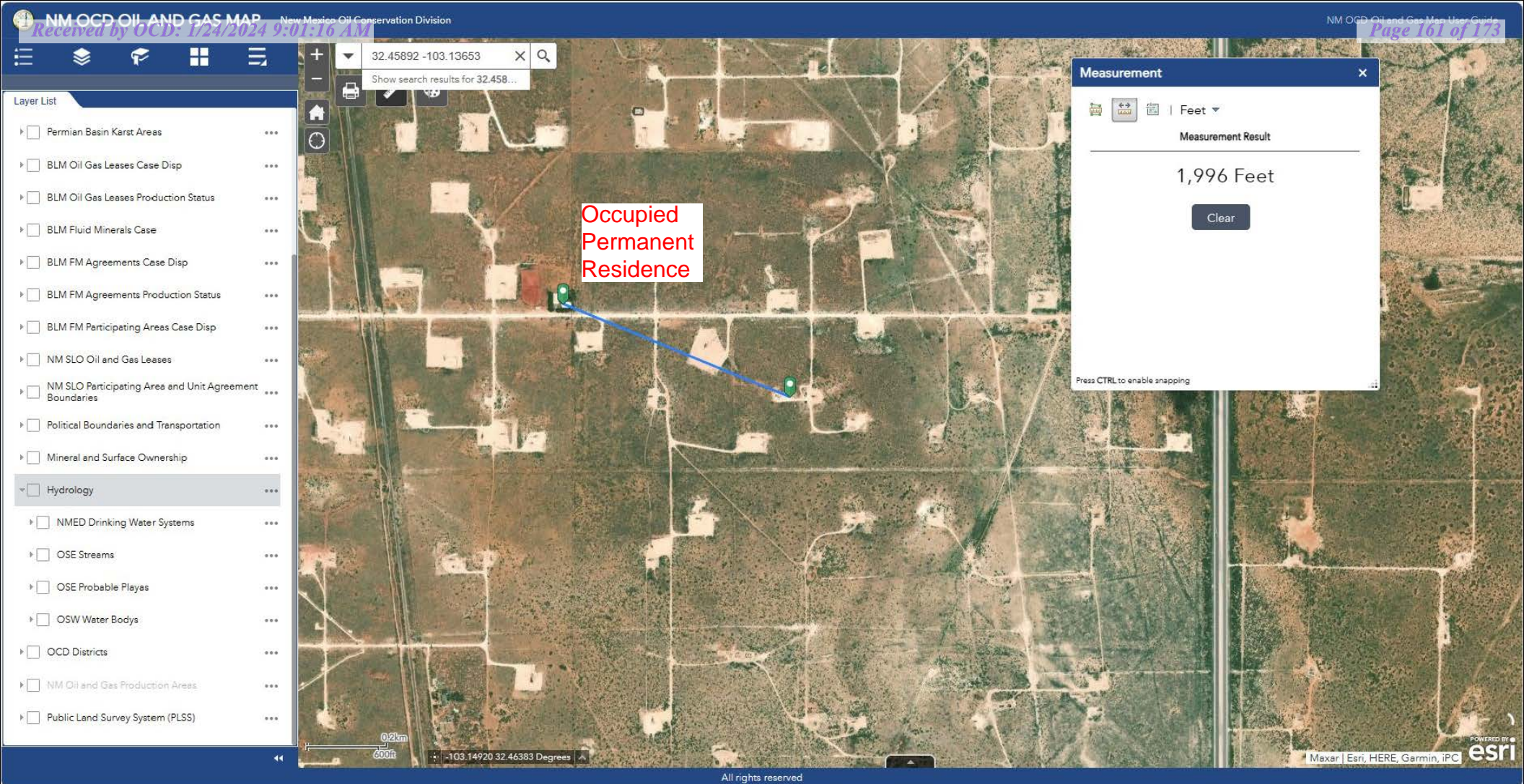
Drafted: kap

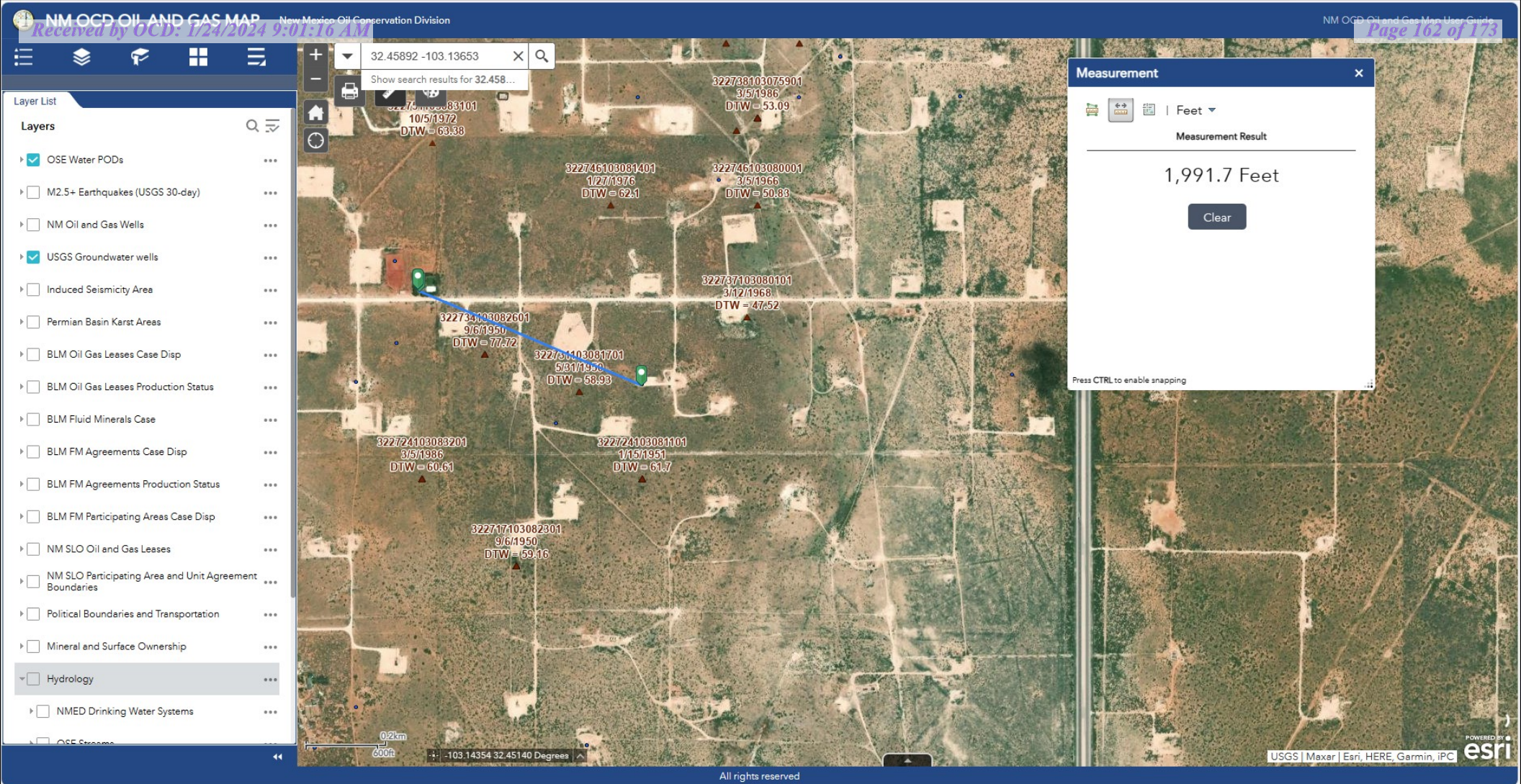
Checked: jwl

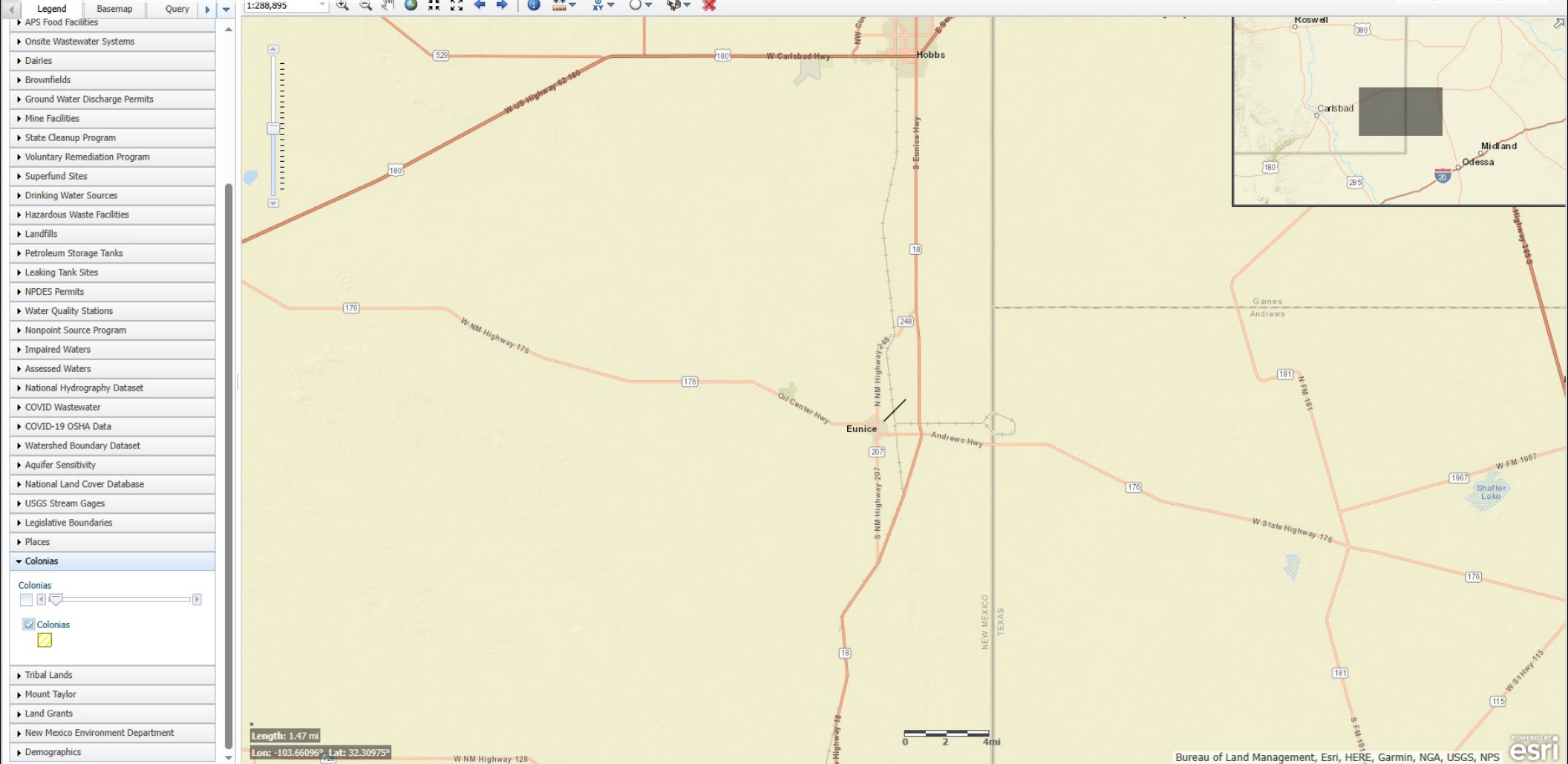
Date: 12/21/23

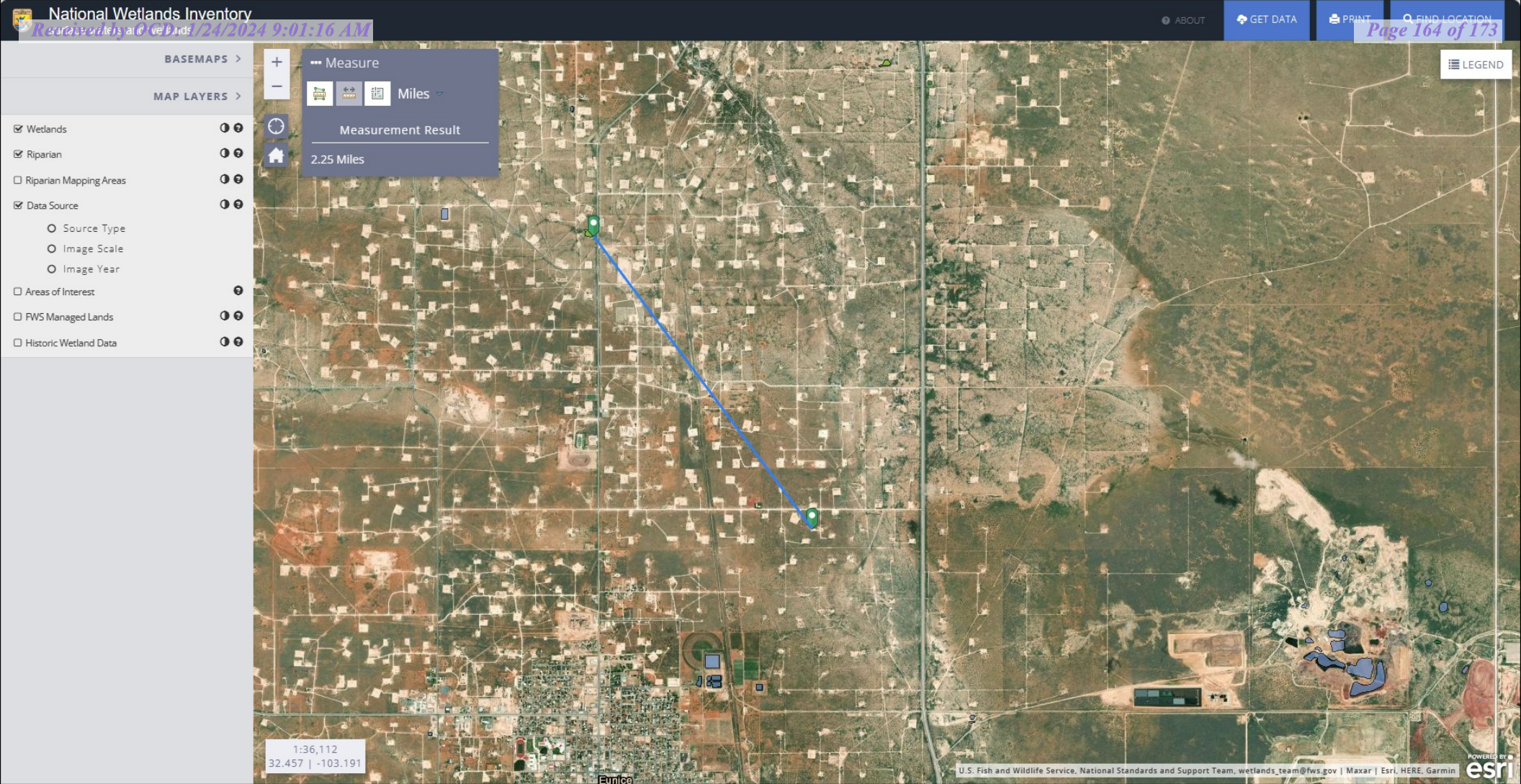












Search

Received by OGD: 1/24/2024 9:01:16 AM

32.45892, -103.13653

Get Directions History

32.45892, -103.13653

▼ Places

BH 18

BH 12

BH 13

BH 19

BH 20

Mine Workings

Intrepid Potash

Intrepid Potash

Intrepid Potash

Intrepid Potash

Intrepid Potash

Mosaic Potash

Mosaic Potash

Mosaic Potash

Amax Potash

Amax Potash

mine

▼ Layers

Primary Database

Announcements

Borders and Labels

Places

Photos

Roads

3D Buildings

Weather

Gallery

More

Terrain

5/2020

North Hobbs

Hobbs

Monument

Oil Center

Sarkey Battery

Eunice

Image Landsat / Copernicus

Google Earth

lat 32.503036° lon -103.284409° elev 0 ft eye alt 51.32 mi

Ruler

Line Path Polygon Circle 3D path 3D polygon

Measure the distance between two points on the ground

Map Length: 35.06 Miles

Ground Length: 35.06

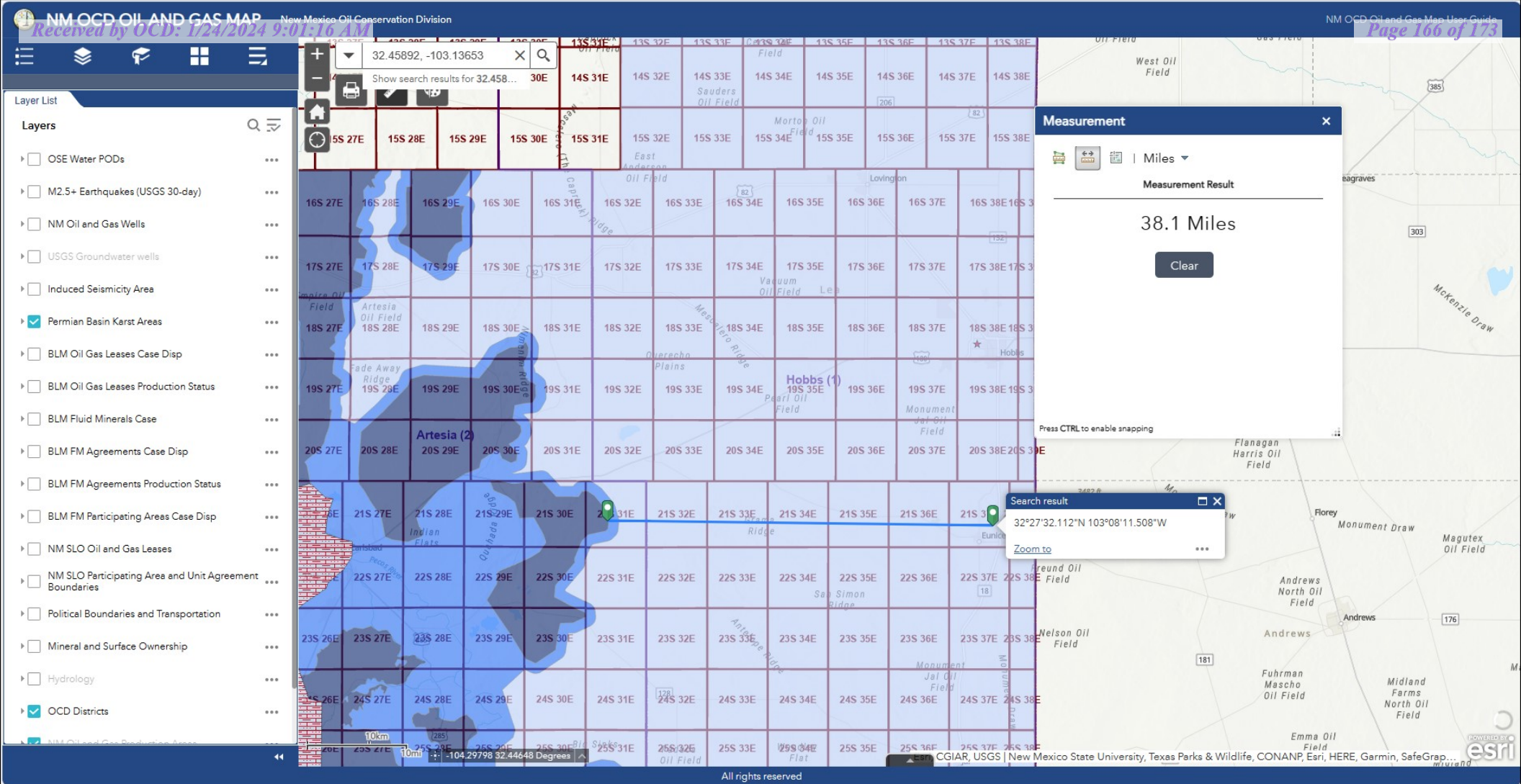
Heading: 89.69 degrees

☐ Mouse Navigation

Save

Clear

Released to Imaging: 3/29/2024 7:58:24 AM



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

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

QUESTIONS

Action 307119

QUESTIONS

Operator: EASTLAND OIL CO P.O. Box 3488 Midland, TX 79702	OGRID: 22767
	Action Number: 307119
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2207654154
Incident Name	NAPP2207654154 SARKEYS @ 30-025-22211
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-025-22211] SARKEYS #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SARKEYS
Date Release Discovered	10/28/2021
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Production Tank Crude Oil Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

QUESTIONS, Page 2

Action 307119

QUESTIONS (continued)

Operator: EASTLAND OIL CO P.O. Box 3488 Midland, TX 79702	OGRID:	22767
	Action Number:	307119
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Yesenia Rubio Title: Engineering Tech Email: yrubio@eastlandoil.com Date: 01/24/2024
--	---

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

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

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

QUESTIONS, Page 3

Action 307119

QUESTIONS (continued)

Operator: EASTLAND OIL CO P.O. Box 3488 Midland, TX 79702	OGRID:	22767
	Action Number:	307119
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	320
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	19400
GRO+DRO (EPA SW-846 Method 8015M)	14100
BTEX (EPA SW-846 Method 8021B or 8260B)	4.9
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	01/28/2022
On what date will (or did) the final sampling or liner inspection occur	01/28/2022
On what date will (or was) the remediation complete(d)	08/25/2023
What is the estimated surface area (in square feet) that will be reclaimed	6920
What is the estimated volume (in cubic yards) that will be reclaimed	1040
What is the estimated surface area (in square feet) that will be remediated	6760
What is the estimated volume (in cubic yards) that will be remediated	816

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

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

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QUESTIONS, Page 4

Action 307119

QUESTIONS (continued)

Operator: EASTLAND OIL CO P.O. Box 3488 Midland, TX 79702	OGRID:
	22767
	Action Number:
	307119
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	SUNDANCE PARABO [FEEM0112334085]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Yesenia Rubio Title: Engineering Tech Email: yrubio@eastlandoil.com Date: 01/24/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 307119

QUESTIONS (continued)

Operator: EASTLAND OIL CO P.O. Box 3488 Midland, TX 79702	OGRID:	22767
	Action Number:	307119
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

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

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Impacted soil affected above the NM OCD closure criteria is limited to close proximity to the onsite tanks. Further excavation poses safety risk or would result in a major facility deconstruction. The impact remaining in-situ have been characterized and will be remediated at time of abandonment.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	240
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	40
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	SARKEYS #1 [fAPP2401727505]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Yesenia Rubio Title: Engineering Tech Email: yrubio@eastlandoil.com Date: 01/24/2024

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QUESTIONS, Page 6

Action 307119

QUESTIONS (continued)

Operator: EASTLAND OIL CO P.O. Box 3488 Midland, TX 79702	OGRID:
	22767
	Action Number:
	307119
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	298792
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/28/2022
What was the (estimated) number of samples that were to be gathered	35
What was the sampling surface area in square feet	6700

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 307119

CONDITIONS

Operator: EASTLAND OIL CO P.O. Box 3488 Midland, TX 79702	OGRID:
	22767
	Action Number:
	307119
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	3/29/2024