

Incident ID	nAPP2225627853
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>~130</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2225627853
District RP	
Facility ID	
Application ID	

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

Printed Name: Meredith O'Brien Title: Sr. Environmental Engineer

Signature: Meredith O'Brien Date: 2/14/2023

email: mobrien@legacyreserves.com Telephone: (720) 327-1543

**OCD Only**

Received by: Jocelyn Harimon Date: 02/16/2023

Incident ID	nAPP2225627853
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Meredith O'Brien Title: Sr. Environmental Engineer

Signature: Meredith O'Brien Date: 2/14/2023

email: mobrien@legacyreserves.com Telephone: (720) 327-1543

**OCD Only**

Received by: Jocelyn Harimon Date: 02/16/2023

- Approved     
 Approved with Attached Conditions of Approval     
 Denied     
 Deferral Approved

Signature: Jennifer Nobui Date: 02/28/2023

# Site Assessment Summary & Deferral Request

## Legacy Reserves Operating, LP Cooper Jal Unit #128

Lea County, New Mexico  
Unit Letter G, Section 24, Township 24 South, Range 36 East  
Latitude 32.205361 North, Longitude 103.213569 West  
NMOCD Reference No. nAPP2225627853

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
2617 W. Marland  
Hobbs, New Mexico 88240



Zach Conder



Midland • San Antonio • Lubbock • Hobbs • Lafayette

## TABLE OF CONTENTS

	<i>Section</i>
PROJECT INFORMATION.....	<b>1.0</b>
SITE CHARACTERIZATION.....	<b>2.0</b>
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	<b>3.0</b>
SITE ASSESSMENT SUMMARY.....	<b>4.0</b>
RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN.....	<b>5.0</b>
DEFERRAL REQUEST.....	<b>6.0</b>
LIMITATIONS.....	<b>7.0</b>
DISTRIBUTION.....	<b>8.0</b>

### FIGURES

- Figure 1 - Topographic Map
- Figure 2 - Aerial Proximity Map
- Figure 3 - Site and Sample Location Map

### TABLES

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

### APPENDICES

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

### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Legacy Reserves Operating, LP, has prepared this *Site Assessment Summary & Deferral Request* for the release site known as the Cooper Jal Unit #128 (henceforth, "Site"). Details of the release are summarized below:

<b>Location of Release Source</b>			
Latitude: <u>32.205361</u>		Longitude: <u>-103.213569</u>	
Provided GPS are in WGS84 format.			
Site Name: <u>Cooper Jal Unit #128</u>		Site Type: <u>Tank Battery</u>	
Date Release Discovered: <u>9/10/2022</u>		API # (if applicable): <u>30-025-11151</u>	
Unit Letter	Section	Township	Range
G	24	24S	36E
		County	
		Lea	
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private (Name <u>R R R Land &amp; Cattle Company</u> )			
<b>Nature and Volume of Release</b>			
<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>7 bbls</u>	Volume Recovered (bbls) <u>7 bbls</u>	
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered	
Cause of Release: <u>Flowline leak inside of firewall at battery.</u>			
<b>Initial Response</b>			
<input checked="" type="checkbox"/> The source of the release has been stopped.			
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.			
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices			
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.			

Previously submitted portions of the 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?	~130 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 type="checkbox"/> Yes	<input checked="" 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.

## 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	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
~130 Feet	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

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

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

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

#### 4.0 SITE ASSESSMENT SUMMARY

Between November 30 and December 1, 2022, Etech conducted an initial site assessment. During the initial site assessment, six (6) hand-augered soil bores (V 1, V 2, V 3, V 4, V 5, and V 6) were advanced within the release margins in an effort to determine the vertical extent of soil impacts. A resistance layer was met at five (5) feet below ground surface (bgs) at soil bore location V 2, making In the course of advancing the hand-augered soil bores, thirteen (13) delineation soil samples (V 1 @ 0', V 1 @ 1', V 2 @ 2', V 2 @ 5' - R, V 3 @ 0', V 3 @ 3', V 4 @ 0', V 4 @ 1', V 5 @ 0', V 5 @ 4', V 6 @ 0', and V 6 @ 2') were collected from the soil bores and field-screened for concentrations of TPH with visual/olfactory observations and chloride utilizing a Hach Quantab® chloride test kit. The collected soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated concentrations of BTEX ranged from below the laboratory method detection limit (MDL) in soil sample V 3 @ 3' to 247 mg/kg in soil sample V 2 @ 0'. Analytical results indicated TPH concentrations ranged from below the laboratory MDL in soil sample V 6 @ 2' to 62,200 mg/kg in soil sample in soil sample V 6 @ 0'. Chloride concentrations were below the NMOCD Closure Criterion in all of the submitted soil samples. Delineation at soil bore location V 2 was not achieved due to a resistance layer being met at five (5) feet below ground surface (bgs), which made further advancement by non-mechanical means impractical.

In addition, Etech collected twelve (12) horizontal delineation soil samples (EH 1 @ 0', EH 1 @ 1', NH 1 @ 0', NH 1 @ 1', NH 2 @ 0', NH 2 @ 1', SH 1 @ 0', SH 1 @ 1', SH 2 @ 0', SH 2 @ 1', WH 1 @ 0' and WH 1 @ 1') were collected from the soil bores and field-screened for concentrations of TPH with visual/olfactory observations and chloride utilizing a Hach Quantab® chloride test kit. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in all of the submitted soil samples. Based on these laboratory analytical results, the horizontal extent of impacted soil was adequately defined.

A "Site and Sample Location Map" is provided as Figure 3. Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided as Appendix B. Laboratory analytical reports are provided as Appendix C.

#### 5.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

The release was limited to the production pad inside an active tank battery. Final remediation, reclamation, and revegetation will be conducted upon decommissioning and abandonment of the facility.

#### 6.0 DEFERRAL REQUEST

On December 30, 2022, Etech returned to the site to continue the initial assessment. A backhoe was utilized to advance a delineation trench in the area characterized by sample location V 2 in an effort to further investigate the vertical extent of soil impacts. During the advancement of the delineation trench, an unmarked electrical line was struck, creating a situation which was immediately dangerous to life and health. Additional unmarked, high-voltage electrical lines were discovered during a subsequent inspection of the trench and adjacent area.

Further delineation and/or excavation of the area characterized by sample location V 2 poses a significant safety risk and would require a major facility deconstruction. As there is no vegetation or shallow groundwater present at the Site that would be affected, pursuant to Section 19.15.29.12.C(2) NMAC, leaving the contamination in-situ "does not cause an imminent risk to human health, the environment, or ground water".

Laboratory analytical results from delineation soil samples indicate concentrations of chloride are below the applicable NMOCD Closure Criteria. Remediation of BTEX and TPH-impacted soil affected above the NMOCD Closure Criteria remaining in-situ in the deferral area will be completed upon decommissioning and abandonment of the tank battery facility, in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC.

Locations of the proposed deferral areas are depicted on Figure 3. A photographic log is provided as Appendix D.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Legacy Reserves Operating, LP, provide copies of this *Site Assessment Summary & Deferral Request* to the appropriate agencies and request deferral be granted to the Cooper Jal Unit #128.

## **7.0 LIMITATIONS**

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Summary & 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 Legacy Reserves Operating, LP. Use of the information contained in this report is prohibited without the consent of Etech and/or Legacy Reserves Operating, LP.

## **8.0 DISTRIBUTION**

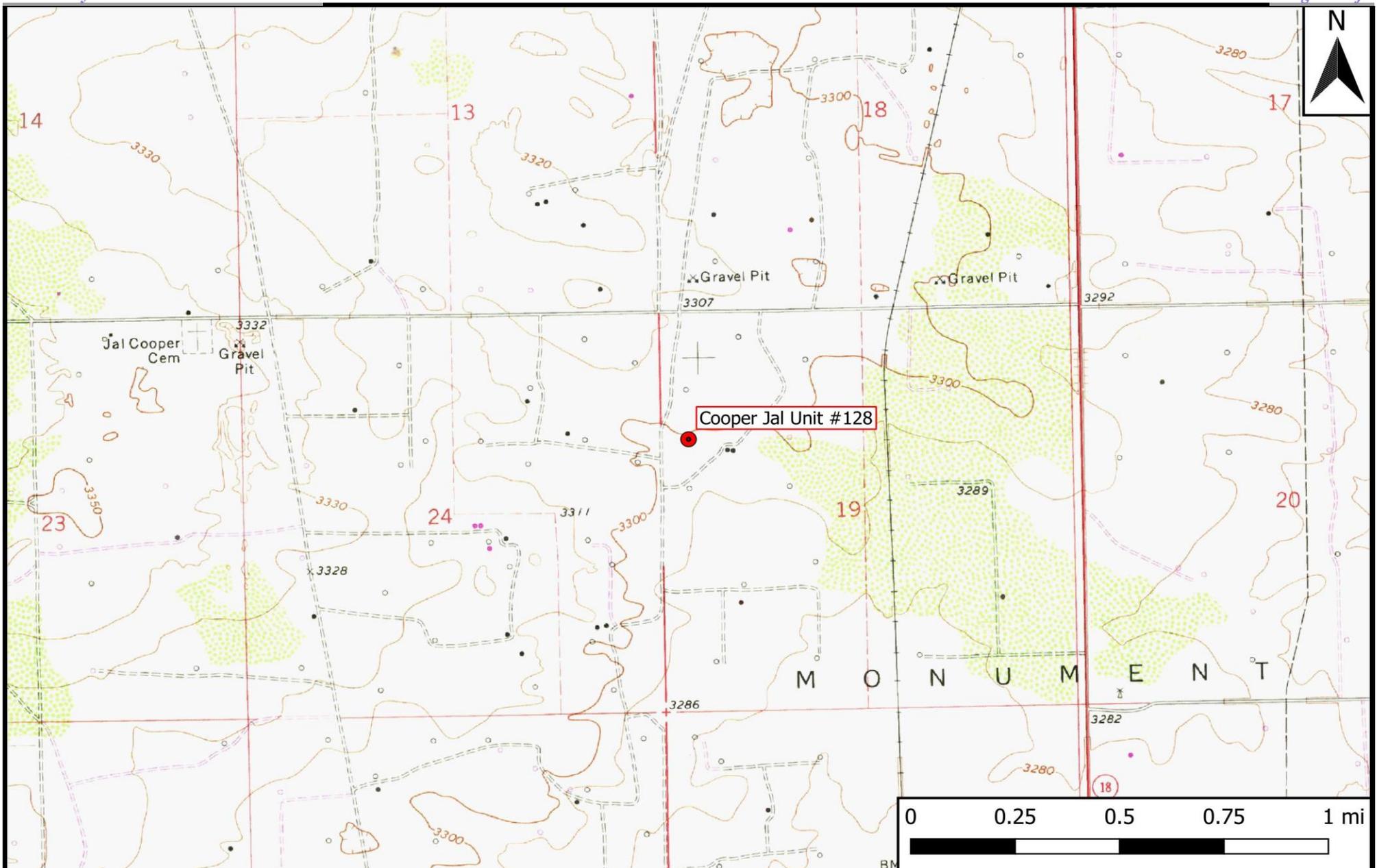
***Legacy Reserves Operating, LP***  
303 W. Wall St.  
Midland, TX 79701

***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

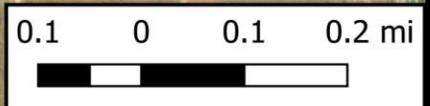
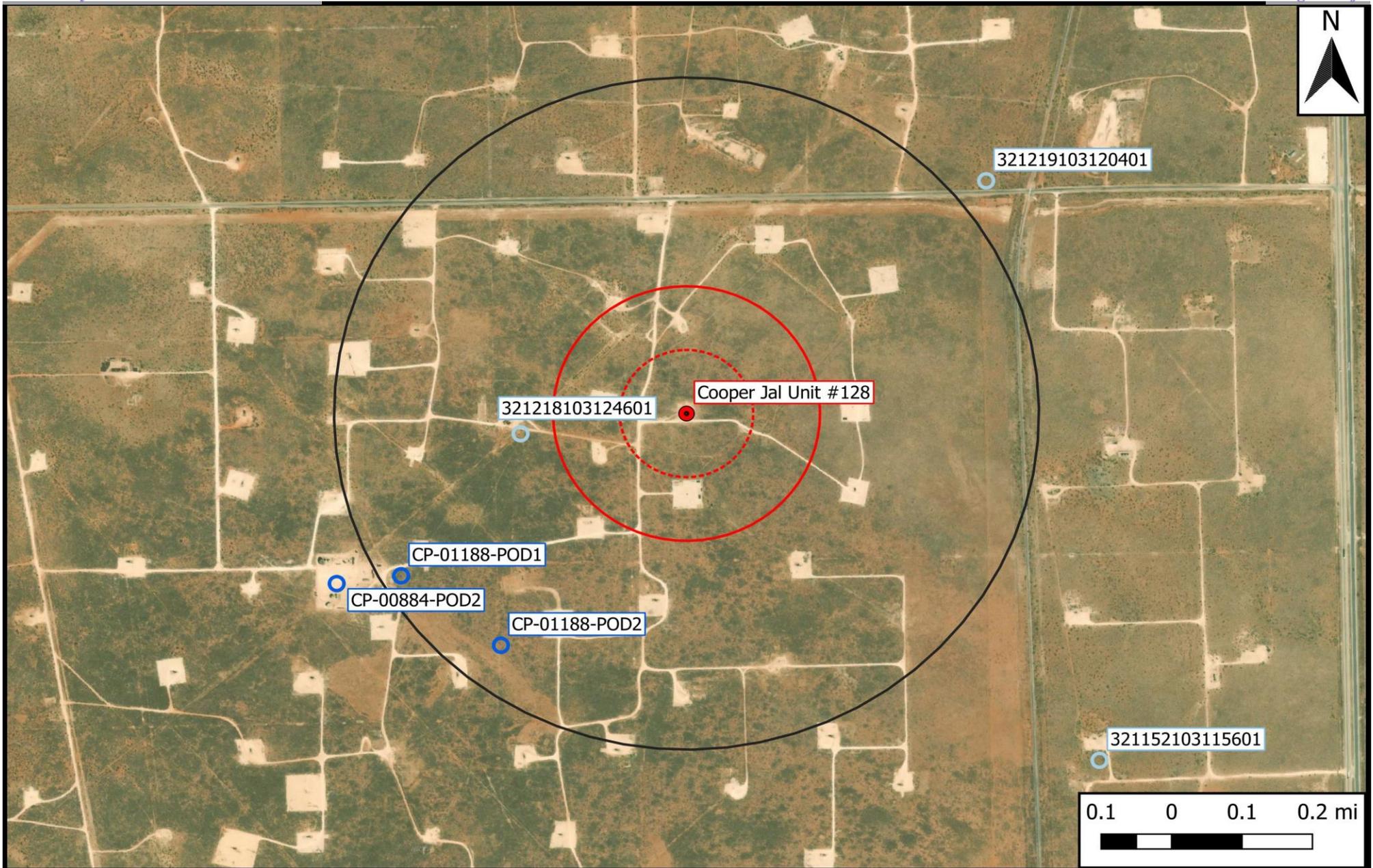
**Figure 1**  
 Topographic Map  
 Legacy Reserves Operating, LP  
 Cooper Jal Unit #128  
 GPS: 32.205502, -103.20921  
 Lea County

**eTECH**  
 Environmental & Safety Solutions, Inc.

Drafted: mag    Checked: jwl    Date: 11/18/22

## **Figure 2**

### **Aerial Proximity Map**



Legend	
<span style="color: red;">●</span> Site Location	<span style="border: 1px dashed red; padding: 2px;"> </span> 500 Ft Radius
<span style="border: 1px solid blue; border-radius: 50%; padding: 2px;"> </span> Well - NMOSE	<span style="border: 1px solid red; padding: 2px;"> </span> 1000 Ft Radius
<span style="border: 1px solid lightblue; border-radius: 50%; padding: 2px;"> </span> Well - USGS	<span style="border: 1px solid black; padding: 2px;"> </span> 0.5 Mi Radius
<span style="border-bottom: 1px solid orange; width: 20px; display: inline-block;"></span> Potash Mine Workings	<span style="background-color: lightblue; width: 20px; height: 10px; display: inline-block;"></span> 1% Annual Flood Chance
<span style="background-color: pink; width: 20px; height: 10px; display: inline-block;"></span> Medium/High Karst	<span style="background-color: blue; width: 20px; height: 10px; display: inline-block;"></span> Lake/Freshwater Pond
	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span> Emergent/Forested Wetlands
	<span style="background-color: cyan; width: 20px; height: 10px; display: inline-block;"></span> Riverine

**Figure 2**  
 Aerial Proximity Map  
 Legacy Reserves Operating, LP  
 Cooper Jal Unit #128  
 GPS: 32.205502, -103.20921  
 Lea County



Drafted: mag      Checked: jwl      Date: 11/18/22

## **Figure 3**

### **Site and Sample Location Map**



Google Earth

**Legend:**

- Sample Point
- Horizontal Sample Point
- Release Area
- Proposed Deferral Area

**Figure 3**  
 Site and Sample Location Map  
 Legacy Reserves Operating, LP  
 Cooper Jal Unit #128  
 GPS: 32.205361, -103.213569  
 Lea County


  
**Environmental & Safety Solutions, Inc.**

Drafted: ZPC      Checked: ZPC      Date: 2/2/23

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

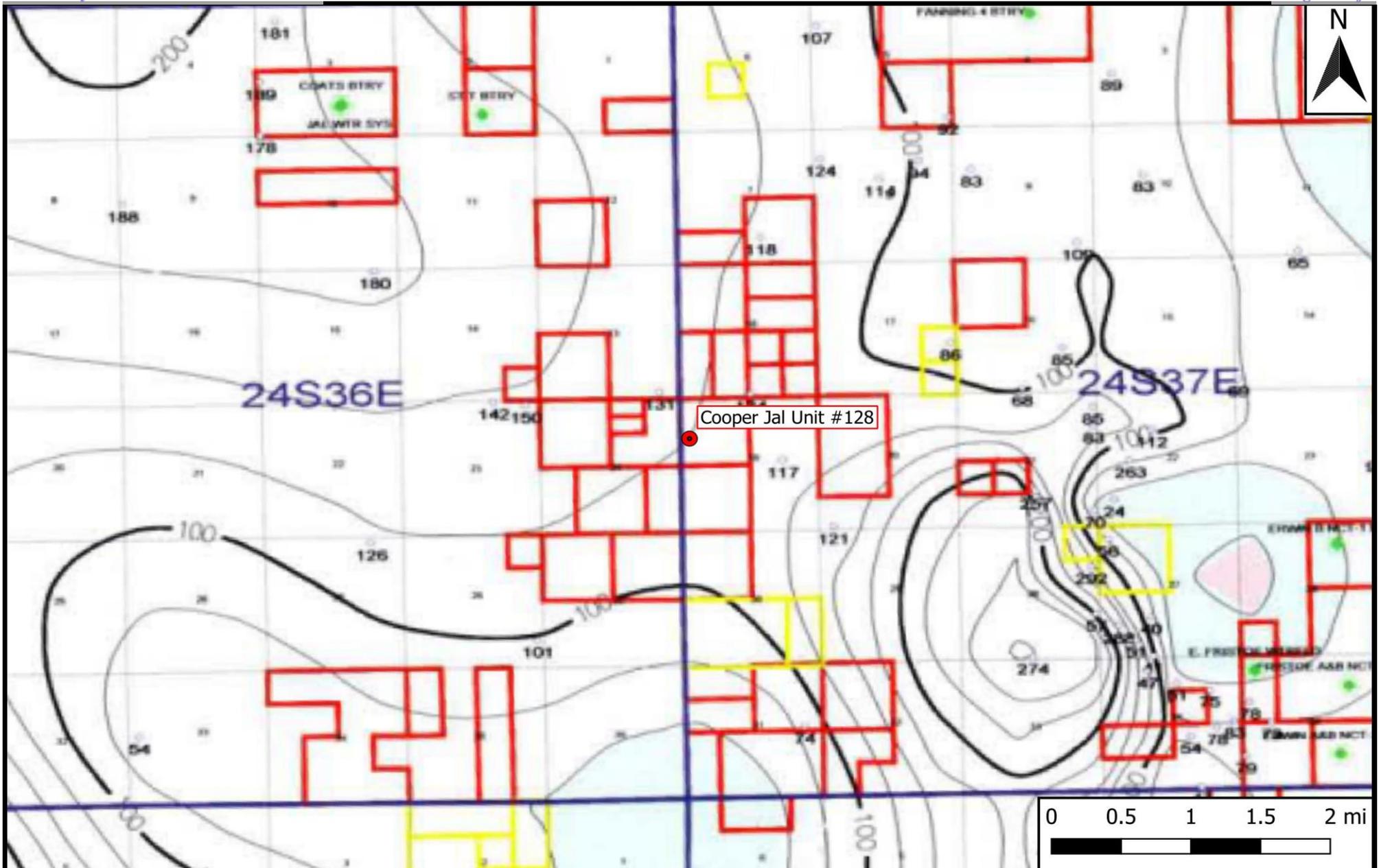
Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Legacy Reserves Operating, LP Cooper Jal Unit #128 NMOCD Ref. #: nAPP2225627853											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
EH 1 @ 0'	12/1/2022	0	In-Situ	<0.050	<0.300	<10.0	20.8	20.8	<10.0	20.8	2,200
EH 1 @ 1'	12/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	992
NH 1 @ 0'	12/1/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 1 @ 1'	12/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH 2 @ 0'	12/1/2022	0	In-Situ	<0.050	<0.300	<10.0	665	665	188	853	2,200
NH 2 @ 1'	12/1/2022	1	In-Situ	<0.050	<0.300	<10.0	12.3	12.3	<10.0	12.3	624
SH 1 @ 0'	12/1/2022	0	In-Situ	<0.050	<0.300	<10.0	432	432	181	613	176
SH 1 @ 1'	12/1/2022	1	In-Situ	<0.050	<0.300	<10.0	50.0	50.0	41.5	91.5	752
SH 2 @ 0'	12/1/2022	0	In-Situ	<0.050	<0.300	<10.0	10.9	10.9	<10.0	10.9	6,240
SH 2 @ 1'	12/1/2022	1	In-Situ	<0.050	<0.300	<10.0	544	544	346	890	1,840
WH 1 @ 0'	12/1/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WH 1 @ 1'	12/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
V 1 @ 0'	11/30/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
V 1 @ 1'	11/30/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
V 2 @ 0'	11/30/2022	0	In-Situ	2.36	<b>247</b>	3,280	9,900	<b>13,200</b>	2,030	<b>15,200</b>	832
V 2 @ 2'	11/30/2022	2	In-Situ	0.327	31.4	547	3,140	<b>3,690</b>	934	<b>4,620</b>	1,340
V 2 @ 5' - R	12/1/2022	5	In-Situ	0.124	<b>60.8</b>	1,450	11,100	<b>12,600</b>	3,070	<b>15,600</b>	784
V 3 @ 0'	11/30/2022	0	In-Situ	0.132	13.8	70.0	1,980	<b>2,050</b>	700	<b>2,750</b>	6,000
V 3 @ 3'	11/30/2022	3	In-Situ	<0.050	<0.300	<10.0	86.7	86.7	32.6	119	1,040
V 4 @ 0'	11/30/2022	0	In-Situ	0.426	<b>74.4</b>	377	3,900	<b>4,280</b>	1,010	<b>5,290</b>	720
V 4 @ 1'	11/30/2022	1	In-Situ	<0.050	0.421	<10.0	207	207	107	314	2,600
V 5 @ 0'	11/30/2022	0	In-Situ	<0.050	0.837	<50.0	1,140	<b>1,140</b>	569	1,710	1,840
V 5 @ 4'	11/30/2022	4	In-Situ	<0.050	0.372	<10.0	358	358	121	479	608
V 6 @ 0'	12/1/2022	0	In-Situ	0.233	<b>84.9</b>	6,210	46,500	<b>52,700</b>	9,440	<b>62,200</b>	1,120
V 6 @ 2'	12/1/2022	2	In-Situ	<0.050	0.400	<10.0	<10.0	<20.0	<10.0	<30.0	464

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

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

# Appendix A

## Depth to Groundwater Information



Legend

- Site Location

**Figure 4**  
 Inferred Depth to Groundwater Trend Map  
 Legacy Reserves Operating, LP  
 Cooper Jal Unit #128  
 GPS: 32.205502, -103.20921  
 Lea County

**eTECH**  
 Environmental & Safety Solutions, Inc.

Drafted: mag    Checked: jwl    Date: 11/18/22



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 01188 POD2</a>	CP	LE	3	2	4	24	24S	36E	668359	3564067		696	171	134	37
<a href="#">CP 01188 POD1</a>	CP	LE	2	1	4	24	24S	36E	668131	3564233		758	176	136	40

Average Depth to Water: **135 feet**

Minimum Depth: **134 feet**

Maximum Depth: **136 feet**

**Record Count:** 2

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

**Easting (X):** 668783.29

**Northing (Y):** 3564620.46

**Radius:** 804.67

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.

11/18/22 12:16 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)					(NAD83 UTM in meters)		
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	CP 01188 POD1	2	1	4	24	24S	36E	668131	3564233

**Driller License:** 1271      **Driller Company:** (DUPLICATE) HARRISON & COOPER, INC.

**Driller Name:** KENNY COOPER

**Drill Start Date:** 09/30/2013      **Drill Finish Date:** 09/30/2013      **Plug Date:**

**Log File Date:** 08/29/2014      **PCW Rev Date:**      **Source:** Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:** 20 GPM

**Casing Size:** 4.00      **Depth Well:** 176 feet      **Depth Water:** 136 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	163	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	136	176

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.

11/18/22 12:17 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)					(NAD83 UTM in meters)		
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	CP 01188 POD2	3	2	4	24	24S	36E	668359	3564067

<b>Driller License:</b> 1271	<b>Driller Company:</b> (DUPLICATE) HARRISON & COOPER, INC.	
<b>Driller Name:</b> KENNY COOPER		
<b>Drill Start Date:</b> 09/30/2013	<b>Drill Finish Date:</b> 09/30/2013	<b>Plug Date:</b>
<b>Log File Date:</b> 08/29/2014	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 5 GPM
<b>Casing Size:</b> 4.00	<b>Depth Well:</b> 171 feet	<b>Depth Water:</b> 134 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	168	Sandstone/Gravel/Conglomerate

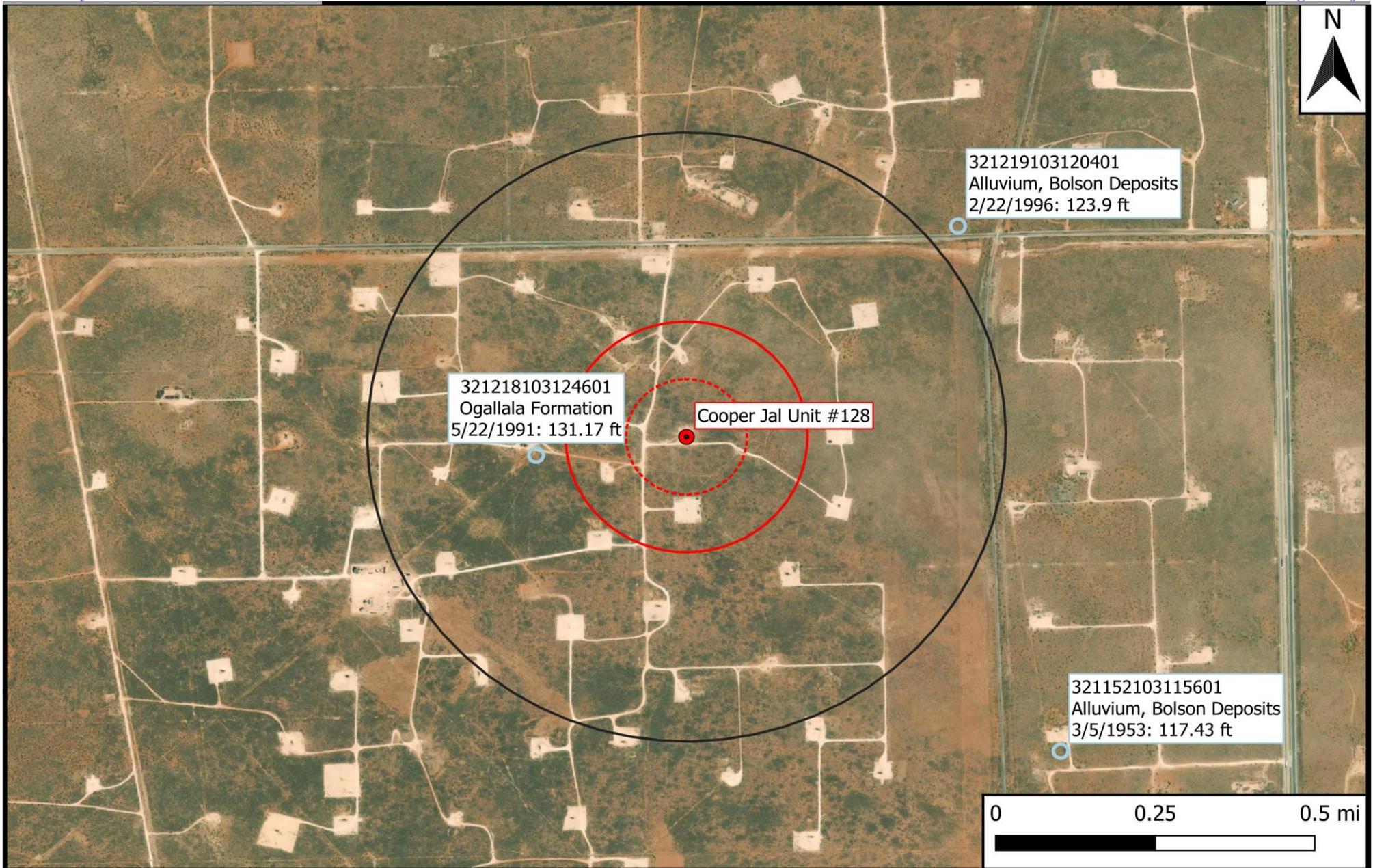
  

Casing Perforations:	Top	Bottom
	131	171

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.

11/18/22 12:17 PM

POINT OF DIVERSION SUMMARY



Legend	
<span style="color: red;">●</span>	Site Location
<span style="color: blue;">○</span>	Well - USGS
<span style="border: 1px dashed red; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span>	500 Ft Radius
<span style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span>	1000 Ft Radius
<span style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span>	0.5 Mi Radius

**Figure 5**  
 USGS Well Proximity Map  
 Legacy Reserves Operating, LP  
 Cooper Jal Unit #128  
 GPS: 32.205502, -103.20921  
 Lea County



**eTECH**  
 Environmental & Safety Solutions, Inc.



Drafted: mag    Checked: jwl    Date: 11/18/22



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click for News Bulletins

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321152103115601

Minimum number of levels = 1

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

### USGS 321152103115601 24S.37E.19.234442

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°11'52", Longitude 103°11'56" NAD27

Land-surface elevation 3,280 feet above NAVD88

The depth of the well is 160 feet below land surface.

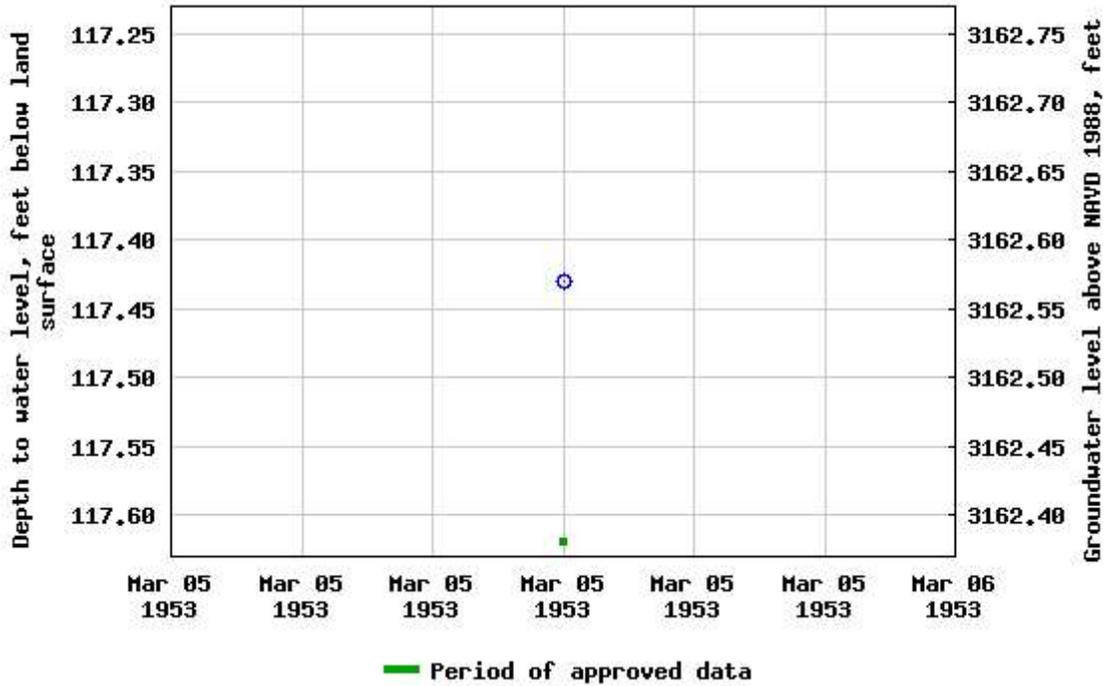
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

#### Output formats

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

USGS 321152103115601 24S,37E,19,234442



Breaks in the plot represent a gap of at least one year between field measurements.  
[Download a presentation-quality graph](#)

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
- [Explanation of terms](#)
- [Subscribe for system changes](#)
- [News](#)

[Accessibility](#)   
 [FOIA](#)   
 [Privacy](#)   
 [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-11-18 14:14:04 EST

0.58 0.48 nadww01



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click for News Bulletins

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321218103124601

Minimum number of levels = 1

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

### USGS 321218103124601 24S.36E.13.44342

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°12'18", Longitude 103°12'46" NAD27

Land-surface elevation 3,305 feet above NAVD88

The depth of the well is 151 feet below land surface.

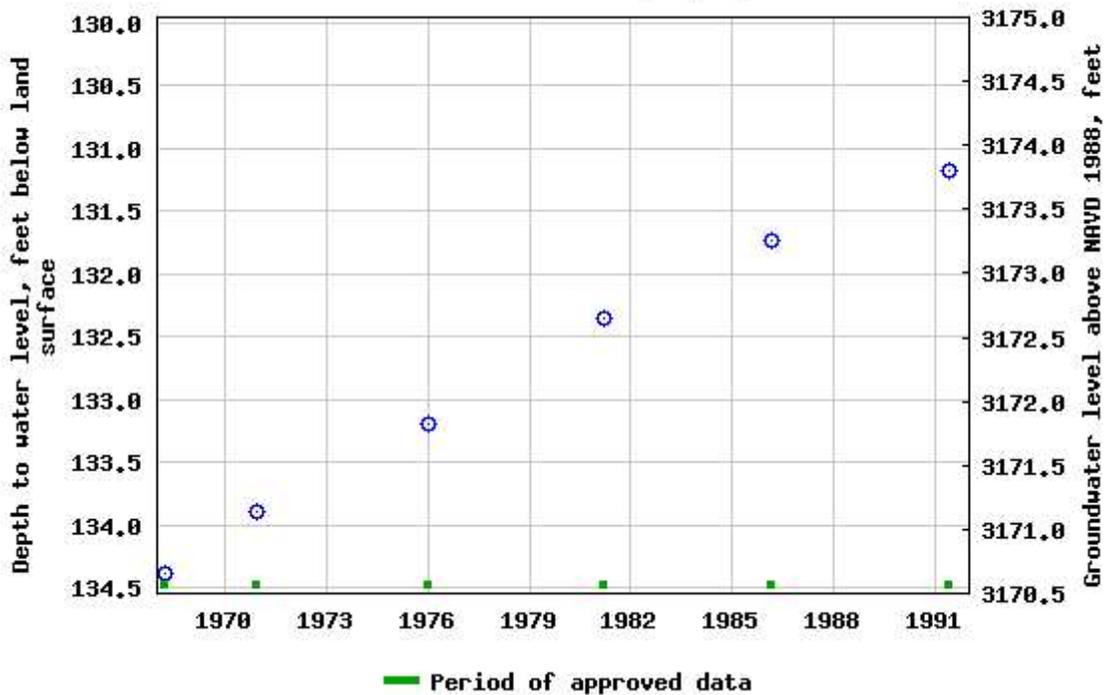
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

#### Output formats

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

USGS 321218103124601 245.36E,13.44342



Breaks in the plot represent a gap of at least one year between field measurements.  
[Download a presentation-quality graph](#)

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
- [Explanation of terms](#)
- [Subscribe for system changes](#)
- [News](#)

[Accessibility](#)   
 [FOIA](#)   
 [Privacy](#)   
 [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-11-18 14:14:05 EST

0.62 0.49 nadww01



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click for News Bulletins

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321219103120401

Minimum number of levels = 1

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

### USGS 321219103120401 24S.37E.18.433332

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°12'37", Longitude 103°12'05" NAD27

Land-surface elevation 3,302.10 feet above NGVD29

The depth of the well is 150 feet below land surface.

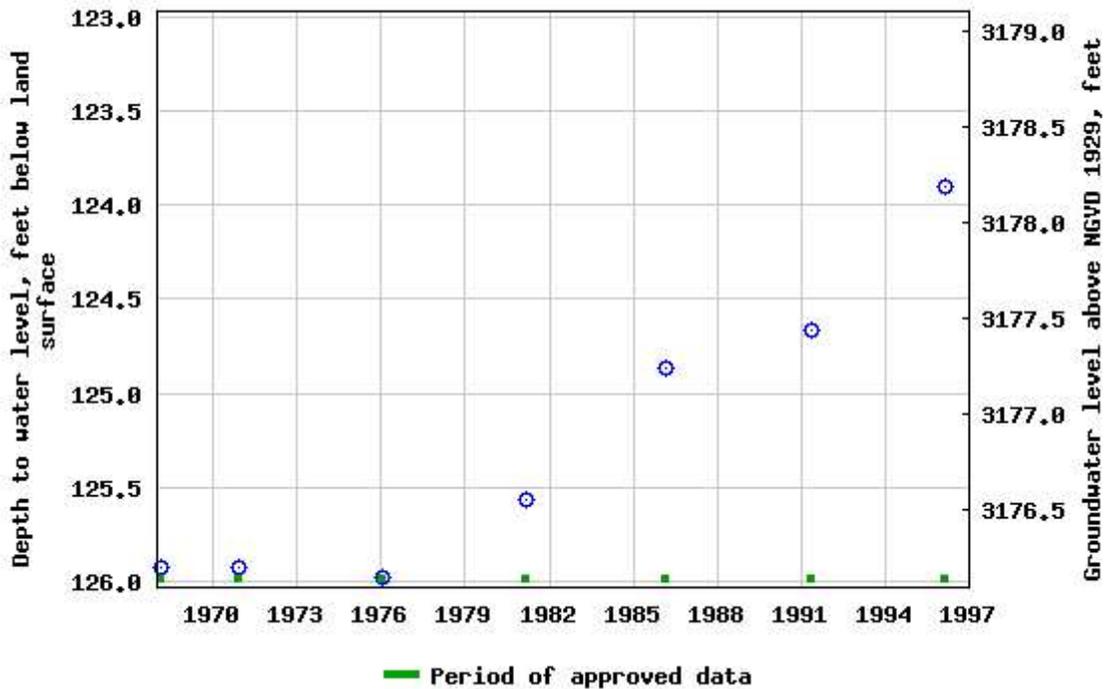
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

#### Output formats

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

USGS 321219103120401 24S,37E,18,433332



Breaks in the plot represent a gap of at least one year between field measurements.  
[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-11-18 14:14:05 EST

0.53 0.45 nadww01

## **Appendix B**

### **Field Data and Soil Profile Logs**



### Sample Log

Date: 1/30/22

Project: Cooper Jal Unit #128

Project Number: 17131

Latitude: 32.205361

Longitude: -103.213569

Sample ID	PID/Odor	Chloride Conc.		GPS
V1e0'	—	3.6	500	
V1e1'	—	4.2	660	
V2e0'	Yes	6.4	1900	
V2e2'	Yes	7.2	1968	
V3e0'	Y	9.4	>2444	6.4 7392
V3e1'	Y	9.0	>2444	5.4 5060
V4e0'	Y	5.8	1220	
V4e1'	Slight	7.8	2444	
V5e0'	Slight	7.4	2112	
V5e1'	Y	6.4	1500	
V2e4'-R	Y	3.4	452	
V3e2'	Y	7.8	2444	
V5e3'	<del>Y</del>	5.8	1220	
V5e2'	Slight	7.6	2272	
V5e3'	Slight	6.6	1604	
V5e4'	Slight	4.8	844	
12/1/22				12/1/22
SH1e0'	Slight	3.0	368	
SH1e1'	—	5.6	1132	
SH2e0'	—	9.4	>2444	6.8 8604
SH2e1'	Slight	7.2	1968	
NH1e0'	—	4.0	604	
NH1e1'	—	1.4	124	
NH2e0'	Slight	7.4	2112	
NH2e1'	—	4.8	844	
EH1e0'	Slight	7.4	2112	
EH1e1'	—	5.6	1138	new strips
EH2e0'	—	2.6	300	
EH2e1'	—	4.0	628	
V2e5'-R	Yes	6.0	1364	
V6e0'	Yes	5.8	1272	
V6e1'	Slight	6.0	1364	
V6e2'	—	4.0	628	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



### Soil Profile

Date: 11/30/22

Project: Cooper Jal Unit #128

Project Number: 17131 Latitude: 32.205361 Longitude: -103.213569

Depth (ft. bgs)

Description

1	Red Sand
2	
3	
4	Red Sand/Caliche
5	Caliche
6	Caliche
7	Caliche -
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

# **Appendix C**

## **Laboratory Analytical Reports**



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

---

December 08, 2022

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COOPER JAL UNIT #128

Enclosed are the results of analyses for samples received by the laboratory on 12/02/22 14:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 1 @ 0' (H225663-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2022	ND	2.15	108	2.00	1.26	
Toluene*	<0.050	0.050	12/05/2022	ND	2.15	107	2.00	1.64	
Ethylbenzene*	<0.050	0.050	12/05/2022	ND	2.11	105	2.00	0.280	
Total Xylenes*	<0.150	0.150	12/05/2022	ND	6.46	108	6.00	1.36	
Total BTEX	<0.300	0.300	12/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	48.0	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	203	102	200	5.98	
DRO >C10-C28*	<10.0	10.0	12/05/2022	ND	186	92.8	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 1 @ 1' (H225663-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2022	ND	2.15	108	2.00	1.26	
Toluene*	<0.050	0.050	12/05/2022	ND	2.15	107	2.00	1.64	
Ethylbenzene*	<0.050	0.050	12/05/2022	ND	2.11	105	2.00	0.280	
Total Xylenes*	<0.150	0.150	12/05/2022	ND	6.46	108	6.00	1.36	
Total BTEX	<0.300	0.300	12/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	256	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	203	102	200	5.98	
DRO >C10-C28*	<10.0	10.0	12/05/2022	ND	186	92.8	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 86.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.2 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 2 @ 0' (H225663-03)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.36</b>	1.00	12/06/2022	ND	2.15	108	2.00	1.26	
<b>Toluene*</b>	<b>42.6</b>	1.00	12/06/2022	ND	2.15	107	2.00	1.64	
<b>Ethylbenzene*</b>	<b>51.8</b>	1.00	12/06/2022	ND	2.11	105	2.00	0.280	
<b>Total Xylenes*</b>	<b>150</b>	3.00	12/06/2022	ND	6.46	108	6.00	1.36	
<b>Total BTEX</b>	<b>247</b>	6.00	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>832</b>	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>3280</b>	100	12/05/2022	ND	203	102	200	5.98	
<b>DRO &gt;C10-C28*</b>	<b>9900</b>	100	12/05/2022	ND	186	92.8	200	1.88	
<b>EXT DRO &gt;C28-C36</b>	<b>2030</b>	100	12/05/2022	ND					

Surrogate: 1-Chlorooctane 238 % 45.3-161

Surrogate: 1-Chlorooctadecane 204 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 2 @ 2' (H225663-04)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.327</b>	0.100	12/07/2022	ND	2.15	108	2.00	1.26	
<b>Toluene*</b>	<b>2.58</b>	0.100	12/07/2022	ND	2.15	107	2.00	1.64	
<b>Ethylbenzene*</b>	<b>12.0</b>	0.100	12/07/2022	ND	2.11	105	2.00	0.280	
<b>Total Xylenes*</b>	<b>16.6</b>	0.300	12/07/2022	ND	6.46	108	6.00	1.36	
<b>Total BTEX</b>	<b>31.4</b>	0.600	12/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 340 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1340</b>	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>547</b>	100	12/05/2022	ND	203	102	200	5.98	
<b>DRO &gt;C10-C28*</b>	<b>3140</b>	100	12/05/2022	ND	186	92.8	200	1.88	
<b>EXT DRO &gt;C28-C36</b>	<b>934</b>	100	12/05/2022	ND					

Surrogate: 1-Chlorooctane 146 % 45.3-161

Surrogate: 1-Chlorooctadecane 172 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 2 @ 5'-R (H225663-05)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.124</b>	0.100	12/06/2022	ND	2.15	108	2.00	1.26	
<b>Toluene*</b>	<b>5.13</b>	0.100	12/06/2022	ND	2.15	107	2.00	1.64	
<b>Ethylbenzene*</b>	<b>15.3</b>	0.100	12/06/2022	ND	2.11	105	2.00	0.280	
<b>Total Xylenes*</b>	<b>40.3</b>	0.300	12/06/2022	ND	6.46	108	6.00	1.36	
<b>Total BTEX</b>	<b>60.8</b>	0.600	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 389 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>784</b>	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1450</b>	100	12/05/2022	ND	203	102	200	5.98	
<b>DRO &gt;C10-C28*</b>	<b>11100</b>	100	12/05/2022	ND	186	92.8	200	1.88	
<b>EXT DRO &gt;C28-C36</b>	<b>3070</b>	100	12/05/2022	ND					

Surrogate: 1-Chlorooctane 185 % 45.3-161

Surrogate: 1-Chlorooctadecane 243 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 3 @ 0' (H225663-06)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.132</b>	0.050	12/06/2022	ND	2.15	108	2.00	1.26	
<b>Toluene*</b>	<b>2.19</b>	0.050	12/06/2022	ND	2.15	107	2.00	1.64	
<b>Ethylbenzene*</b>	<b>3.19</b>	0.050	12/06/2022	ND	2.11	105	2.00	0.280	
<b>Total Xylenes*</b>	<b>8.27</b>	0.150	12/06/2022	ND	6.46	108	6.00	1.36	
<b>Total BTEX</b>	<b>13.8</b>	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 198 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6000</b>	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>70.0</b>	50.0	12/05/2022	ND	203	102	200	5.98	
<b>DRO &gt;C10-C28*</b>	<b>1980</b>	50.0	12/05/2022	ND	186	92.8	200	1.88	
<b>EXT DRO &gt;C28-C36</b>	<b>700</b>	50.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 171 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 3 @ 3' (H225663-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.15	108	2.00	1.26	
Toluene*	<0.050	0.050	12/06/2022	ND	2.15	107	2.00	1.64	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.11	105	2.00	0.280	
<b>Total Xylenes*</b>	<b>0.150</b>	0.150	12/06/2022	ND	6.46	108	6.00	1.36	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1040</b>	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2022	ND	203	102	200	5.98	
<b>DRO &gt;C10-C28*</b>	<b>86.7</b>	10.0	12/06/2022	ND	186	92.8	200	1.88	
<b>EXT DRO &gt;C28-C36</b>	<b>32.6</b>	10.0	12/06/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 4 @ 0' (H225663-08)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.426</b>	0.100	12/06/2022	ND	2.15	108	2.00	1.26	
<b>Toluene*</b>	<b>10.5</b>	0.100	12/06/2022	ND	2.15	107	2.00	1.64	
<b>Ethylbenzene*</b>	<b>16.3</b>	0.100	12/06/2022	ND	2.11	105	2.00	0.280	
<b>Total Xylenes*</b>	<b>47.2</b>	0.300	12/06/2022	ND	6.46	108	6.00	1.36	
<b>Total BTEX</b>	<b>74.4</b>	0.600	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 240 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>720</b>	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>377</b>	50.0	12/06/2022	ND	178	89.1	200	10.3	
<b>DRO &gt;C10-C28*</b>	<b>3900</b>	50.0	12/06/2022	ND	193	96.4	200	9.36	
<b>EXT DRO &gt;C28-C36</b>	<b>1010</b>	50.0	12/06/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161

Surrogate: 1-Chlorooctadecane 210 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 4 @ 1' (H225663-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.15	108	2.00	1.26	
<b>Toluene*</b>	<b>0.061</b>	0.050	12/06/2022	ND	2.15	107	2.00	1.64	
<b>Ethylbenzene*</b>	<b>0.074</b>	0.050	12/06/2022	ND	2.11	105	2.00	0.280	
<b>Total Xylenes*</b>	<b>0.271</b>	0.150	12/06/2022	ND	6.46	108	6.00	1.36	
<b>Total BTEX</b>	<b>0.421</b>	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2600</b>	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	178	89.1	200	10.3	
<b>DRO &gt;C10-C28*</b>	<b>207</b>	10.0	12/07/2022	ND	193	96.4	200	9.36	
<b>EXT DRO &gt;C28-C36</b>	<b>107</b>	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 5 @ 0' (H225663-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.15	108	2.00	1.26	
<b>Toluene*</b>	<b>0.071</b>	0.050	12/06/2022	ND	2.15	107	2.00	1.64	
<b>Ethylbenzene*</b>	<b>0.176</b>	0.050	12/06/2022	ND	2.11	105	2.00	0.280	
<b>Total Xylenes*</b>	<b>0.577</b>	0.150	12/06/2022	ND	6.46	108	6.00	1.36	
<b>Total BTEX</b>	<b>0.837</b>	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1840</b>	16.0	12/06/2022	ND	448	112	400	3.64	

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	12/06/2022	ND	203	102	200	5.98		
<b>DRO &gt;C10-C28*</b>	<b>1140</b>	50.0	12/06/2022	ND	186	92.8	200	1.88		
<b>EXT DRO &gt;C28-C36</b>	<b>569</b>	50.0	12/06/2022	ND						

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 192 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 5 @ 4' (H225663-11)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.15	108	2.00	1.26	
Toluene*	<0.050	0.050	12/06/2022	ND	2.15	107	2.00	1.64	
<b>Ethylbenzene*</b>	<b>0.121</b>	0.050	12/06/2022	ND	2.11	105	2.00	0.280	
<b>Total Xylenes*</b>	<b>0.227</b>	0.150	12/06/2022	ND	6.46	108	6.00	1.36	
<b>Total BTEX</b>	<b>0.372</b>	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 178 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>608</b>	16.0	12/06/2022	ND	448	112	400	3.64	

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*	<10.0	10.0	12/06/2022	ND	203	102	200	5.98	
<b>DRO &gt;C10-C28*</b>	<b>358</b>	10.0	12/06/2022	ND	186	92.8	200	1.88	
<b>EXT DRO &gt;C28-C36</b>	<b>121</b>	10.0	12/06/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 6 @ 0' (H225663-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.233</b>	0.200	12/07/2022	ND	2.21	110	2.00	8.56	S-04
<b>Toluene*</b>	<b>8.16</b>	0.200	12/07/2022	ND	2.21	111	2.00	8.33	S-04
<b>Ethylbenzene*</b>	<b>19.8</b>	0.200	12/07/2022	ND	2.23	111	2.00	8.16	S-04
<b>Total Xylenes*</b>	<b>56.6</b>	0.600	12/07/2022	ND	6.71	112	6.00	8.95	S-04
<b>Total BTEX</b>	<b>84.9</b>	1.20	12/07/2022	ND					S-04

Surrogate: 4-Bromofluorobenzene (PID) 147 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1120</b>	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>6210</b>	50.0	12/07/2022	ND	203	102	200	5.98		
<b>DRO &gt;C10-C28*</b>	<b>46500</b>	50.0	12/07/2022	ND	186	92.8	200	1.88		
<b>EXT DRO &gt;C28-C36</b>	<b>9440</b>	50.0	12/07/2022	ND						

Surrogate: 1-Chlorooctane 936 % 45.3-161

Surrogate: 1-Chlorooctadecane 978 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: V 6 @ 2' (H225663-13)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
<b>Ethylbenzene*</b>	<b>0.091</b>	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
<b>Total Xylenes*</b>	<b>0.281</b>	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
<b>Total BTEX</b>	<b>0.400</b>	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>464</b>	16.0	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	203	102	200	5.98	
DRO >C10-C28*	<10.0	10.0	12/05/2022	ND	186	92.8	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.9 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: NH 1 @ 0' (H225663-14)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56		
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33		
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16		
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95		
Total BTEX	<0.300	0.300	12/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/06/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	203	102	200	5.98		
DRO >C10-C28*	<10.0	10.0	12/05/2022	ND	186	92.8	200	1.88		
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND						

Surrogate: 1-Chlorooctane 93.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.1 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: NH 1 @ 1' (H225663-15)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	12/06/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	183	91.4	200	5.22	
DRO >C10-C28*	<10.0	10.0	12/05/2022	ND	176	88.0	200	0.916	
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.4 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: NH 2 @ 0' (H225663-16)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	2200	16.0	12/06/2022	ND	432	108	400	3.64	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2022	ND	183	91.4	200	5.22	
DRO >C10-C28*	665	10.0	12/06/2022	ND	176	88.0	200	0.916	
EXT DRO >C28-C36	188	10.0	12/06/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: NH 2 @ 1' (H225663-17)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>624</b>	16.0	12/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	183	91.4	200	5.22	
<b>DRO &gt;C10-C28*</b>	<b>12.3</b>	10.0	12/05/2022	ND	176	88.0	200	0.916	
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.5 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: EH 1 @ 0' (H225663-18)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>2200</b>	16.0	12/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	183	91.4	200	5.22	
<b>DRO &gt;C10-C28*</b>	<b>20.8</b>	10.0	12/05/2022	ND	176	88.0	200	0.916	
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: EH 1 @ 1' (H225663-19)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	12/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	183	91.4	200	5.22	
DRO >C10-C28*	<10.0	10.0	12/05/2022	ND	176	88.0	200	0.916	
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 99.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: SH 1 @ 0' (H225663-20)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2022	ND	183	91.4	200	5.22	
DRO >C10-C28*	432	10.0	12/06/2022	ND	176	88.0	200	0.916	
EXT DRO >C28-C36	181	10.0	12/06/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 143 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	11/30/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: SH 1 @ 1' (H225663-21)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	12/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2022	ND	183	91.4	200	5.22	
DRO >C10-C28*	50.0	10.0	12/06/2022	ND	176	88.0	200	0.916	
EXT DRO >C28-C36	41.5	10.0	12/06/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: SH 2 @ 0' (H225663-22)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6240</b>	16.0	12/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	183	91.4	200	5.22	
<b>DRO &gt;C10-C28*</b>	<b>10.9</b>	10.0	12/05/2022	ND	176	88.0	200	0.916	
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: SH 2 @ 1' (H225663-23)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1840</b>	16.0	12/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2022	ND	183	91.4	200	5.22	
<b>DRO &gt;C10-C28*</b>	<b>544</b>	10.0	12/06/2022	ND	176	88.0	200	0.916	
<b>EXT DRO &gt;C28-C36</b>	<b>346</b>	10.0	12/06/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 134 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: WH 1 @ 0' (H225663-24)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	183	91.4	200	5.22	
DRO >C10-C28*	<10.0	10.0	12/05/2022	ND	176	88.0	200	0.916	
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.4 % 46.3-178

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.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/02/2022	Sampling Date:	12/01/2022
Reported:	12/08/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT #128	Sampling Condition:	Cool & Intact
Project Number:	17131	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

**Sample ID: WH 1 @ 1' (H225663-25)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2022	ND	2.21	110	2.00	8.56	
Toluene*	<0.050	0.050	12/06/2022	ND	2.21	111	2.00	8.33	
Ethylbenzene*	<0.050	0.050	12/06/2022	ND	2.23	111	2.00	8.16	
Total Xylenes*	<0.150	0.150	12/06/2022	ND	6.71	112	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	160	16.0	12/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2022	ND	183	91.4	200	5.22	
DRO >C10-C28*	<10.0	10.0	12/05/2022	ND	176	88.0	200	0.916	
EXT DRO >C28-C36	<10.0	10.0	12/05/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.0 % 46.3-178

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.

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



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

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

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.

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







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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Etech Environmental & Safety Solutions, Inc.  
 Project Manager: Zach Conder  
 Address: 2617 W Marland  
 City: Hobbs State: NM Zip: 88240  
 Phone #: (575) 264-9884 Fax #: 2617 W. Marland  
 Project #: 17131 Project Owner: Legacy  
 Project Name: Cooper Jal Unit #128  
 Project Location: Rural Lea County, NM  
 Sampler Name: Matthew Grieco  
 P.O. #: Company: Etech Environmental  
 Attn: Joel Lowry  
 Address: 2617 W. Marland  
 City: Hobbs  
 State: NM Zip: 88240  
 Phone #: (575) 264-9884  
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H225663														
21	SH1 @ 1'	G	1	X					11/30/22		X	X	X	
22	SH2 @ 0'	G	1	X					12/1/22		X	X	X	
23	SH2 @ 1'	G	1	X					12/1/22		X	X	X	
24	WH1 @ 0'	G	1	X					12/1/22		X	X	X	
25	WH1 @ 1'	G	1	X					12/1/22		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 service. 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: [Signature] Date: 12-2-22 Time: 14:50  
 Received By: [Signature] Date: [ ] Time: [ ]  
 Relinquished By: [Signature] Date: [ ] Time: [ ]  
 Received By: [Signature] Date: [ ] Time: [ ]

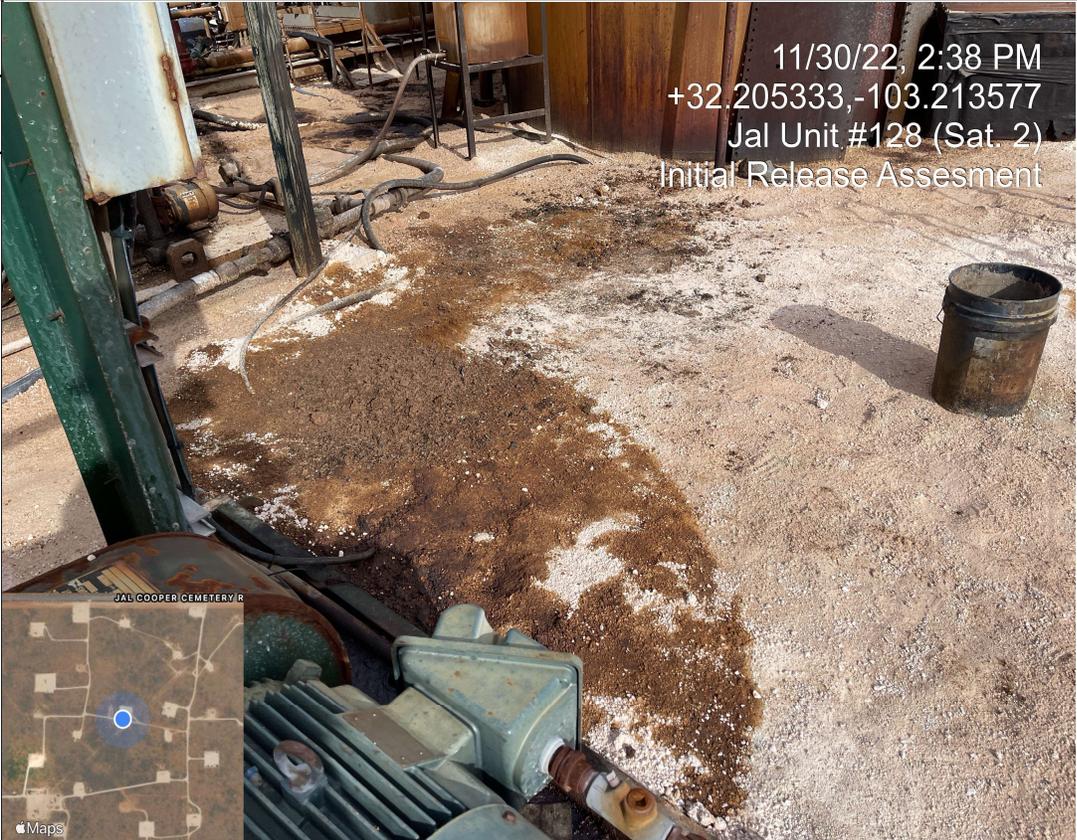
Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: -4.6c/-5.2c  
 Sample Condition: Cool  Intact   
 Yes  No   
 Checked By: [Signature] (Initials) YD

FORM-006  
 Revision 1.0  
 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
 Please email results and copy of CoC to pm@etechnv.com.

## **Appendix D**

# **Photographic Log**

### Photographic Log

<b>Photo Number:</b> #1	 <p>11/30/22, 2:38 PM +32.205333,-103.213577 Jal Unit #128 (Sat. 2) Initial Release Assessment</p>
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b> Initial Release Assessment.	

<b>Photo Number:</b> #2	 <p>11/30/22, 2:39 PM +32.205333,-103.213577 Jal Unit #128 (Sat. 2) Initial Release Assessment</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b> Initial Release Assessment.	

### Photographic Log

<b>Photo Number:</b> #3	
<b>Photo Direction:</b> West	
<b>Photo Description:</b> Initial Release Assessment.	

<b>Photo Number:</b> #4	
<b>Photo Direction:</b> East	
<b>Photo Description:</b> Initial Release Assessment.	

### Photographic Log

<b>Photo Number:</b> #5
<b>Photo Direction:</b> Northeast
<b>Photo Description:</b> Electrical line strike during site revisit.



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

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

CONDITIONS

Action 186920

**CONDITIONS**

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 186920
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. The OCD will not close a release, where contaminants are left in place, due to close proximity to equipment. The incident will only be closed after all contaminated soil has been remediated to meet OCD Spill Rule Standards.	2/28/2023