

Incident ID	nAPP22304406333
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?	~130 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 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.

Incident ID	nAPP22304406333
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: 2/2/2023

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

OCD Only

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

Incident ID	nAPP22304406333
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: 2/2/2023
 email: mobrien@legacyreserves.com Telephone: (720) 327-1543

OCD Only

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

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Jennifer Nobui Date: 02/20/2023

Site Assessment Summary and Proposed Remediation Workplan

Legacy Reserves Operating, LP Cooper Jal Unit #201

Lea County, New Mexico
Unit Letter H, Section 24, Township 24 South, Range 36 East
Latitude 32.206131 North, Longitude 103.212103 West
NMOCD Reference No. NAPP2230440633

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.....	1.0
SITE CHARACTERIZATION.....	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	3.0
INITIAL SITE ASSESSMENT.....	4.0
PROPOSED REMEDIATION PLAN.....	5.0
ALTERNATIVE SAMPLING PLAN.....	6.0
TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED.....	7.0
RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN.....	8.0
LIMITATIONS.....	9.0
DISTRIBUTION.....	10.0

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 and Proposed Remediation Workplan* for the release site known as the Cooper Jal Unit #201 (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source			
Latitude: <u>32.206131</u>		Longitude: <u>-103.212103</u>	
Provided GPS are in WGS84 format.			
Site Name: <u>Cooper Jal Unit #201</u>		Site Type: <u>Pipeline</u>	
Date Release Discovered: <u>10/30/2022</u>		API # (if applicable): <u>30-025-09628</u>	
Unit Letter	Section	Township	Range
H	24	24S	36E
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private		(Name <u>RRR Land & Cattle Co.</u>)	
Nature and Volume of Release			
<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>707 bbls</u>	Volume Recovered (bbls) <u>240 bbls</u>	
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered	
Cause of Release: <u>Rupture in injection line at valve box, filling a manway hatch and overflowing into pasture.</u>			
Initial Response			
<input checked="" type="checkbox"/> The source of the release has been stopped.			
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.			
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices			
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.			

Previously submitted portions of the NMOCD Form C-141 are available 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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) 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 INITIAL SITE ASSESSMENT

On December 13, 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 RP 1) were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In the course of advancing the hand-augered soil bores, twelve (12) delineation soil samples (V 1 @ 0', V 1 @ 2', V 2 @ 0', V 2 @ 3' - R, V 3 @ 0', V 3 @ 4', V 4 @ 0', V 4 @ 2' - R, V 5 @ 0', V 5 @ 1', RP 1 @ 4' and RP 1 @ 5') 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 for analysis of BTEX, TPH and chloride concentrations.

In addition, Etech collected eighteen (18) horizontal delineation soil samples (EH 1 @ 0', EH 1 @ 1', EH 2 @ 0', EH 2 @ 1', EH 3 @ 0', EH 3 @ 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', WH 1 @ 1', WH 2 @ 0' and WH 2 @ 1') in an effort to further characterize the horizontal extent of the release. The collected soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standards in all of the submitted soil samples.

On December 30, 2022, Etech returned to the Site to continue delineation activities. Laboratory analytical results from delineation soil samples collected during the initial site assessment indicated chloride concentrations were above the NMOCD Reclamation standard at soil bore locations V 2 (V 2 @ 3' - R, 1,440 mg/kg) and V 4 (V 4 @ 2' - R, 1,880 mg/kg). Utilizing mechanical equipment, soil bore locations V 2 and V 4 were advanced until field observations indicated concentrations of chloride were below the NMOCD Reclamation Standard and/or NMOCD Closure Criterion. Delineation soil samples (V 2 @ 5' and V 4 @ 5') were collected and submitted to the laboratory for analysis of chloride concentrations.

Furthermore, two test trenches (T.T. 1 and T.T. 2) were installed inside the open repair excavation in areas visually impacted by historical hydrocarbon contamination. Four (4) field soil samples (T.T. 1 @ 5', T.T. 1 @ 11', T.T. 2 @ 5' and T.T. 2 @ 12') were collected and screened for the presence of TPH by visual and olfactory observations. The collected soil samples were submitted to the laboratory for analysis of TPH concentrations. Analytical results indicated TPH concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation standard in all of the submitted soil samples.

Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond four (4) feet below ground surface (bgs), and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was adequately defined. A "Site and Sample Location Map" is provided as Figure 3. "Concentrations of BTEX, TPH and Chloride in Soil" is provided as Table 1. Laboratory analytical reports are provided in Appendix C.

5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, Legacy Reserves Operating, LP, proposes the following remediation activities designed to advance the Site toward an approved closure:

- In accordance with NMOCD regulations, excavate impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards within the approximate 15,515-square-foot area characterized by delineation sample points to an estimated depth of four (4) feet bgs, or until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards.
- Temporarily stockpile excavated material on-site atop an impermeable liner, pending final disposition at an NMOCD-approved disposal facility.

- Collect confirmation soil samples for laboratory analysis from the base and sidewalls of the excavated area(s) representative of every 600 square feet.
- Upon receiving laboratory analytical results from confirmation soil samples, backfill the excavated area(s) with locally sourced, non-impacted "like" material.
- Upon completion of remediation activities, prepare a *Remediation Summary and Soil Closure Request* detailing field activities and laboratory analytical results from confirmation soil samples.

6.0 ALTERNATIVE SAMPLING PLAN

Based on laboratory analytical results, the nature of the impacted area, and the estimated depth to groundwater, Legacy proposes that the per-sample area is increased from 200 square feet to 600 square feet. Legacy believes that the lack of variability in surface topography, the relatively consistent contaminant levels reported in the laboratory results, and the relatively shallow depth of contaminant intrusion justify the relaxation of sampling frequency.

7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within ninety (90) days of receiving necessary approval(s) of the *Site Assessment Summary and Proposed Remediation Plan*. Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, it is estimated that approximately 2,600 cubic yards of impacted soil is in need of removal.

8.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the Site.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Site Assessment Summary and Proposed Remediation Workplan* 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.

10.0 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

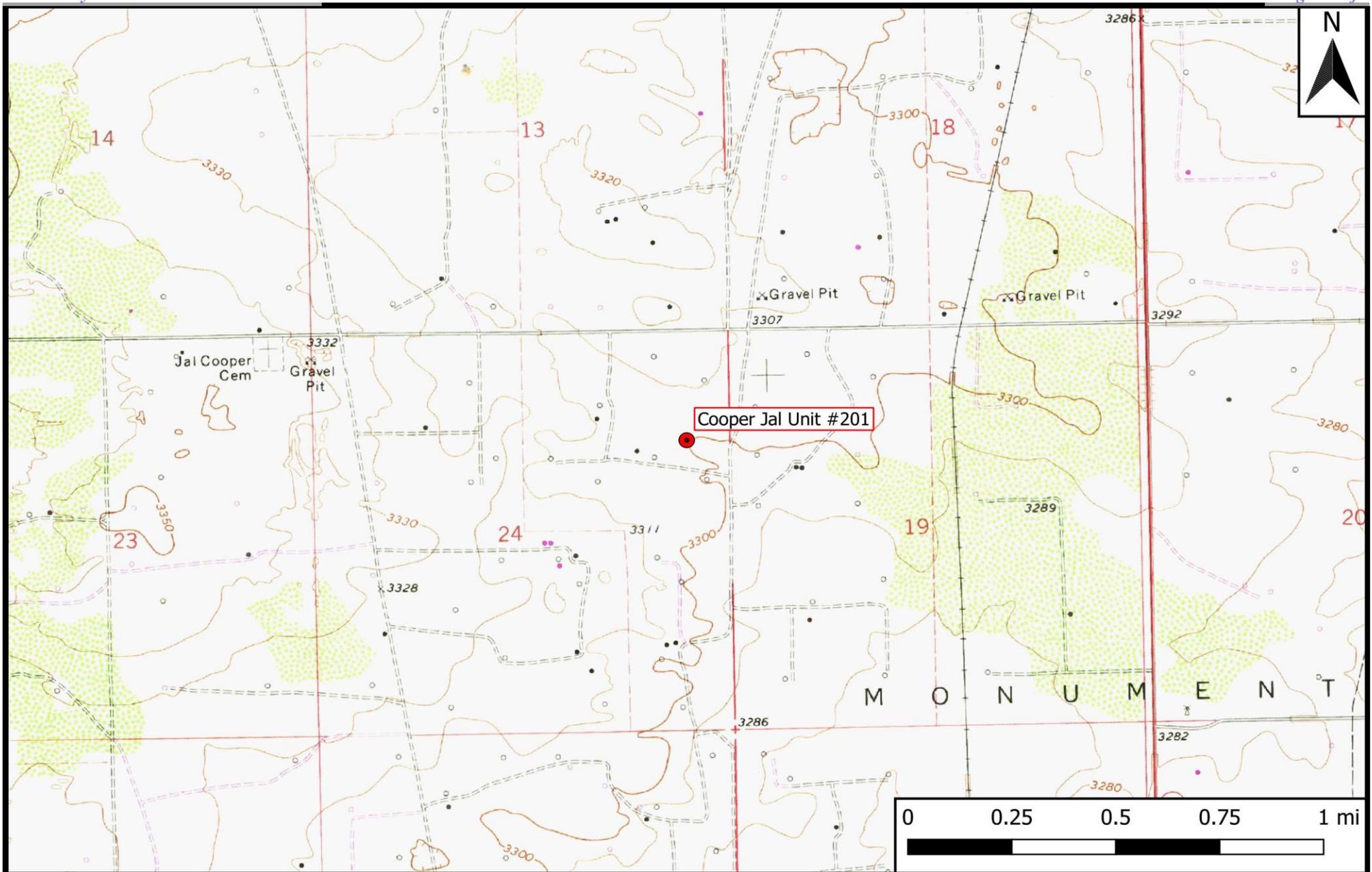
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

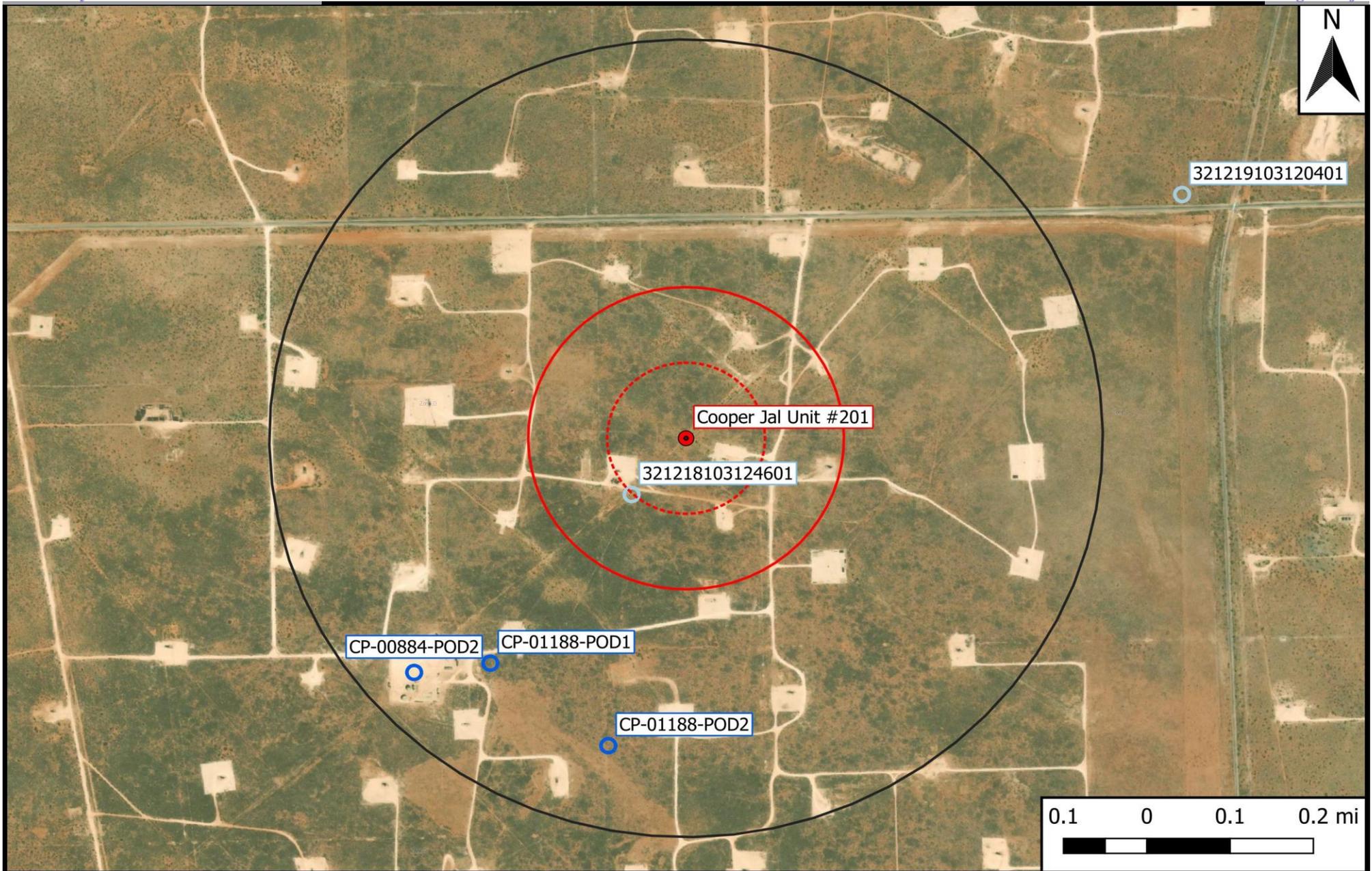
Figure 1
 Topographic Map
 Legacy Reserves Operating, LP
 Cooper Jal Unit #201
 GPS: 32.206131, -103.212103
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: zc Date: 11/15/22

Figure 2

Aerial Proximity Map



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

Figure 2
 Aerial Proximity Map
 Legacy Reserves Operating, LP
 Cooper Jal Unit #201
 GPS: 32.206131, -103.212103
 Lea County

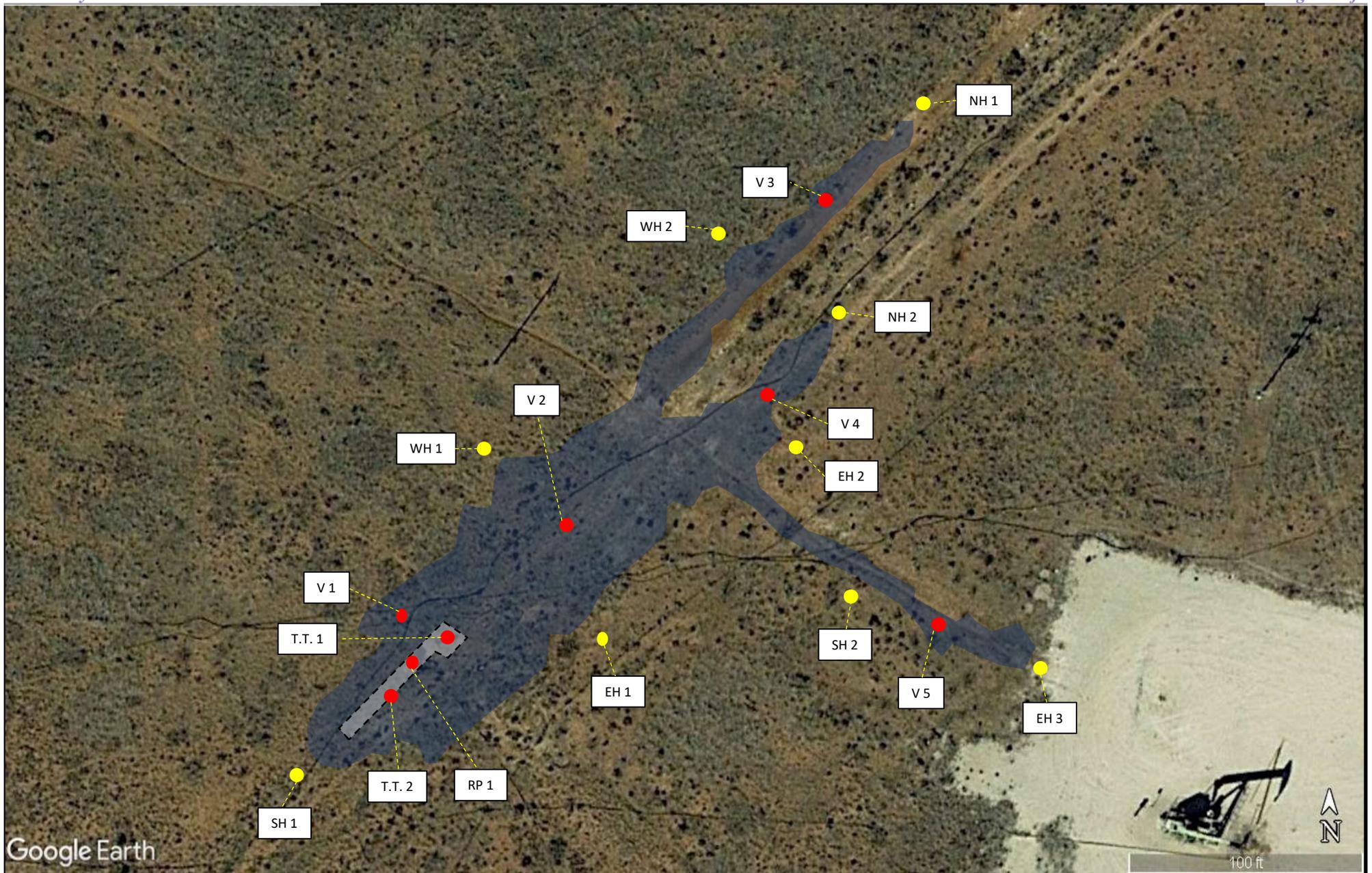


Environmental & Safety Solutions, Inc.

Drafted: mag Checked: zc Date: 11/15/22

Figure 3

Site and Sample Location Map



Google Earth

Legend:

●	Sample Point
■	Affected Area
●	Horizontal Sample Point
■	Initial Response/Repair Excavation

Figure 3
 Site and Sample Location Map
 Legacy Reserves Operating, LP
 Cooper Jal Unit #201
 GPS: 32.206131, -103.212103
 Lea County



eTECH
Environmental & Safety Solutions, Inc.

Drafted: ZPC Checked: jwl Date: 1/31/23

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 #201 NMOCD Ref. #: NAPP2230440633											
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
EH 1 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EH 1 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH 2 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EH 2 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EH 3 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EH 3 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 1 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 1 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 2 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 2 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SH 1 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SH 1 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 2 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 2 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WH 1 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH 1 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 2 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 2 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
RP 1 @ 4'	12/13/2022	4	In-Situ	<0.050	0.348	23.4	354	377	60.1	438	816
RP 1 @ 5'	12/13/2022	5	In-Situ	<0.050	<0.300	12.4	339	351	59.3	411	1,980
V 1 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V 1 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V 2 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V 2 @ 3' - R	12/13/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440
V 2 @ 5'	12/30/2022	5	In-Situ	-	-	-	-	-	-	-	2,560
V 3 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
V 3 @ 4'	12/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,280
V 4 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	656
V 4 @ 2' - R	12/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,880
V 4 @ 5'	12/30/2022	5	In-Situ	-	-	-	-	-	-	-	2,000
V 5 @ 0'	12/13/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
V 5 @ 1'	12/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
T.T. 1 @ 5'	12/30/2022	5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
T.T. 2 @ 5'	12/30/2022	5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
T.T. 1 @ 11'	12/30/2022	11	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
T.T. 2 @ 12'	12/30/2022	12	In-Situ	-	-	<10.0	84.4	84.4	<10.0	84.4	-

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



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
CP 01188 POD1	CP	LE	2	1	4	24	24S	36E	668131	3564233		589	176	136	40
CP 01188 POD2	CP	LE	3	2	4	24	24S	36E	668359	3564067		635	171	134	37
CP 00884 POD2	CP	LE	1	1	4	24	24S	36E	667984	3564215*		705	173		

Average Depth to Water: **135 feet**

Minimum Depth: **134 feet**

Maximum Depth: **136 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 668509.42

Northing (Y): 3564685.66

Radius: 804.67

*UTM location was derived from PLSS - see Help

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

11/15/22 12:55 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)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X Y
	CP 00884 POD2	1	1	4	24	24S	36E	667984 3564215*

Driller License: 1731	Driller Company: HARRISON & COOPER, INC DBA: HCI DRILLING	
Driller Name: COOPER, KENNY.EE.NER		
Drill Start Date: 10/01/2013	Drill Finish Date: 10/01/2013	Plug Date:
Log File Date:	PCW Rcv Date: 04/20/2015	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 6.00	Depth Well: 173 feet	Depth Water:

*UTM location was derived from PLSS - see Help

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

11/15/22 12:56 PM

POINT OF DIVERSION SUMMARY

File number: _____
(For OSE Use Only)

**NEW MEXICO OFFICE OF THE STATE ENGINEER
PROOF OF COMPLETION OF WELL**

1. OWNER OF WELL (PERMITTEE)

Name: Chevron U.S.A., Inc. Work Phone: (713)734-3090
Contact: Scott Foord (Agent of Chevron U.S.A) Home Phone: _____
Address: 6320 Rothway,
Suite 100
City: Houston State: TX Zip: 77040

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. NW 1/4 NW 1/4 SE 1/4 Section: 24 Township: 24S Range: 36E N.M.P.M.
in Lea County.

B. X = N/A feet, Y = N/A feet, N.M. Coordinate System
N/A Zone in the N/A Grant.
U.S.G.S. Quad Map N/A

C. Latitude: 32 d 12 m 02.79 s Longitude: 103 d 12 m 58.80 s

D. East N/A (m), North N/A (m), UTM Zone 13, NAD (27 or 83)

E. Tract No. N/A, Map No. N/A of the N/A Hydrographic Survey

F. Lot No. N/A, Block No. N/A of Unit/Tract N/A of the
N/A Subdivision recorded in N/A County.

G. Other: N/A

H. Give State Engineer File Number if existing diversion: CP-884 POD2

I. On land owned by (required): Louis Q. Thomas, James R. Pruett and Wendy Pruett

STATE ENGINEER OFFICE
DOCSWELL NEW MEXICO
2015 APR 20 PM 9:57

3. WELL INFORMATION

Depth of well 173 feet; Is well cased: Yes;
Outside diameter of top casing (or hole if not cased) 6 inches;
If artesian, is well equipped with gate valve: N/A;
Name of well driller and driller license number; Harrison and Cooper, Inc.,
N.M. License #1731; Date well completed: 10/01/2013.

Do Not Write Below This Line

File Number: _____ Trn Number: _____
Form: wr-11 page 1 of 3

File number: _____
(For OSE Use Only)

**NEW MEXICO OFFICE OF THE STATE ENGINEER
PROOF OF COMPLETION OF WELL**

4. PUMP TEST

(To be supplied by person or firm making test)

Name and address of the person making the test: N/A - Pump has not been installed at this time. Pump test data will be submitted to NMOSE following pump installation anticipated later this year.

Date of test N/A; Length of test N/A hours;
Depth to water before test N/A feet (above or below) land surface;
Depth to water after test N/A feet (above or below) land surface;
Average discharge N/A GPM;
Specific capacity of well N/A GPM per foot drawdown.

Please attach pump test data.

5. PERMANENT PUMP EQUIPMENT

A. DESCRIPTION OF PUMP

Make: N/A; Type: N/A;
Size of discharge: N/A inches;
If turbine type, give size of column N/A inches;
Diameter of bowls N/A inches; Number of bowls N/A;
Length of suction pipe N/A feet;
Total length of column, bowls and suction pipe N/A feet;
If centrifugal type, give size of pump N/A inches;
Rated capacity of pump, if known N/A GPM; At N/A rev. per min.,
From a depth of N/A feet.

B. DESCRIPTION OF POWER PLANT

Make, type, horsepower, etc., of power plant: N/A
Type of drive connection to pump: N/A
(direct, gearhead, or belt)

C. DISCHARGE OF PUMP

Actual discharge of pump N/A GPM, at N/A rev. per min.,
From a depth of N/A feet; Date of test N/A.

6. DESCRIPTION OF STORAGE RESERVOIR

Length N/A feet; Width N/A feet; Average depth N/A feet.

Do Not Write Below This Line

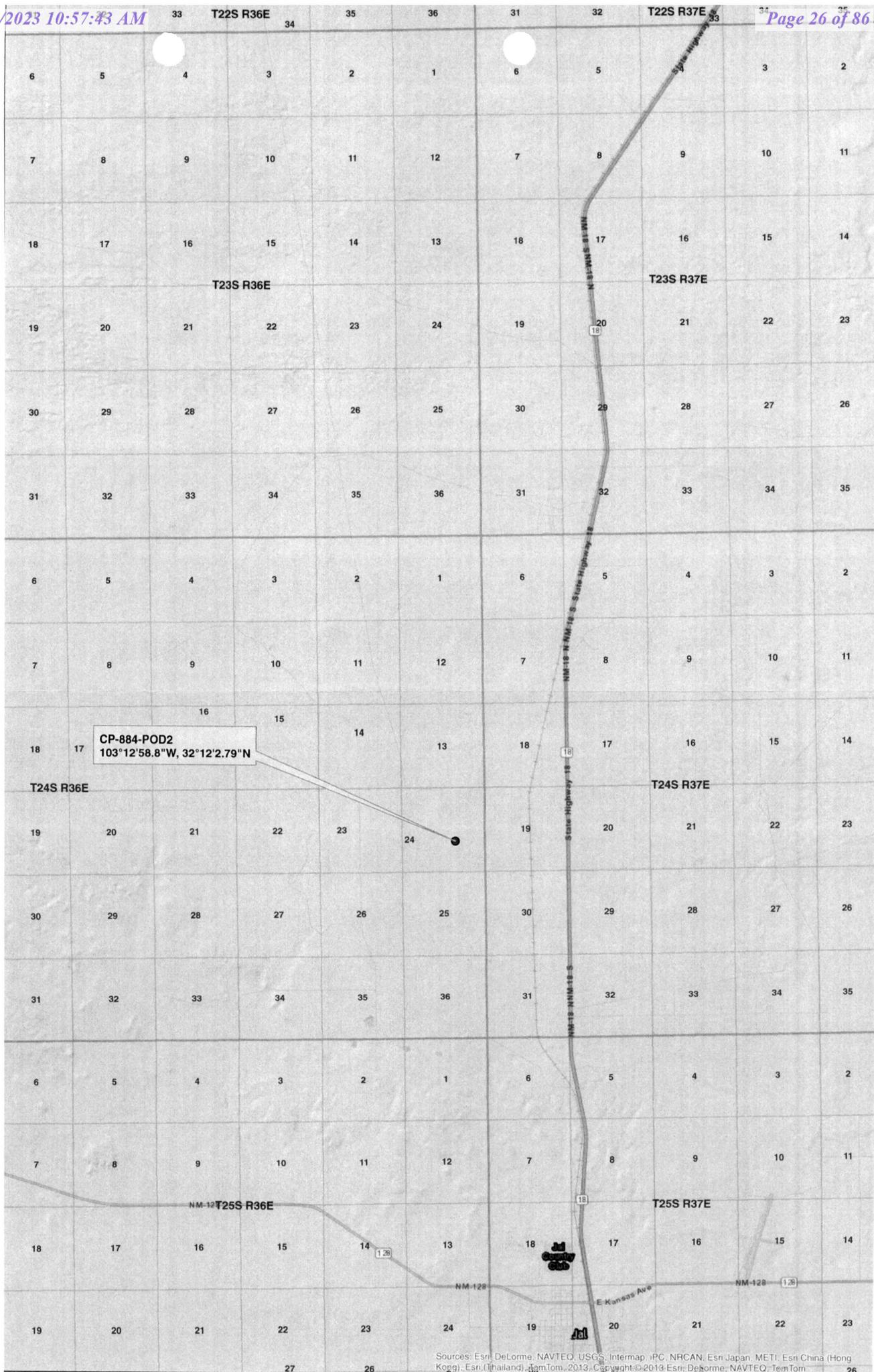
File Number: _____

Form: wr-11

Trn Number: _____

page 2 of 3

STATE ENGINEER OFFICE
DOCSWELL, NEW MEXICO
2015 APR 20 AM 9:57



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013. Copyright © 2013 Esri, DeLorme, NAVTEQ, TomTom



New Mexico Office of the State Engineer

Point of Diversion Summary

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

11/15/22 12:56 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)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01188 POD2	3	2	4	24	24S	36E	668359	3564067

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: 5 GPM
Casing Size: 4.00	Depth Well: 171 feet	Depth Water: 134 feet

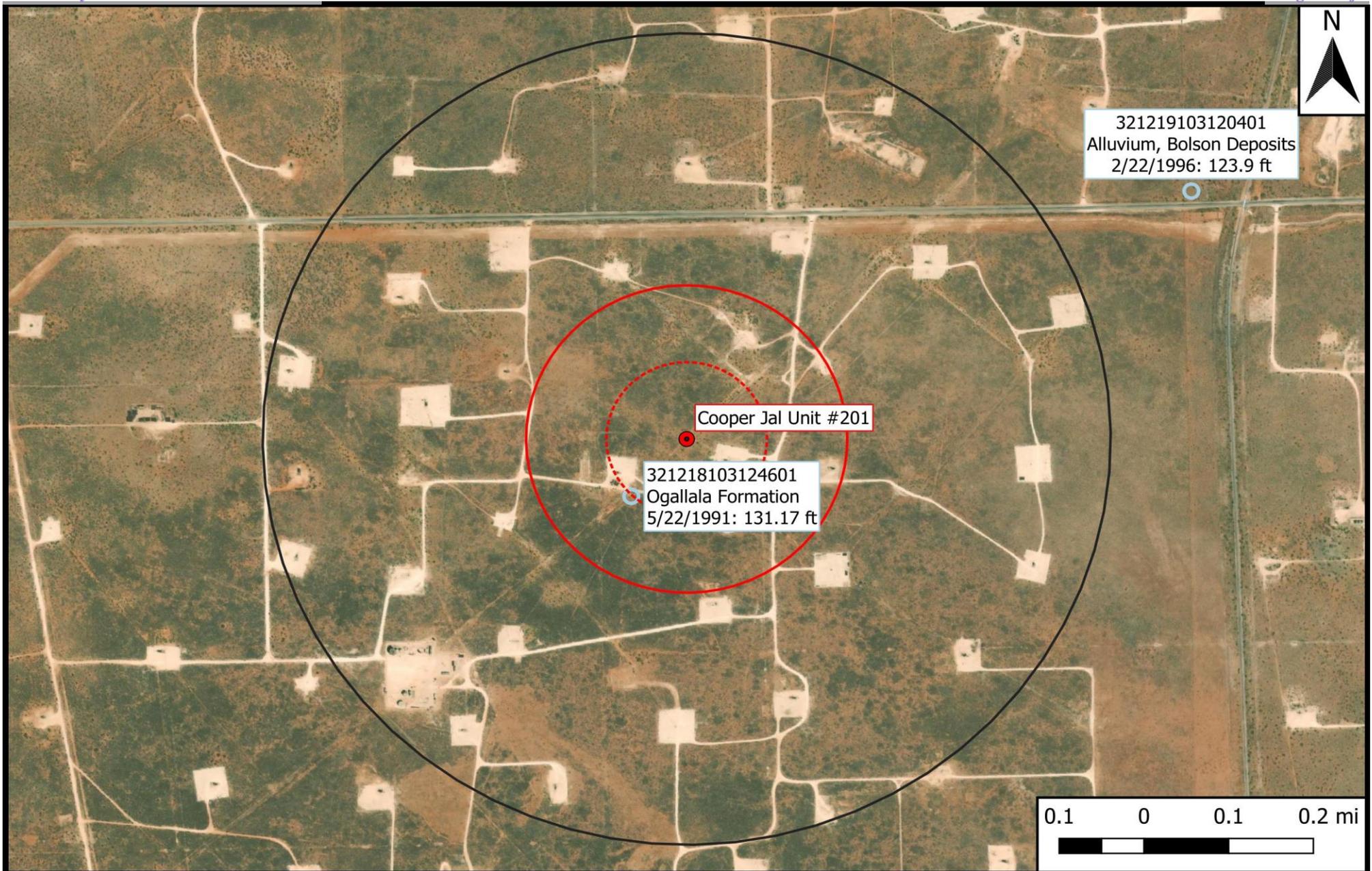
Water Bearing Stratifications:	Top	Bottom	Description
	0	168	Sandstone/Gravel/Conglomerate

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.

11/15/22 12:56 PM

POINT OF DIVERSION SUMMARY



Legend	
●	Site Location
○	Well - USGS
	500 Ft Radius
	1000 Ft Radius
	0.5 Mi Radius

Figure 5
 USGS Well Proximity Map
 Legacy Reserves Operating, LP
 Cooper Jal Unit #201
 GPS: 32.206131, -103.212103
 Lea County



 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: zc Date: 11/15/22



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 =

- 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.

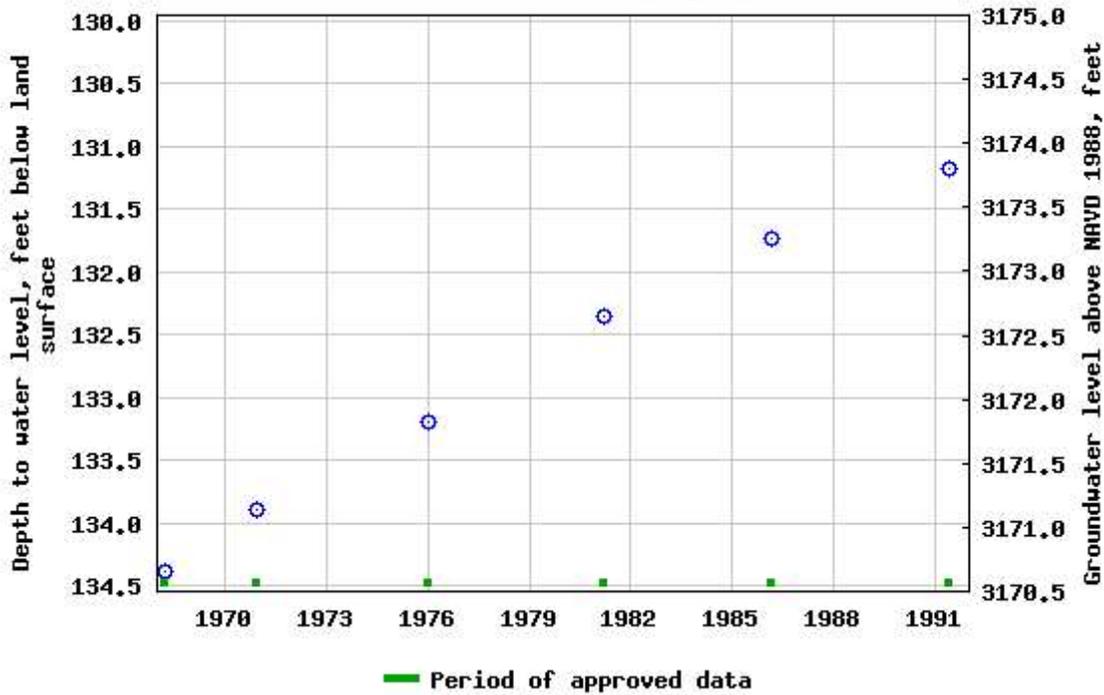
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

Output formats

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

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: 2022-11-15 14:53:18 EST

0.6 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.

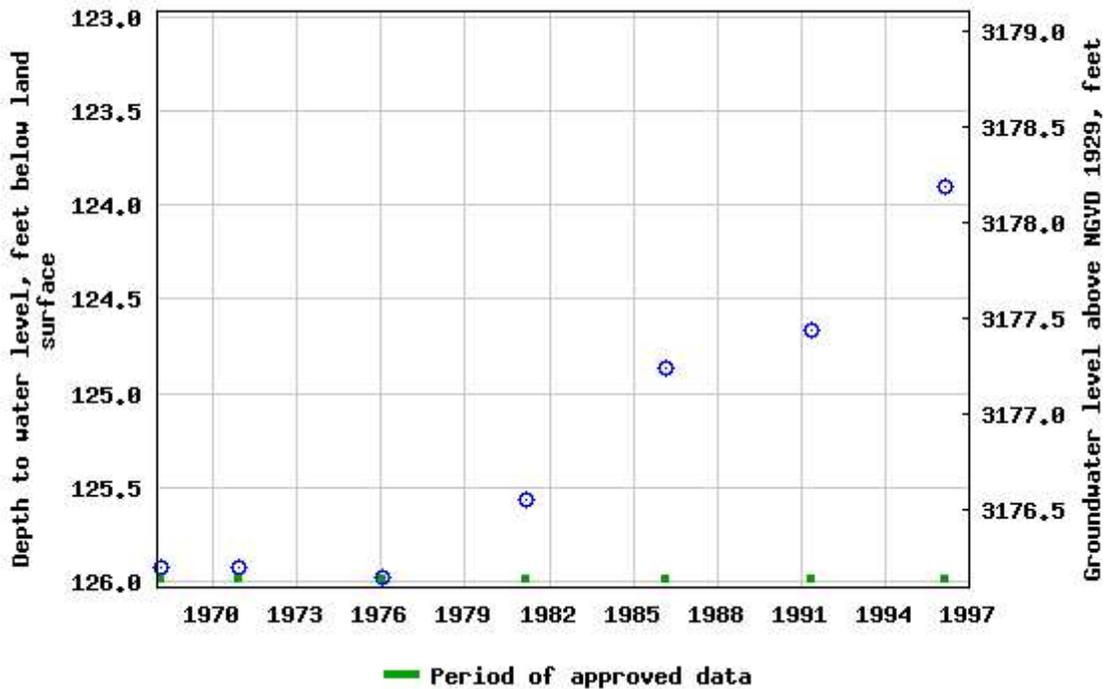
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

Output formats

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

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: 2022-11-15 14:53:18 EST

0.57 0.5 nadww01

Appendix B

Field Data and Soil Profile Logs



Sample Log

Date: 12/13/22

Project: Cooper Jal Unit #201

Project Number: 17122 Latitude: 32.206131 Longitude: -103.212103

Sample ID	PID/Odor	Chloride Conc.	GPS
V5 e 0'	—	2.8 328	
V5 e 1'	—	1.4 124	
V5 e 2'	—	1.4 124	
V4 e 0'	—	5.0 712	
V4 e 1'	—	7.0 1840	
V3 e 0'	—	2.8 328	
V3 e 1'	—	7.2 1768	
V3 e 2'	—	7.4 2112	
V2 e 0'	—	2.8 328	
V2 e 1'	—	1.6 148	
V2 e 2'	—	4.2 660	
V1 e 0'	—	2.4 260	
V1 e 1'	—	2.2 228	
V1 e 2'	—	2.4 260	
SH1 e 0'	—	2.4 260	
SH1 e 1'	—	2.0 200	
EH1 e 0'	—	2.4 260	
EH1 e 1'	—	2.0 200	
WH1 e 0'	—	2.4 260	
WH1 e 1'	—	2.4 260	
NH1 e 0'	—	2.4 260	
NH1 e 1'	—	2.0 200	
SH2 e 0'	—	1.2 < 124	
SH2 e 1'	—	2.2 2.2 228	
WH2 e 0'	—	3.0 368	
WH2 e 1'	—	2.4 260	
EH2 e 0'	—	2.6 252	
EH2 e 1'	—	2.8 308 328	
NH2 e 0'	—	2.4 260	
NH2 e 1'	—	3.2 408	
EH3 e 0'	—	2.4 260	
EH3 e 1'	—	3.0 368	
V3 @ 3'	—	6.8 1716	
V3 @ 4'	—	6.8 1716	
V2 e 3' -R	—	6.8 1716	
V1 e 2' -R	—	6.6 1604	

Sample Point = SP #1 @ ## etc
 RTI e y
 Floor = FL #1 etc
 RPIC e S
 Sidewall = SW #1 etc

Yes 4.6 780
 Single 7.4 2112
 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: 12-30-22

Project: Cooper Jal Unit #201

Project Number: 17122 Latitude: 32.206131 Longitude: -103.212103

Depth (ft. bgs)

Description

1	Red Sand
2	
3	Caliche
4	Caliche
5	
6	
7	
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

January 05, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COOPER JAL UNIT # 201

Enclosed are the results of analyses for samples received by the laboratory on 01/03/23 15:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	01/03/2023	Sampling Date:	12/30/2022
Reported:	01/05/2023	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Shalyn Rodriguez
Project Location:	LEGACY - LEA CO NM		

Sample ID: T.T. 1 @ 5' (H230007-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2023	ND	205	103	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/04/2023	ND	196	98.0	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/04/2023	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>102 %</i>	<i>45.3-161</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>105 %</i>	<i>46.3-178</i>						

Sample ID: T.T. 2 @ 5' (H230007-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2023	ND	205	103	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/04/2023	ND	196	98.0	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/04/2023	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>91.8 %</i>	<i>45.3-161</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>92.3 %</i>	<i>46.3-178</i>						

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/03/2023	Sampling Date:	12/30/2022
Reported:	01/05/2023	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Shalyn Rodriguez
Project Location:	LEGACY - LEA CO NM		

Sample ID: T.T. 2 @ 11' (H230007-03)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2023	ND	205	103	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/04/2023	ND	196	98.0	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/04/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	89.5 %	45.3-161							
Surrogate: 1-Chlorooctadecane	89.3 %	46.3-178							

Sample ID: T.T. 2 @ 12' (H230007-04)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2023	ND	205	103	200	3.65	
DRO >C10-C28*	84.4	10.0	01/04/2023	ND	196	98.0	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/04/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	98.9 %	45.3-161							
Surrogate: 1-Chlorooctadecane	102 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Zach Conder Address: 2617 W Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 17122 Project Owner: Legacy Project Name: Cooper Jal Unit 201 Project Location: Rural Lea County, NM Sampler Name: Miguel Ramirez		P.O. #: Company: Etech Environmental Attn: Joel Lowry Address: 2617 W. Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #:	
BILL TO			
ANALYSIS REQUEST			
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	
	H23D007		
	1	T.T.1 @ 5'	(G)RAB OR (C)OMP.
	2	T.T.2 @ 5'	# CONTAINERS
	3	T.T.2 @ 11'	GROUNDWATER
	4	T.T.2 @ 12'	WASTEWATER
			SOIL
			OIL
			SLUDGE
			OTHER :
			ACID/BASE:
			ICE / COOL
			OTHER :
			DATE
			TIME
			Chloride
			TPH (8015M)
			BTEX (8021B)

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 analysis. 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:** 1/3/23 **Received By:** [Signature] **Date:** 1/3/23

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: [Handwritten: 241/c.o.v.c.]
 [Handwritten: 3.02 #113]

Sample Condition: Cool Yes No
 Intact Yes No

CHECKED BY: [Signature] (Initials)

REMARKS: Please email results and copy of CoC to pm@etechnv.com.

FORM-006
 Revision 1.0
 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

January 04, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COOPER JAL UNIT # 201

Enclosed are the results of analyses for samples received by the laboratory on 01/03/23 15:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/03/2023	Sampling Date:	12/30/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Shalyn Rodriguez
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 2 @ 5' (H230006-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	01/04/2023	ND	416	104	400	0.00	

Sample ID: V 4 @ 5' (H230006-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	01/04/2023	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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.

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 #:
 Project #: 17122 Project Owner: Legacy
 Project Name: Cooper Jail Unit 201
 Project Location: Rural Lea County, NM
 Sampler Name: Miguel Ramirez
 P.O. #:
 Company: Etech Environmental
 Attn: Joel Lowry
 Address: 2617 W. Marland
 City: Hobbs
 State: NM Zip: 88240
 Phone #: (575) 264-9884
 Fax #:
 FOR LAB USE ONLY

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 :					
1133000V	V2 @ 5'	G	1			X				12/30/22		X		
	V4 @ 5'	G	1			X				12/30/22		X		

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

Relinquished By: *[Signature]* Date: 1-3-23
 Received By: *[Signature]* Date: 1-3-23
 Relinquished By: *[Signature]* Date: 1-3-23
 Received By: *[Signature]* Date: 1-3-23
 Delivered By: (Circle One) - 24/C.O.C. :
 Sampler - UPS - Bus - Other: - 3.0 - #113
 Sample Condition: Cool Intact
 Checked By: *[Signature]*
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:
 Please email results and copy of CoC to pm@etechnv.com.

FORM-006
Revision 1.0

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



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

December 20, 2022

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COOPER JAL UNIT # 201

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 1 @ 0' (H225906-01)

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	12/17/2022	ND	2.13	107	2.00	5.45	
Toluene*	<0.050	0.050	12/17/2022	ND	2.24	112	2.00	5.63	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.21	111	2.00	6.51	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.78	113	6.00	5.93	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 1 @ 1' (H225906-02)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.3 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 2 @ 0' (H225906-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.1 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 2 @ 3' - R (H225906-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	12/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 3 @ 0' (H225906-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 3 @ 4' (H225906-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	12/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	198	98.8	200	4.22	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 4 @ 0' (H225906-07)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	12/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 68.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.7 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 4 @ 2' - R (H225906-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	12/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.5 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 5 @ 0' (H225906-09)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: V 5 @ 1' (H225906-10)

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	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 70.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.2 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: SH 1 @ 0' (H225906-11)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 74.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.3 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: SH 1 @ 1' (H225906-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 64.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.2 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: SH 2 @ 0' (H225906-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 68.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.7 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: SH 2 @ 1' (H225906-14)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.6 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: EH 1 @ 0' (H225906-15)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.4 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: EH 1 @ 1' (H225906-16)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 67.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.6 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: EH 2 @ 0' (H225906-17)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 59.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 62.5 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: EH 2 @ 1' (H225906-18)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.6 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: EH 3 @ 0' (H225906-19)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.7 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: EH 3 @ 1' (H225906-20)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.4 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: WH 1 @ 0' (H225906-21)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.08	
Toluene*	<0.050	0.050	12/17/2022	ND	2.14	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.12	106	2.00	3.90	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.49	108	6.00	3.84	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.8 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: WH 1 @ 1' (H225906-22)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: WH 2 @ 0' (H225906-23)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: WH 2 @ 1' (H225906-24)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 102 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: NH 1 @ 0' (H225906-25)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.2 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: NH 1 @ 1' (H225906-26)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEX	<0.300	0.300	12/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	186	92.8	200	5.30	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	193	96.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.4 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: NH 2 @ 0' (H225906-27)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/17/2022	ND	2.05	102	2.00	2.99		
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80		
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87		
Total BTEX	<0.300	0.300	12/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	202	101	200	8.71		
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	188	94.1	200	8.05		
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND						

Surrogate: 1-Chlorooctane 87.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.6 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: NH 2 @ 1' (H225906-28)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	202	101	200	8.71	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	188	94.1	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: RP 1 @ 4' (H225906-29)

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	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	0.348	0.150	12/17/2022	ND	6.25	104	6.00	2.87	GC-NC1
Total BTEX	0.348	0.300	12/17/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 135 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	12/16/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	23.4	10.0	12/16/2022	ND	202	101	200	8.71	
DRO >C10-C28*	354	10.0	12/16/2022	ND	188	94.1	200	8.05	
EXT DRO >C28-C36	60.1	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 101 % 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.

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:	12/14/2022	Sampling Date:	12/13/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	COOPER JAL UNIT # 201	Sampling Condition:	Cool & Intact
Project Number:	17122	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - LEA CO NM		

Sample ID: RP 1 @ 5' (H225906-30)

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	12/17/2022	ND	2.05	102	2.00	2.99	
Toluene*	<0.050	0.050	12/17/2022	ND	2.04	102	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/17/2022	ND	2.03	102	2.00	2.80	
Total Xylenes*	<0.150	0.150	12/17/2022	ND	6.25	104	6.00	2.87	
Total BTEX	<0.300	0.300	12/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1980	16.0	12/16/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.4	10.0	12/19/2022	ND	202	101	200	8.71	
DRO >C10-C28*	339	10.0	12/19/2022	ND	188	94.1	200	8.05	
EXT DRO >C28-C36	59.3	10.0	12/19/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
A-01 CCV recovery high, all samples ND. Data not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=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.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.	P.O. #:
Project Manager: Zach Conder	Company: Etech Environmental
Address: 2617 W Marland	Attn: Joel Lowry
City: Hobbs	Address: 2617 W. Marland
State: NIM Zip: 88240	City: Hobbs
Phone #: (575) 264-9884 Fax #:	State: NIM Zip: 88240
Project #: 17122 Project Owner: Legacy	Phone #: (575) 264-9884
Project Name: Cooper Jail Unit 201	Fax #:
Project Location: Rural Lea County, NM	
Sampler Name: Matthew Grieco	

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 :			ACID/BASE:	ICE / COOL	OTHER :			
H225906																	
1	V1 @ 0'	G	1	X								X	X	X			
2	V1 @ 1'	G	1	X								X	X	X			
3	V2 @ 0'	G	1	X								X	X	X			
4	V2 @ 3'-R	G	1	X								X	X	X			
5	V3 @ 0'	G	1	X								X	X	X			
6	V3 @ 4'	G	1	X								X	X	X			
7	V4 @ 0'	G	1	X								X	X	X			
8	V4 @ 2'-R	G	1	X								X	X	X			
9	V5 @ 0'	G	1	X								X	X	X			
10	V5 @ 1'	G	1	X								X	X	X			

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

Relinquished By: [Signature]	Date: 12-14-22	Received By: [Signature]	Date: 12-14-22
Relinquished By: [Signature]	Time: 1450	Received By: [Signature]	Time:

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: -5.8c/16.4c

Sample Condition: Intact Cool Yes No

CHECKED BY: [Signature] (Initials)

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.



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

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 #: Hobbs
 Project #: 17122 Project Owner: Legacy
 Project Name: Cooper Jal Unit 201
 Project Location: Rural Lea County, NM
 Sampler Name: Matthew Grieco

P.O. #: Etech Environmental
 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 :					
H225906														
11	SH1 @ 0'	G	1	X						12/13/22		X	X	
12	SH1 @ 1'	G	1	X						12/13/22		X	X	
13	SH2 @ 0'	G	1	X						12/13/22		X	X	
14	SH2 @ 1'	G	1	X						12/13/22		X	X	
15	EH1 @ 0'	G	1	X						12/13/22		X	X	
14	EH1 @ 1'	G	1	X						12/13/22		X	X	
17	EH2 @ 0'	G	1	X						12/13/22		X	X	
18	EH2 @ 1'	G	1	X						12/13/22		X	X	
19	EH3 @ 0'	G	1	X						12/13/22		X	X	
20	EH3 @ 1'	G	1	X						12/13/22		X	X	

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

Relinquished By: [Signature]
 Date: 12-14-22
 Time: 1450
 Received By: [Signature]
 Date: [Blank]
 Time: [Blank]

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: -5.8c/-6.4c
 Sample Condition: Cool Intact
 Yes No
 Yes No
 CHECKED BY: [Signature]

Please email results and copy of CoC to pm@etechnv.com.

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

Company Name: Etech Environmental & Safety Solutions, Inc.		P.O. #:
Project Manager: Zach Conder		Company: Etech Environmental
Address: 2617 W Marland		Attn: Joel Lowry
City: Hobbs	State: NM Zip: 88240	Address: 2617 W. Marland
Phone #: (575) 264-9884	Fax #: (575) 264-9884	City: Hobbs
Project #: 17122	Project Owner: Legacy	State: NM Zip: 88240
Project Name: Cooper Jal Unit 201		Phone #: (575) 264-9884
Project Location: Rural Lea County, NM		Fax #:
Sampler Name: Matthew Grieco		

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 :					
21	WH1 @ 0'	G	1	X						12/13/22		X	X	
22	WH1 @ 1'	G	1	X						12/13/22		X	X	
23	WH2 @ 0'	G	1	X						12/13/22		X	X	
24	WH2 @ 1'	G	1	X						12/13/22		X	X	
25	NH1 @ 0'	G	1	X						12/13/22		X	X	
26	NH1 @ 1'	G	1	X						12/13/22		X	X	
27	NH2 @ 0'	G	1	X						12/13/22		X	X	
28	NH2 @ 1'	G	1	X						12/13/22		X	X	
29	RP1 @ 4'	G	1	X						12/13/22		X	X	
30	RP1 @ 5'	G	1	X						12/13/22		X	X	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising under this contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. 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: <i>[Signature]</i>	Date: 12-14-22	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: 1/4/23	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: -5, 8 e / -6, 4 e	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	70

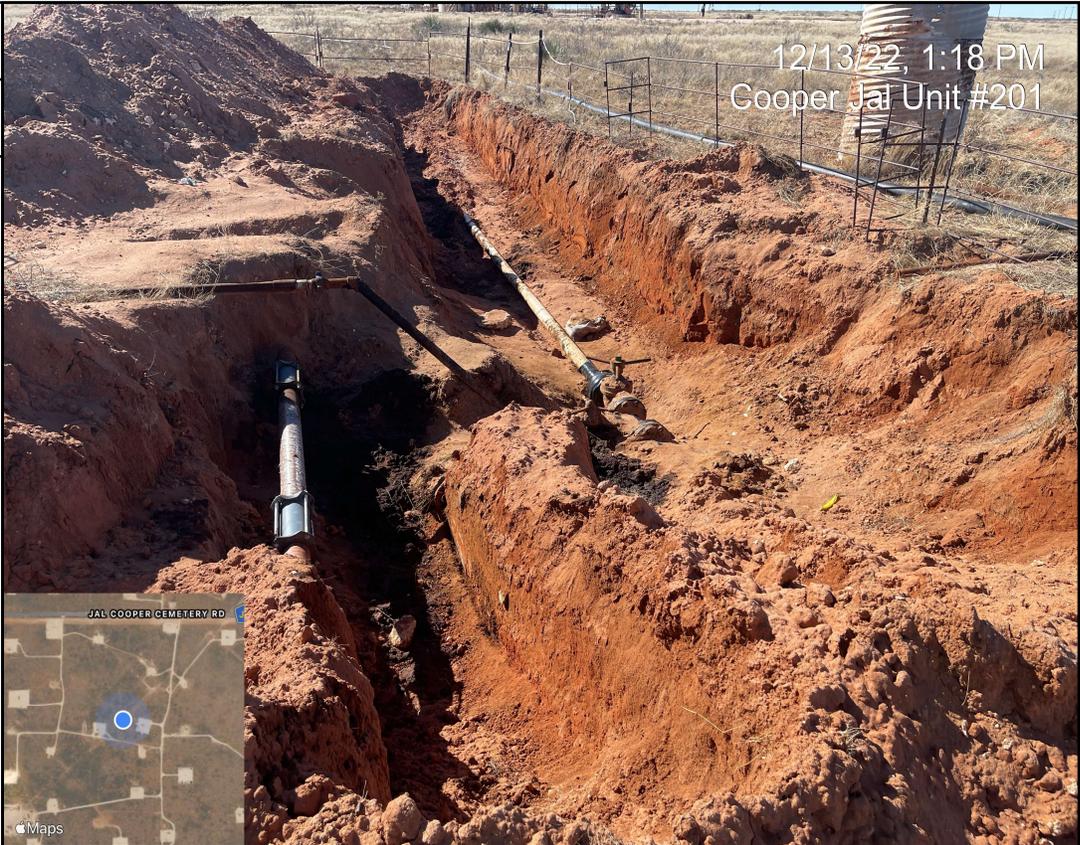
FORM-006
 Revision 1.0
 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Appendix D

Photographic Log

Photographic Log

Photo Number: #1	 <p>12/13/22, 10:12 AM +32.206002,-103.212305 Cooper Jal Unit #201</p>
Photo Direction: Southwest	
Photo Description: Affected area.	

Photo Number: #2	 <p>12/13/22, 1:18 PM Cooper Jal Unit #201</p>
Photo Direction: Southwest	
Photo Description: Open repair trench.	

Photographic Log

Photo Number: #3	 <p>12/13/22, 1:52 PM Cooper Jal Unit #201</p> <p>JAL COOPER CEMETERY RD</p> <p>Maps</p>
Photo Direction: Northwest	
Photo Description: Historical hydrocarbon impacts.	

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 182004

CONDITIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 182004
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than five hundred (500) square feet. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.	2/20/2023