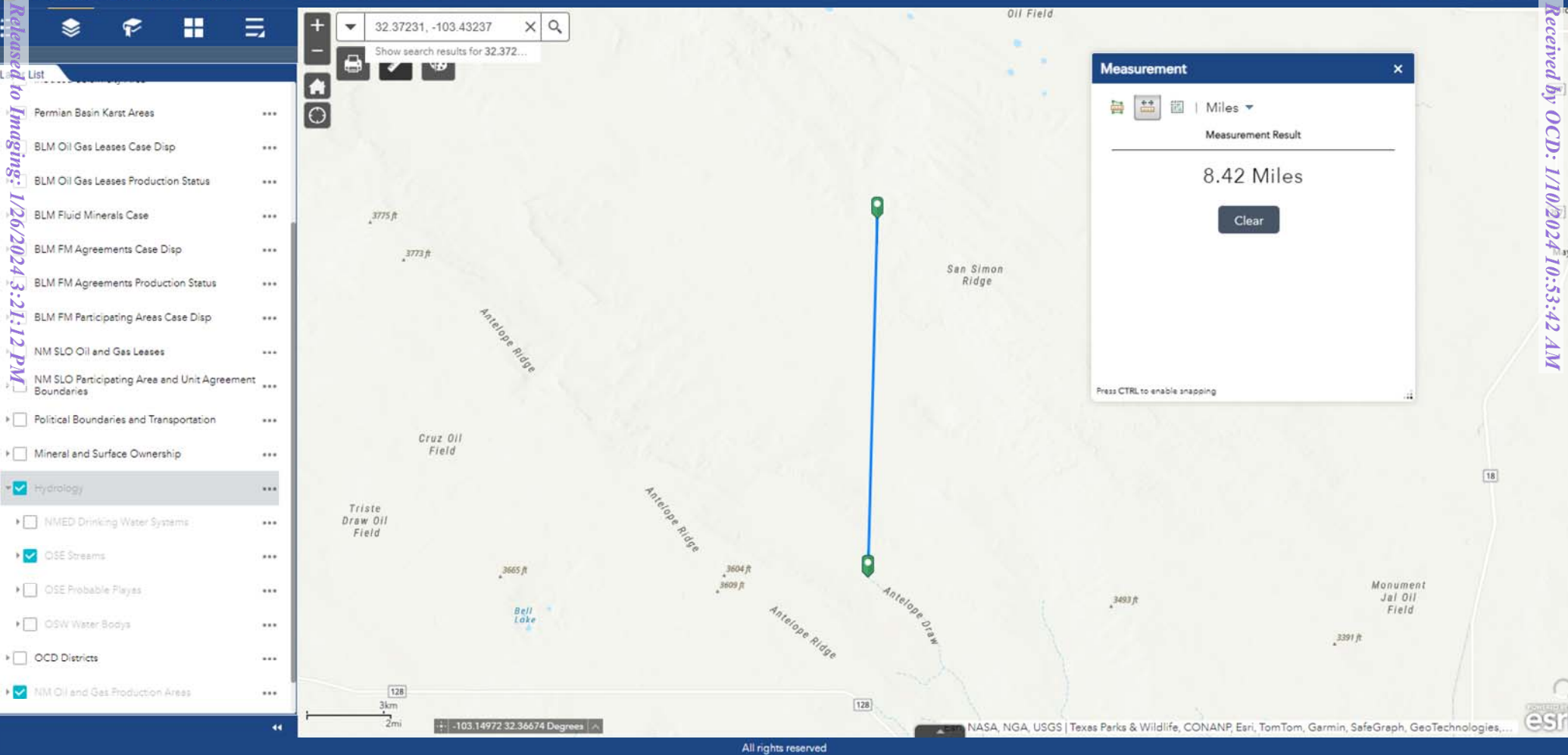
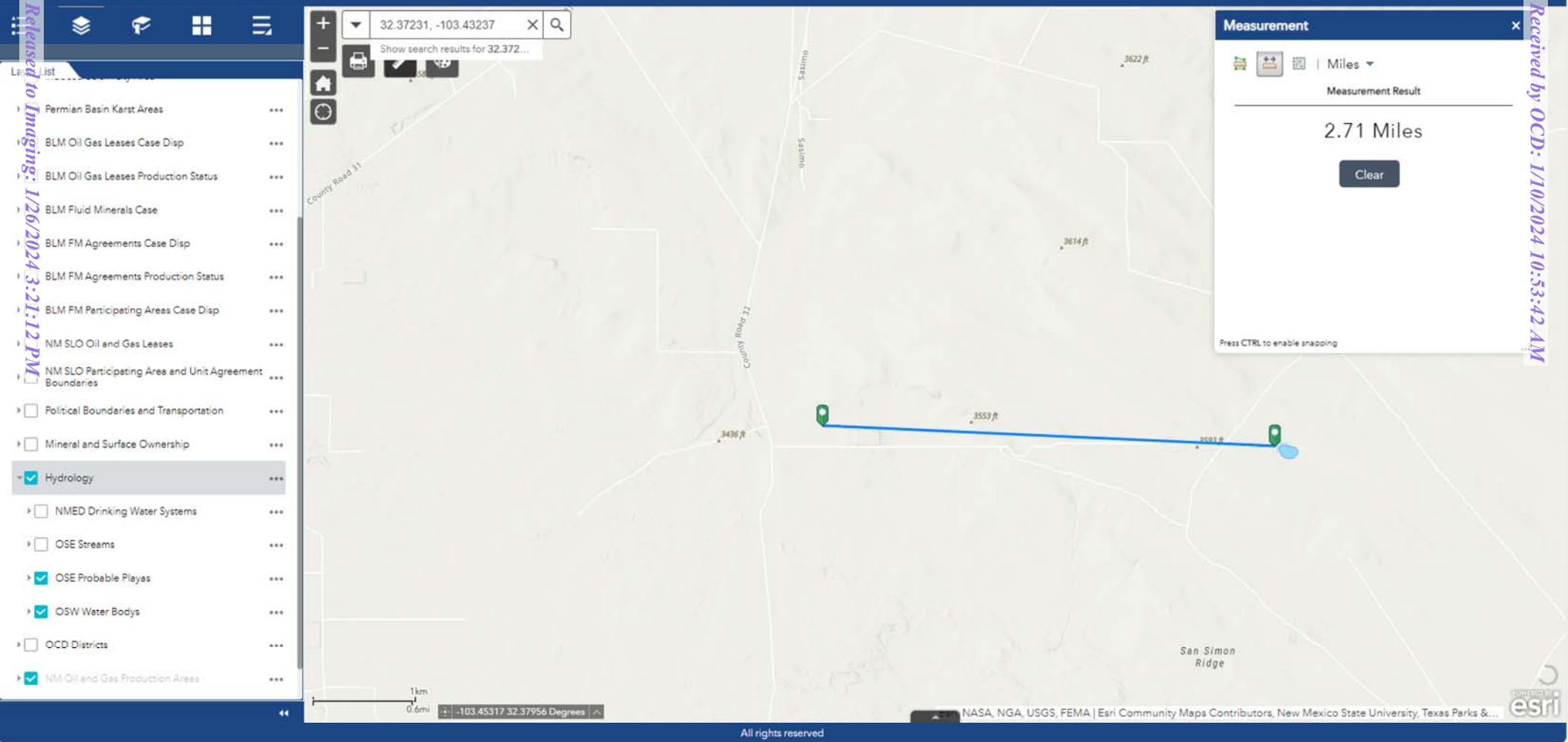


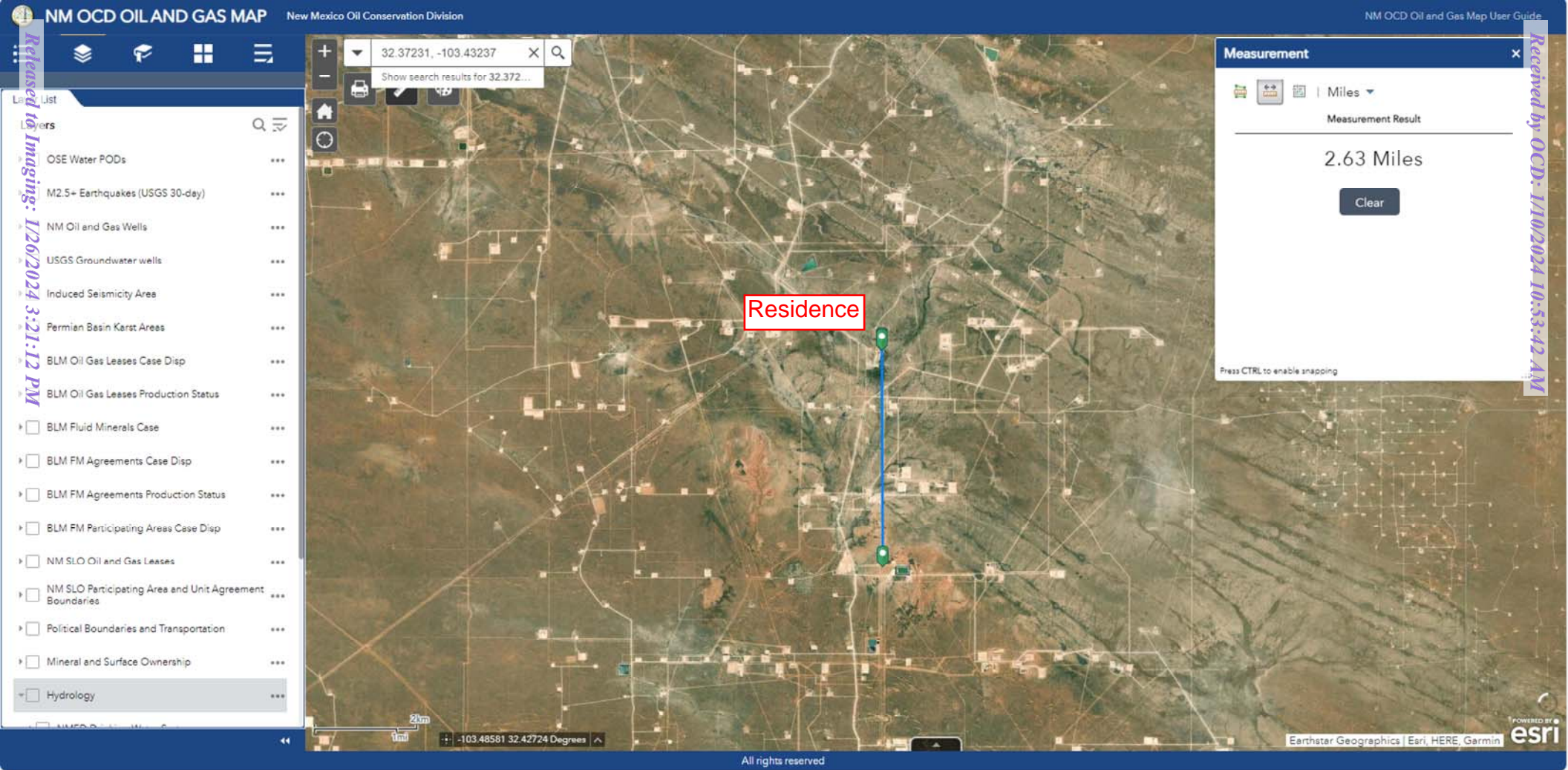
Site Characterization - Water Sources/Courses Determination



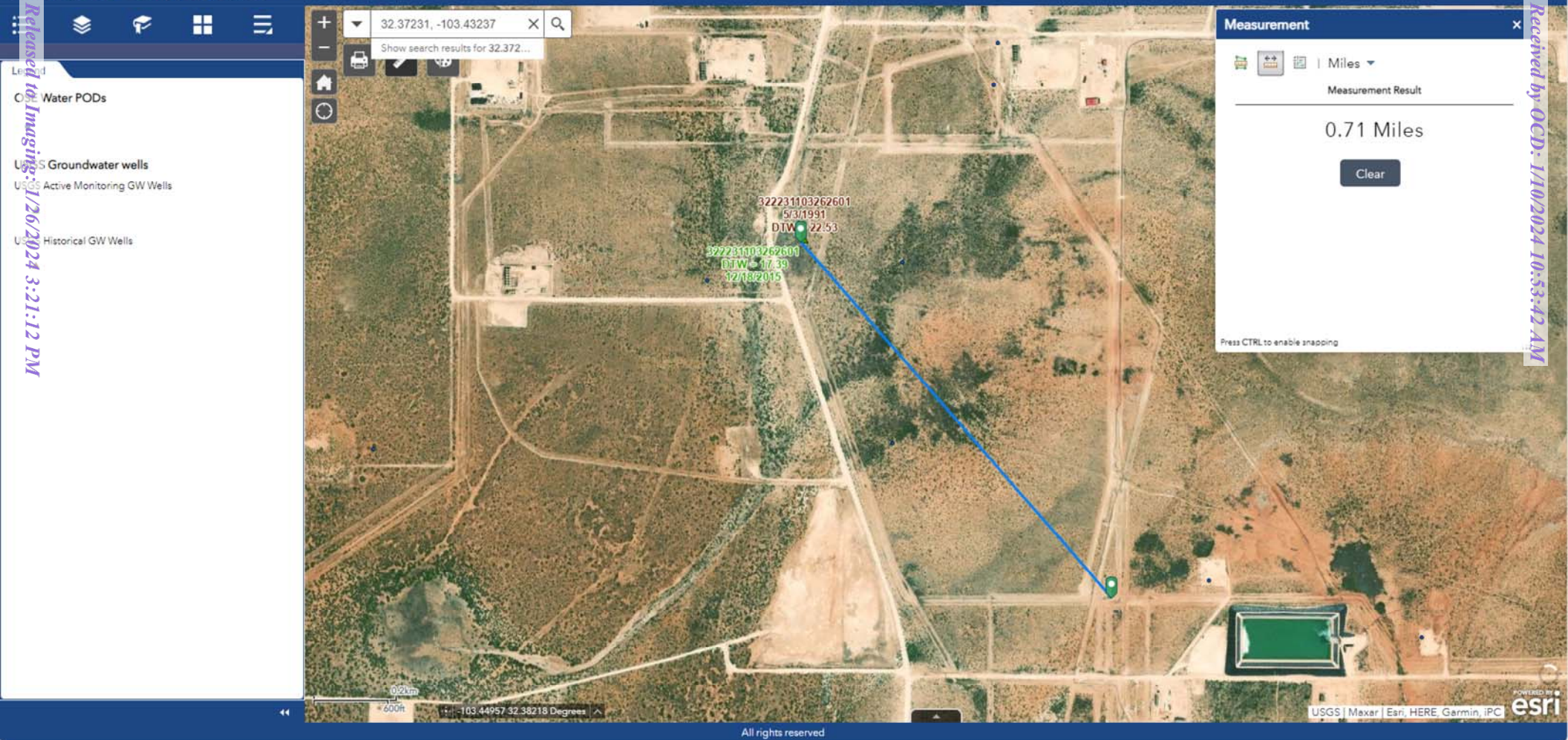
Site Characterization - Lakebed, Sinkholes or Playas



Site Characterization - Occupied Permanent Residence/Institutions



Site Characterization - Water Well Proximity Map



All rights reserved



Site Characterization - Wetlands

BASEMAPS >

MAP LAYERS >

- ☒ Wetlands
- ☒ Wetland
- ☒ Wetland Mapping Areas
- ☒ Data Source
 - ☐ Source Type
 - ☐ Image Scale
 - ☐ Image Year
- ☐ Areas of Interest
- ☐ Managed Lands
- ☐ Historic Wetland Data

Measure

Miles

Measurement Result

0.91 Miles

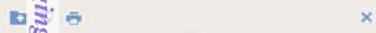
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32.375 | -103.436

Site Characterization - Municipality Proximity Map

Site Characterization - Subsurface Mines

Get Directions History

32.38642, -103.42057

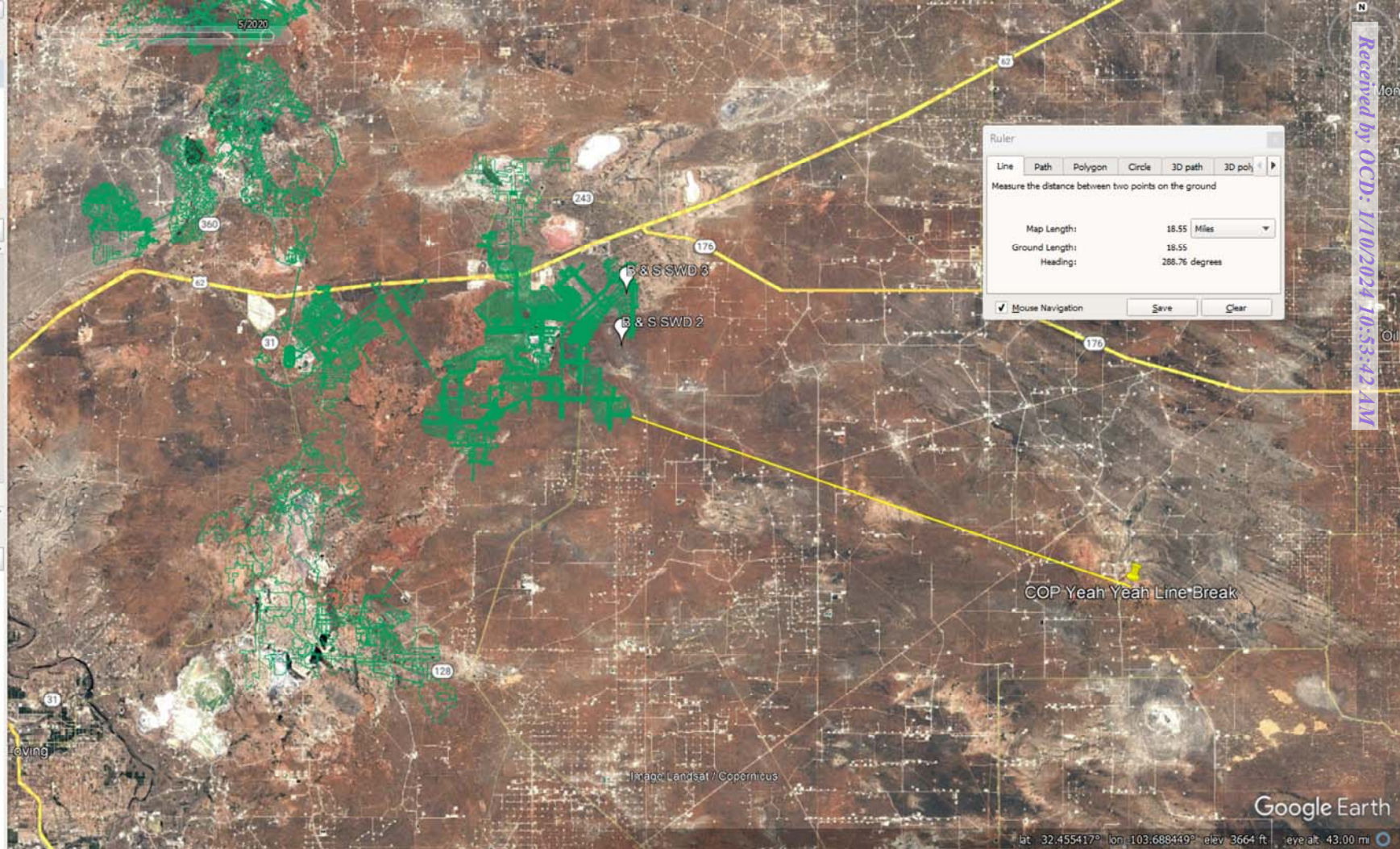


- ☒ Amax Potash
- ☒ Duval Potash
- ☒ Duval Potash
- ☒ Duval Potash
- ☒ Willis Weaver
- ☒ Intrepid Potash
- ☒ Intrepid Potash
- ☒ Intrepid Potash
- ☒ Intrepid Potash
- ☒ Intrepid Potash
- ☒ Mosaic Potash
- ☒ Mosaic Potash
- ☒ Mosaic Potash
- ☒ B & S SWD 2
- ☒ B & S SWD 3

COP

Layers

- ☒ Primary Database
- ☒ Announcements
- ☒ Borders and Labels
- ☒ Places
- ☒ Photos
- ☒ Roads
- ☒ 3D Buildings
- ☒ Weather
- ☒ Gallery
- ☒ More
- ☒ Terrain



Ruler

Line Path Polygon Circle 3D path 3D poly

Measure the distance between two points on the ground

Map Length: 18.55 Miles

Ground Length: 18.55

Heading: 288.76 degrees

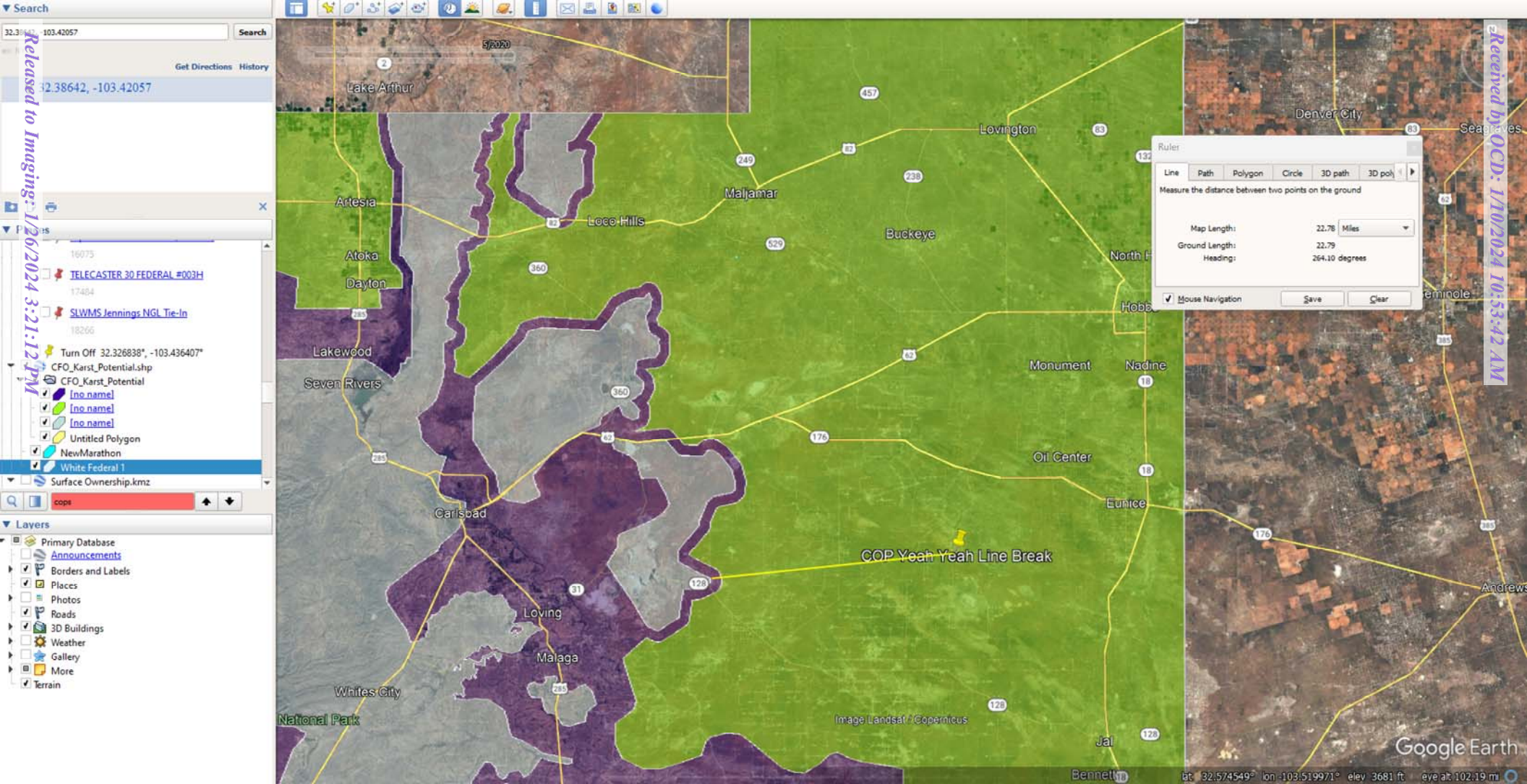
☒ Mouse Navigation

Save Clear

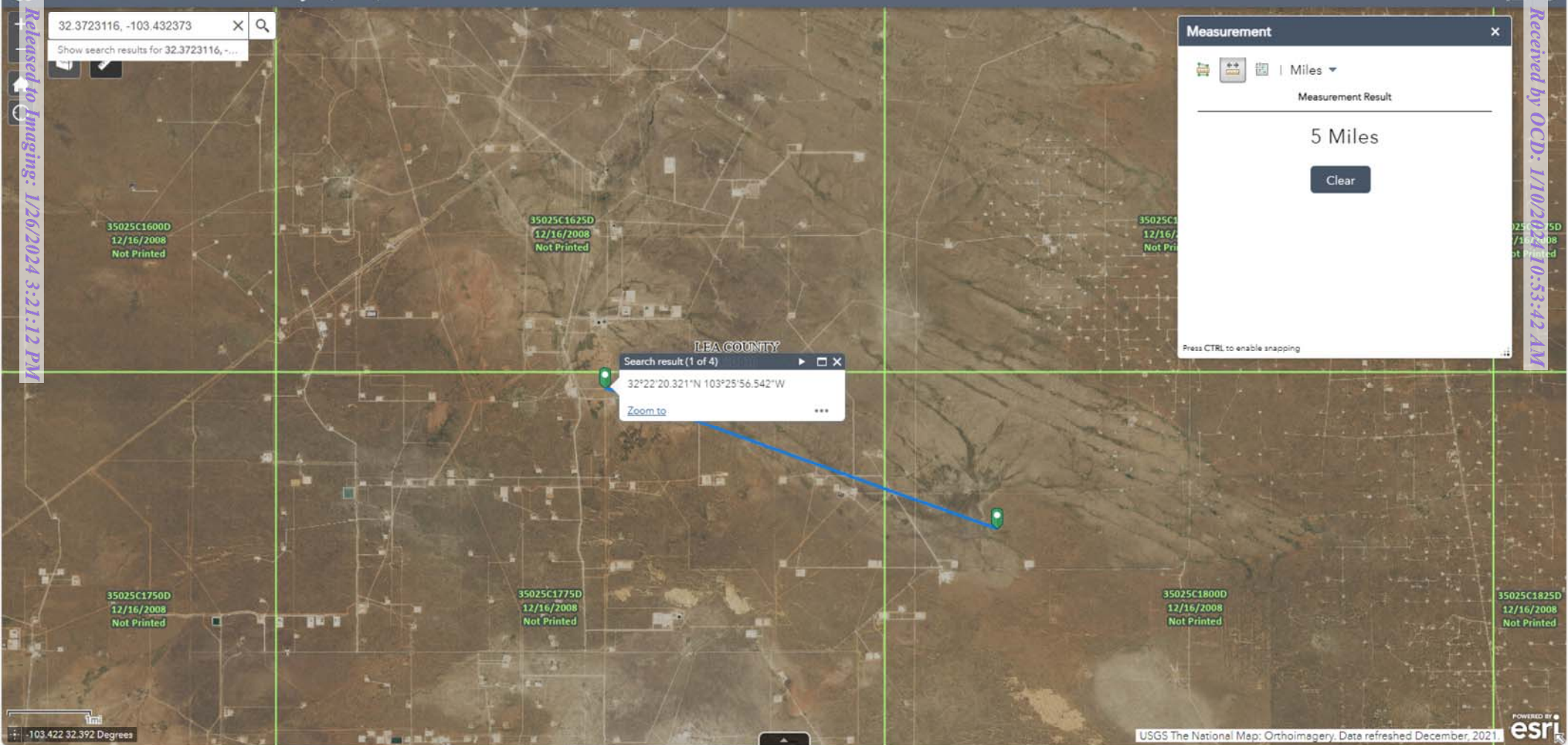
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Google Earth

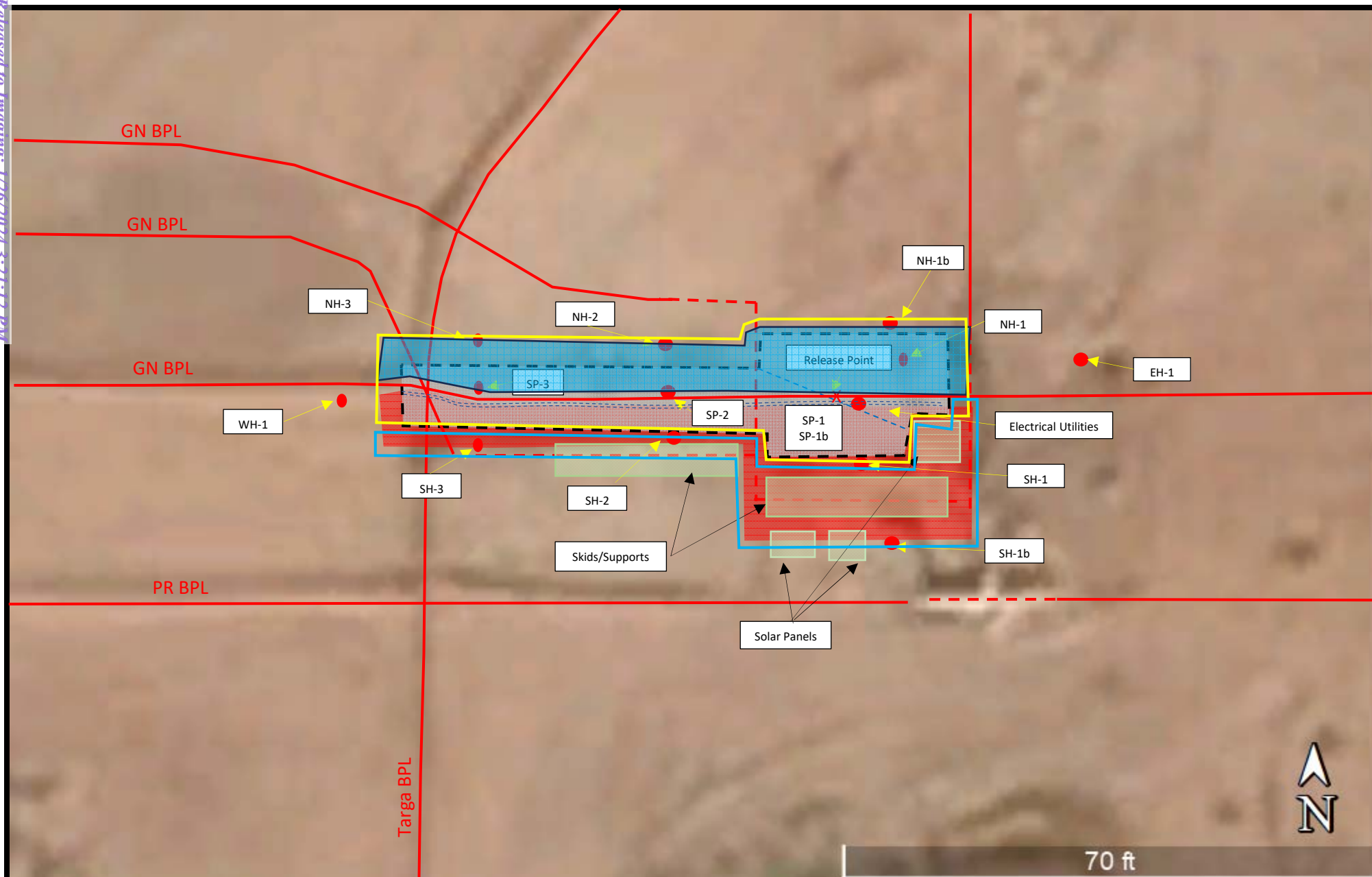
Site Characterization - Karst



Site Characterization - 100-Year Floodplain



Reclamation/Remediation Map



Legend:

- | | |
|---|--|
| ● Sample Point | Facility Infrastructure |
| Excavated Area | Area in need of Remediation |
| — Buried Pipeline | Area in need of Reclamation |
| - - - Surface Pipeline | Remediated Area |
| - - - Electrical | Reclaimed Area |

Reclamation Remediation Map
 Goodnight Midstream Permian, LLC
 COP Yeah Yeah Line Break
 GPS: 32.3723116, -103.432373
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted:

Checked: jwl

Date:

1/9/24

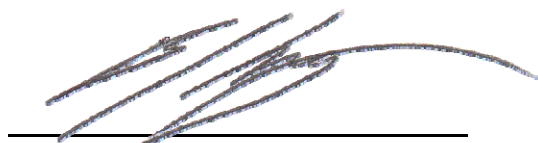
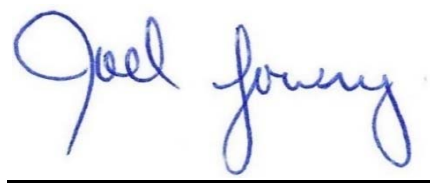
Site Characterization Report, Remediation Plan and Partial Deferral Request

Goodnight Midstream Permian, LLC COP Yeah Yeah Line Break

Lea County, New Mexico
Unit Letter P, Section 23, Township 22 South, Range 34 East
Latitude 32.3723116 North, Longitude 103.432373 West
NMOCD Reference No. nAPP2325020061

Prepared By:

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


Ben J. Arguijo
Joel W. Lowry

Midland • San Antonio • Lubbock • Hobbs • Lafayette

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APPENDICES

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

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC (Goodnight), has prepared this Site Characterization Report, Remediation Plan and Partial Deferral Request for the release site known as the COP Yeah Yeah Line Break (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.3723116 Longitude: -103.432373

Provided GPS are in WGS84 format.

Site Name: <u>COP Yeah Yeah Line Break</u>	Site Type: <u>Pipeline</u>
Date Release Discovered: <u>9/6/2023</u>	API # (if applicable):

Unit Letter	Section	Township	Range	County
P	23	22S	34E	Lea

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

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>670</u>	Volume Recovered (bbls) <u>670</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:

The release was attributed to a line rupturing while contractor was performing maintenance. The release was limited to an open bell hole.

Initial Response

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

Previously submitted portions of the New Mexico Oil Conservation Division (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?	855 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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) 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*‡
855 Feet	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	-	-
	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 BACKGROUND INFORMATION

On August 3, 2023, failure of a weld on a 12-inch poly line resulted in a release. The failure occurred while adjusting the buried pipeline and associated riser to connect the newly installed COP Yeah Yeah pipeline to the Jalapeno Gathering System. The initial C-141 indicated approximately 670 barrels (bbls) of produced water were released. The release was limited to a large bell hole that had been opened up to facilitate the safe connection of a new pipeline into the system. During initial response activities, on-site hydrovacs and vacuum trucks recovered approximately 670 bbls of free-standing fluid from within the open bell hole. Fluid from the release filled the bell hole to within 3-4 feet of the surface. The original bell hole was excavated over the course of approximately two (2) weeks utilizing multiple hydrovacs due to the abundance of buried utilities including but not limited to three (3) Goodnight buried pipelines, two (2) Permian buried pipelines, one (1) Targa buried gas line, six (6) buried fiber optic lines and at least one (1) electric line. The open bell hole is bound to the south and east by above ground risers/tie-ins and associated skids consisting of SCADA equipment, multiple valves, tie-ins and solar panels.

5.0 INITIAL SITE ASSESSMENT

On September 12, 2023, Etech conducted an initial investigation at the release site. During the initial investigation, a hand auger was utilized to advance a soil bore (SP-1) in the floor of the bell hole proximate to the release point in an effort to determine the vertical extent of soil impacts. During the advancement of the hand-augered soil bore, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector and/or concentrations of chloride utilizing a Hach Quantab[®] chloride test kit. The hand-augered soil bore was advanced from the current floor of the excavation (~10 ft. bgs) to a depth of 13 ft. bgs. During the advancement of the soil bore, a relatively dry, thick "fat clay" layer was encountered. Two (2) soil samples (SP-1 @ 10' and SP-1 @ 13') were collected and submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of chloride concentrations which were determined to be 1,200 mg/kg and 848 mg/kg, respectively. Based on field observations and laboratory analytical results, the thick clay layer appeared to have been effective at limiting the vertical migration of contaminants.

In addition, hand-augered soil bores (NH - 1, EH -1, SH -1, and WH-1) were advanced around the edges of the open bell hole in an effort to determine if horizontal migration occurred at depth. During the advancement of the hand-augered soil bores, nine (9) soil samples (EH-1 @ 4', EH-1 @ 8', NH-1 @ 4', NH-1 @ 7', SH-1 @ 5', SH-1 @ 7', WH-1 @ 4', WH-1 @ 6' and WH-1 @ 8') were collected and submitted to the laboratory for analysis. Laboratory analytical results indicated chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of SH-1 @ 5' and SH -1 @ 7', which exhibited chloride concentrations of 640 mg/kg and 1,540 mg/kg, respectively. Based on laboratory analytical results and field observations it was determined that horizontal migration of contaminants at depth may have been limited to the area characterized by sample point SH-1. Site and sample location maps are provided as Figures 3a and 3b. Soil profile logs are provided as Appendix B. A soil chemistry table is provided as Table 1. Laboratory analytical reports are provided in Appendix C.

On September 19 and 21, 2023, Etech revisited the release site in an effort to further characterize the vertical and horizontal extent of soil impacts. During the site visit, a hand auger was utilized to advance an additional soil bore (SP-1b) proximate to SP-1 and the release point. During the advancement of the soil bore, four (4) soil samples (SP-1b @ 10', SP-1b @ 12', SP-1b @ 14' and SP-1b @ 16') were collected and submitted to the laboratory for analysis of chloride concentrations, which were determined to be 2,480 mg/kg, 976 mg/kg, 752 mg/kg and 560 mg/kg, respectively. In addition, one (1) soil bore (SP-2) was advanced in the central portion of the bell hole. During the advancement of the soil bore, four (4) soil samples (SP-2 @ 10', SP-2 @ 12', SP-2 @ 14' and SP-2 @ 16') were collected and submitted to the laboratory for analysis of chloride concentrations which were determined to be 9,200 mg/kg, 352 mg/kg, 464 mg/kg and 640 mg/kg, respectively. Finally, one (1) soil bore (SP-3) was advanced in the western portion of the bell hole. During the advancement of the soil bore, three (3) soil samples (SP-3 @ 10', SP-3 @ 12' and SP-3 @ 14') were collected and submitted to the laboratory for analysis of chloride concentrations which were determined to be 2,480 mg/kg, 304 mg/kg and 432 mg/kg, respectively. Based on laboratory analytical results, the thick clay layer appeared to have been effective at limiting the vertical migration of contaminants.

In addition, sixteen (16) soil samples (ESW @ 0-4', ESW @ 4-F, NSW-1 @ 0-4', NSW-1 @ 4-F, NSW-2 @ 0-4', NSW-2 @ 4-F, NSW-3 @ 0-4', NSW-3 @ 4-F, SSW-1 @ 0-4', SSW-1 @ 4-F, SSW-2 @ 0-4', SSW-2 @ 4-F, SSW-3 @ 0-4', SSW-3 @ 4-F, WSW-1 @ 0-4' and WSW-1 @ 4-F) were collected from the current sidewalls of the open bell hole. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were less than the laboratory method detection limit (MDL) in each of the submitted soil samples, with the exception of soil samples NSW-1 @ 0-4', NSW-1 @ 4-F and NSW-2 @ 0-4', which exhibited TPH concentrations of 15.7 mg/kg, 460 mg/kg and 103 mg/kg, respectively. Analytical results indicated chloride concentrations ranged from 160 mg/kg in soil sample SSW-2 @ 0-4' to 13,800 mg/kg in soil sample NSW-1 @ 4'-F.

Finally, deeper hand-augered soil bores (NH-1b, NH-2, NH-3, SH-1B, SH-2, SH-3 and WH-1) were advanced along the edges of the open excavation in an effort to further characterize the horizontal extent of soil impacts and investigate the potential for horizontal migration at greater depths proximate to the open bell hole. The hand-augered soil bores were advanced to depths ranging from 8 to 10 ft. bgs. During the advancement of the hand-augered soil bores, thirty (30) soil samples (NH-1B @ 2', NH-1B @ 4', NH-1(b) @ 6', NH-1(b) @ 8' NH-1(b) @ 10', NH-2 @ 2', NH-2 @ 4', NH-2 @ 6', NH-2 @ 8', NH-2 @ 10', NH-3 @ 2', NH-3 @ 4', NH-3 @ 6', NH-3 @ 8', NH-3 @ 10', SH-1B @ 2', SH-1B @ 4', SH-1B @ 6', SH-1B @ 8'-R, SH-2 @ 2', SH-2 @ 4', SH-2 @ 6', SH-2 @ 8', SH-2 @ 10', SH-3 @ 2', SH-3 @ 4', SH -3 @ 6', SH -3 @ 8', SH - 3 @ 10' and WH-1 @ 10') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 32.0 mg/kg in soil samples SH1B @ 4' and SH-2 @ 4' to 544 mg/kg in soil sample SH-2 @ 2'. Based on laboratory analytical results from horizontal delineation soil samples it was determined impacts from the produced water release did not migrate horizontally at depth beyond the areas characterized by sample points NH-1b, NH-2, NH-3, SH-1B, SH-2, SH-3, EH-1 and WH-1.

On September 26, 2023, Etech revisited the Site in an effort to further characterize the vertical extent of soil impacts in the areas characterized by sample points SP-1, SP-2 and SP-3 with the goal of delineating to 20 ft. bgs. During the site visit, the original bore holes were re-entered with a larger diameter hand auger equipped with an extension. During the advancement of the soil bores, seven (7) soil samples (SP-1 @ 18', SP-1 @ 20', SP-2 @ 16', SP-2 @ 18', SP-2 @ 20', SP-3 @ 16' and SP-3 @ 18') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 496 mg/kg in soil sample SP-2 @ 18' to 1,550 mg/kg in soil sample SP-2 @ 16'. **Elevated and unexpected chloride concentrations detected in sample points SP-2 and SP-3 (denoted in grey italics on Table 1) may be attributed to mud/material sluffing into the bore hole or the auger scraping the walls of the bore hole while attempting to collect samples at depth from within the bottom of the bell hole. The data does not appear to be representative of site conditions.**

6.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, Goodnight Midstream Permian, LLC, proposes the following proposed remediation plan designed to bring the Site into compliance with the NMOCD and Landowner:

- Utilizing mechanical equipment, advance the floor of the current open excavation on the north side of the subject pipeline until laboratory analytical results from excavation confirmation soil samples indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria (an estimated depth of 14 to 20 feet bgs). It should be noted that this omits certain data collected on September 26, 2023, which is inferred to not be representative of site conditions.
- The sidewalls of the current open excavation will be advanced toward the north, east and west until laboratory analytical results indicate BTEX, TPH and chloride concentrations are below the conditions of the Surface Use Agreement (SUA) and the NMOCD Closure Criteria. The sidewalls of the current open excavation will be advanced toward the south and west to the maximum extent practicable given the abundance and nature of above- and below-ground utilities including, but not limited to, a line cross of two (2) Goodnight buried pipelines and one (1) Targa buried high-pressure gas line toward the west, and above ground risers and associated skids consisting of SCADA equipment, multiple valves, tie-ins and solar panels toward the south.

- Excavated material will be temporarily stockpiled on-site atop an impermeable plastic liner then transported to an NMOCD-approved surface waste facility.
- Upon completion of excavation activities, the requisite excavation confirmation and deferral characterization soil samples will be collected and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Impacted soil affected above the NMOCD Closure Criteria remaining in-situ will be further investigated and remediated upon abandoning and decommissioning the facility or upon removal of the subject surface equipment and/or during a major facility reconstruction.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted "like" material.

Goodnight maintains further advancement of the excavation on the south side of the subject pipeline beneath the above ground risers/tie-ins and associated skids consisting of SCADA equipment, multiple valves, tie-ins and solar panels in the southern portion would result in a major facility deconstruction and poses a risk to human health, safety and the environment.

7.0 DEFERRAL REQUEST

Etech maintains further advancement of the excavation south of the subject pipeline would results in a major facility deconstruction and poses a risk to human health, safety and the environment. Based on laboratory analytical results of deferral characterization and delineation soil samples, Etech, on behalf of Goodnight, requests permission to defer remediation of impacted soil affected above the NMOCD Closure Criteria present on the south side of the subject pipeline, adjacent to and beneath the aboveground risers/tie-ins and associated skids consisting of SCADA equipment, multiple valves, tie-ins and solar panels in the southern portion of the remediation Site.

It is estimated that approximately 120 cubic yards (cy) of chloride-impacted soil affected above the NMOCD Closure Criteria will remain in-situ within the approximate 800 sq. ft. area. depicted in Figure 3a - Site and Sample Location Map (Delineation & Deferral). Remediation and final reclamation of chloride-impacted soil affected above the NMOCD Closure Criteria remaining in-situ will be completed in accordance with 19.15.29.12 and 19.15.29.13 NMAC upon decommissioning and abandoning the facility.

8.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear feet. A minimum of **one (1)** representative five-point composite confirmation soil sample will be collected from the base of the excavated area representing every **200 square feet**. In the event further advancement of the floor and sidewalls of the excavated area is unsafe, or would require a major facility deconstruction, associated samples will be converted into deferral characterization soil samples and the area will be further delineated.

9.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Partial temporary deferral is estimated to take **four (4) weeks** depending on the timeline receiving necessary approval(s) and coordination with affected operators. Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, it is estimated that approximately **980 cy** of impacted soil is in need of removal.

10.0 RECLAMATION AND RECLAMATION PLAN

Upon receiving laboratory analytical results from excavation confirmation and deferral characterization soil samples, excavated areas will be backfilled with locally-sourced, non-impacted "like" material placed at or near original relative positions. Excavation backfill will be compacted and contoured to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Upon backfilling the excavated area, the affected areas not within the facility boundaries will be reseeded with a landowner-approved seed mixture.

Upon decommission and abandoning the facility in accordance with applicable regulatory guidelines and/or conditions of the SUA, whichever is more stringent, impacted soil affected above the NMOCD Closure Criteria and conditions of the SUA remaining in-situ will be excavated and transported to an NMOCD-approved surface waste facility for disposal. Upon excavating impacted soil affected above the NMOCD Closure Criteria and conditions of the SUA remaining in-situ the excavated area will be backfilled with locally-sourced, non-impacted "like" material placed at or near original relative positions and compacted and contoured to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

11.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Characterization Report, Remediation Plan and Partial Deferral Request to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Goodnight Midstream Permian, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Goodnight Midstream Permian, LLC.

12.0 DISTRIBUTION

Goodnight Midstream Permian, LLC

5910 N Central Expy

Suite 800

Dallas, TX 75206

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

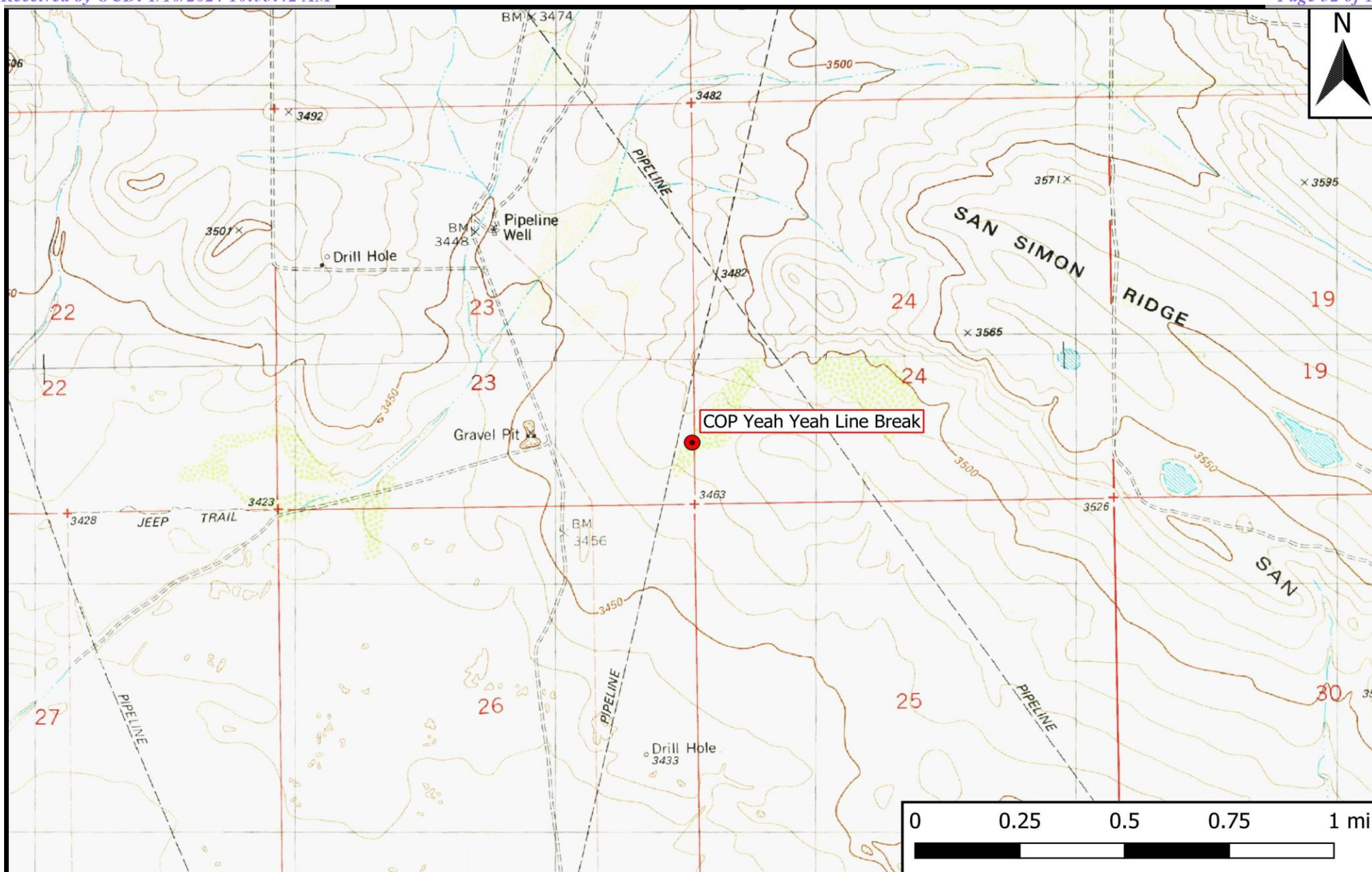
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
 Goodnight Midstream Permian, LLC
 COP Yeah Yeah Line Break
 GPS: 32.372118, -103.432373
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

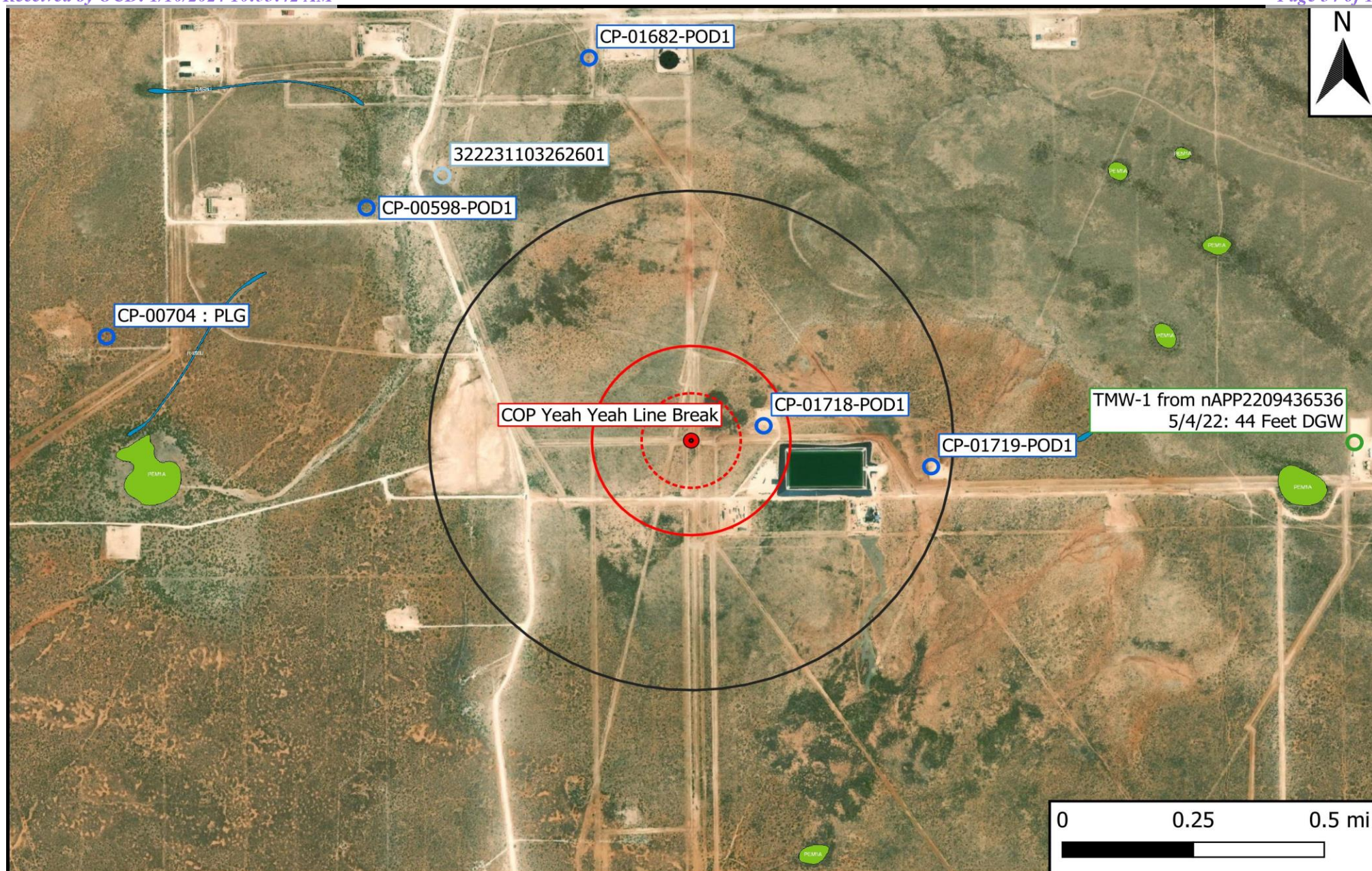
Drafted: mag

Checked: jwl

Date: 9/11/23

Figure 2

Aerial Proximity Map



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

Figure 2
Aerial Proximity Map
Goodnight Midstream Permian, LLC
COP Yeah Yeah Line Break
GPS: 32.372118, -103.432373
Lea County

eTECH
Environmental & Safety Solutions, Inc.

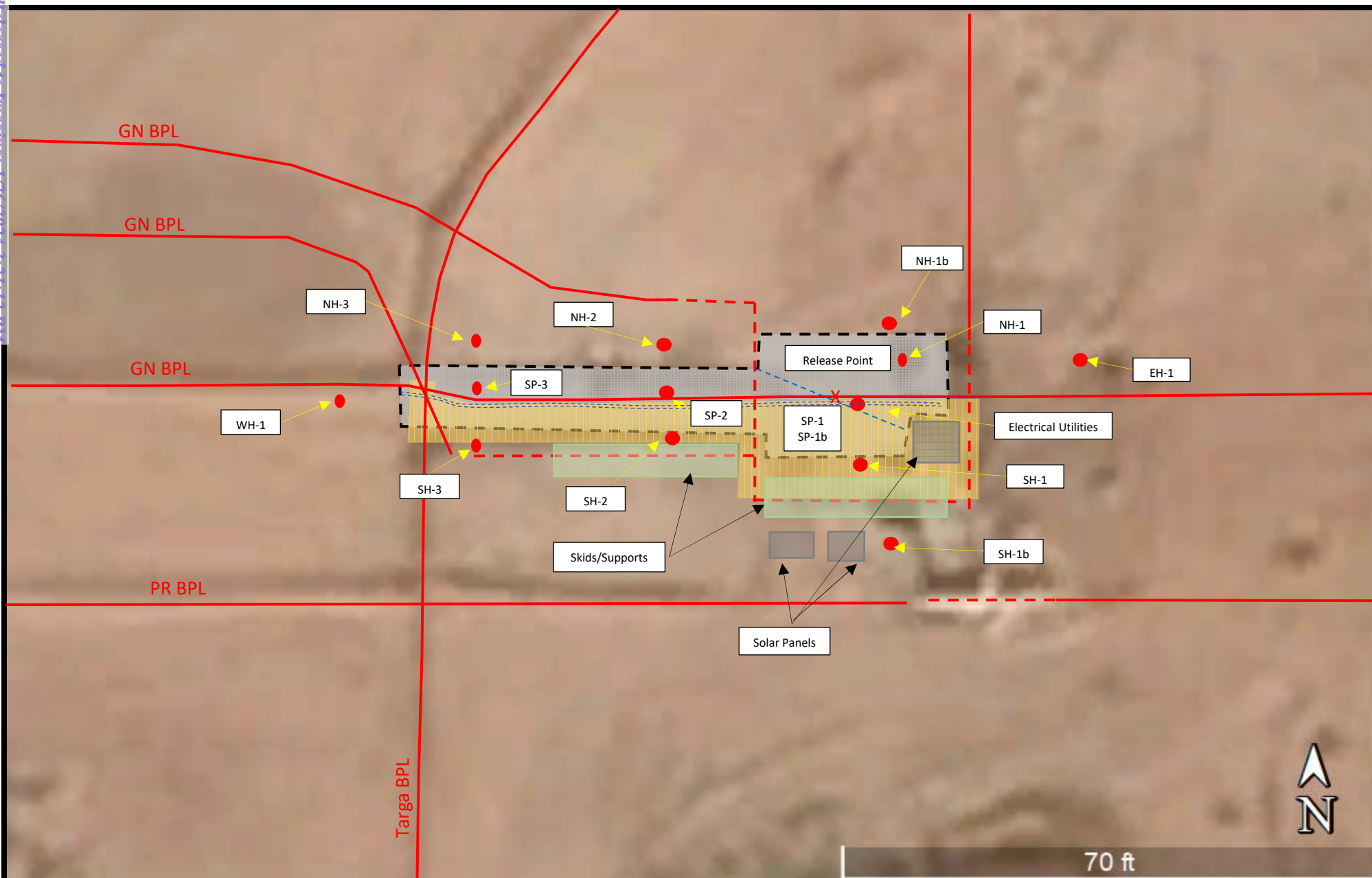
Drafted: mag

Checked: jwl

Date: 9/11/23

Figure 3

Site and Sample Location Mapu



Legend:

- Sample Point
- Excavated Area
- Buried Pipeline
- - - Surface Pipeline
- - - Electrical
- Proposed Deferral Area

Figure 3a

Site and Sample Location Map (Delineation & Deferral)
 Goodnight Midstream Permian, LLC
 COP Yeah Yeah Line Break
 GPS: 32.372118, -103.432373
 Lea County



Drafted: jwl

Checked: bja

Date: 11/8/23



Legend:

- Sample Point
- Excavated Area
- Buried Pipeline
- - - Surface Pipeline
- - - Electrical

Figure 3b

Site and Sample Location Map (Current Sidewalls)
 Goodnight Midstream Permian, LLC
 COP Yeah Yeah Line Break
 GPS: 32.372118, -103.432373
 Lea County



Drafted: jwl

Checked: bja

Date:

11/8/23

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

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Goodnight Midstream Permian, LLC COP Yeah Yeah Line Break NMOCD Ref. #: nAPP2325020061											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
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)
Horitonal Delineation Soil Samples											
NH - 1 @ 4'	9/12/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
NH - 1 @ 7'	9/12/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
NH - 1 B @ 2'	9/19/2023	2	In-Situ	-	-	-	-	-	-	-	48.0
NH - 1 B @ 4'	9/19/2023	4	In-Situ	-	-	-	-	-	-	-	160
NH - 1(b) @ 6'	9/21/2023	6	In-Situ	-	-	-	-	-	-	-	320
NH - 1(b) @ 8'	9/21/2023	8	In-Situ	-	-	-	-	-	-	-	448
NH - 1(b) @ 10'	9/21/2023	10	In-Situ	-	-	-	-	-	-	-	336
NH - 2 @ 2'	9/19/2023	2	In-Situ	-	-	-	-	-	-	-	112
NH - 2 @ 4'	9/19/2023	4	In-Situ	-	-	-	-	-	-	-	128
NH - 2 @ 6'	9/21/2023	6	In-Situ	-	-	-	-	-	-	-	288
NH - 2 @ 8'	9/21/2023	8	In-Situ	-	-	-	-	-	-	-	256
NH - 2 @ 10'	9/21/2023	10	In-Situ	-	-	-	-	-	-	-	176
NH - 3 @ 2'	9/19/2023	2	In-Situ	-	-	-	-	-	-	-	192
NH - 3 @ 4'	9/19/2023	4	In-Situ	-	-	-	-	-	-	-	80.0
NH - 3 @ 6'	9/21/2023	6	In-Situ	-	-	-	-	-	-	-	208
NH - 3 @ 8'	9/21/2023	8	In-Situ	-	-	-	-	-	-	-	224
NH -3 @ 10'	9/21/2023	10	In-Situ	-	-	-	-	-	-	-	240
EH - 1 @ 4'	9/12/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EH - 1 @ 8'	9/12/2023	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SH - 1 @ 5'	9/12/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
SH - 1 @ 7'	9/12/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,540
SH - 1B @ 2'	9/19/2023	2	In-Situ	-	-	-	-	-	-	-	272
SH - 1B @ 4'	9/19/2023	4	In-Situ	-	-	-	-	-	-	-	32.0
SH - 1B @ 6'	9/19/2023	6	In-Situ	-	-	-	-	-	-	-	128
SH - 1B @ 8'- R	9/19/2023	8	In-Situ	-	-	-	-	-	-	-	256
SH - 2 @ 2'	9/19/2023	2	In-Situ	-	-	-	-	-	-	-	544
SH - 2 @ 4'	9/19/2023	4	In-Situ	-	-	-	-	-	-	-	32.0
SH - 2 @ 6'	9/19/2023	6	In-Situ	-	-	-	-	-	-	-	176
SH - 2 @ 8'	9/19/2023	8	In-Situ	-	-	-	-	-	-	-	304
SH - 2 @ 10'	9/19/2023	10	In-Situ	-	-	-	-	-	-	-	416
SH - 3 @ 2'	9/19/2023	2	In-Situ	-	-	-	-	-	-	-	160
SH - 3 @ 4'	9/19/2023	4	In-Situ	-	-	-	-	-	-	-	272
SH - 3 @ 6'	9/19/2023	6	In-Situ	-	-	-	-	-	-	-	256
SH - 3 @ 8'	9/19/2023	8	In-Situ	-	-	-	-	-	-	-	240
SH - 3 @ 10'	9/19/2023	10	In-Situ	-	-	-	-	-	-	-	240
WH - 1 @ 4'	9/12/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WH - 1 @ 6'	9/12/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WH - 1 @ 8'	9/12/2023	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WH - 1 @ 10'	9/19/2023	10	In-Situ	-	-	-	-	-	-	-	160

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Goodnight Midstream Permian, LLC COP Yeah Yeah Line Break NMOCD Ref. #: nAPP2325020061											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
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)
Vertical Delineation Soil Samples											
SP 1 @ 10'	9/12/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,200
SP 1 @ 13'	9/12/2023	13	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848
SP - 1 B @ 10'	9/19/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,480
SP - 1 B @ 12'	9/19/2023	12	In-Situ	-	-	-	-	-	-	-	976
SP - 1 B @ 14'	9/19/2023	14	In-Situ	-	-	-	-	-	-	-	752
SP - 1 B @ 16'	9/19/2023	16	In-Situ	-	-	-	-	-	-	-	560
SP - 1 @ 18'	9/26/2023	18	In-Situ	-	-	-	-	-	-	-	528
SP - 1 @ 20'	9/26/2023	20	In-Situ	-	-	-	-	-	-	-	560
SP - 2 @ 10'	9/19/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,200
SP - 2 @ 12'	9/19/2023	12	In-Situ	-	-	-	-	-	-	-	352
SP - 2 @ 14'	9/19/2023	14	In-Situ	-	-	-	-	-	-	-	464
SP - 2 @ 16'	9/19/2023	16	In-Situ	-	-	-	-	-	-	-	640
SP - 2 @ 16'	9/26/2023	16	In-Situ	-	-	-	-	-	-	-	1,550
SP - 2 @ 18'	9/26/2023	18	In-Situ	-	-	-	-	-	-	-	496
SP - 2 @ 20'	9/26/2023	20	In-Situ	-	-	-	-	-	-	-	1,140
SP - 3 @ 10'	9/19/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,480
SP - 3 @ 12'	9/19/2023	12	In-Situ	-	-	-	-	-	-	-	304
SP - 3 @ 14'	9/19/2023	14	In-Situ	-	-	-	-	-	-	-	432
SP - 3 @ 16'	9/26/2023	16	In-Situ	-	-	-	-	-	-	-	736
SP - 3 @ 18'	9/26/2023	18	In-Situ	-	-	-	-	-	-	-	592
Current Sidewall Soil Samples											
ESW @ 0-4'	9/19/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	752
ESW @ 4'-F	9/19/2023	4-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,160
NSW - 1 @ 0-4'	9/19/2023	0-4	In-Situ	<0.050	<0.300	<10.0	15.7	15.7	<10.0	15.7	2,080
NSW -1 @ 4'-f	9/19/2023	4-10	In-Situ	<0.050	<0.300	12.6	382	395	65.4	460	13,800
NSW - 2 @ 0-4'	9/19/2023	0-4	In-Situ	<0.050	<0.300	<10.0	71.3	71.3	31.4	103	1,600
NSW - 2 @ 4'-F	9/19/2023	4-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,640
NSW - 3 @ 0-4'	9/19/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
NSW - 3 @ 4'-F	9/19/2023	4-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,400
SSW - 1 @ 0-4'	9/19/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440
SSW - 1 @ 4' - F	9/19/2023	4-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,900
SSW - 2 @ 0-4'	9/19/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SSW - 2 @ 4' - F	9/19/2023	4-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,880
SSW - 3 @ 0-4'	9/19/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
SSW - 3 @ 4' - F	9/19/2023	4-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,800
WSW - 1 @ 0-4'	9/19/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,920
WSW - 1 @ 4' - F	9/19/2023	4-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,560

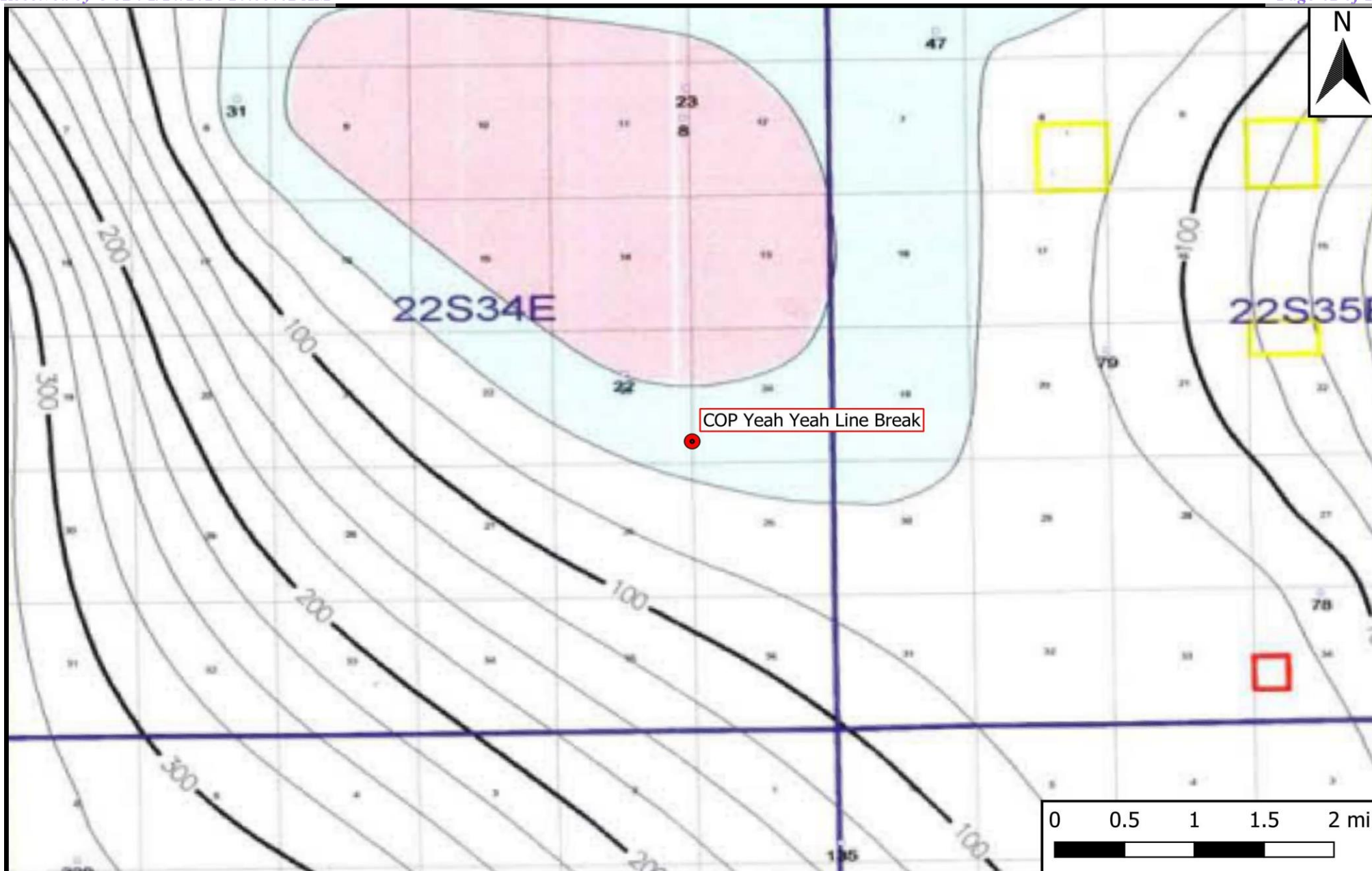
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 Goodnight Midstream Permian, LLC
 COP Yeah Yeah Line Break
 GPS: 32.372118, -103.432373
 Lea County



Drafted: mag

Checked: jwl

Date: 9/11/23



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01718 POD1		CP	LE	2	3	3	24	22S	34E	647700	3582811	227	1172	855	317
CP 01684 POD1		CP	LE	2	1	4	23	22S	34E	646932	3583129	656	300		
CP 01719 POD1		CP	LE	4	4	3	24	22S	34E	648215	3582680	742	1173	838	335
CP 01683 POD1		CP	LE	2	3	2	23	22S	34E	646949	3583562	957	300		
CP 00598 POD1		CP	LE		4	1	23	22S	34E	646480	3583511*	1246	70		
CP 01682 POD1		CP	LE	1	2	2	23	22S	34E	647164	3583992	1268	294	42	252

Average Depth to Water: **578 feet**

Minimum Depth: **42 feet**

Maximum Depth: **855 feet**

Record Count: 6

UTM NAD83 Radius Search (in meters):

Easting (X): 647477.52

Northing (Y): 3582763.75

Radius: 1610

*UTM location was derived from PLSS - see Help

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

9/11/23 7:57 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01718 POD1	2	3	3	24	22S	34E	647700	3582811
Driller License: 421									
Driller Company: GLENN'S WATER WELL SERVICE									
Driller Name: CORKY GLENN									
Drill Start Date: 05/09/2019		Drill Finish Date: 05/13/2019				Plug Date:			
Log File Date: 06/10/2019		PCW Rev Date:				Source: Artesian			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 120 GPM			
Casing Size: 8.13		Depth Well: 1172 feet				Depth Water: 855 feet			

Water Bearing Stratifications:		Top	Bottom	Description
		800	855	Sandstone/Gravel/Conglomerate
		855	918	Sandstone/Gravel/Conglomerate
		950	1139	Sandstone/Gravel/Conglomerate

Casing Perforations:		Top	Bottom
		752	1172

Meter Number:	20164	Meter Make:	SEAMETRICS
Meter Serial Number:	03212352	Meter Multiplier:	1.0000
Number of Dials:	8	Meter Type:	Diversion
Unit of Measure:	Barrels 42 gal.	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
09/02/2019	2019	15042	A	ad		0
04/09/2020	2020	15042	A	ad		0
05/31/2020	2020	15042	A	ad		0
06/30/2020	2020	15042	A	ad		0
07/31/2020	2020	15042	A	ad		0
08/31/2020	2020	15042	A	ad		0
09/30/2020	2020	15042	A	ad		0
10/31/2020	2020	15042	A	ad		0
11/30/2020	2020	15042	A	ad		0
12/31/2020	2020	15042	A	ad		0
01/31/2021	2021	15042	A	ad		0
02/28/2021	2021	20251	A	ad		0.671
03/31/2021	2021	20251	A	ad		0
04/30/2021	2021	20536	A	ad		0.037
05/13/2021	2021	0	A	ad		0
05/31/2021	2021	0	A	ad		0
06/30/2021	2021	18656	A	ad		2.405
07/31/2021	2021	19655	A	ad		0.129

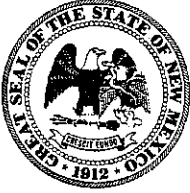
08/31/2021	2021	53526	A	ad	4.366
09/30/2021	2021	85398	A	ad	4.108
10/31/2021	2021	109132	A	ad	3.059
11/30/2021	2021	129634	A	ad	2.643
12/26/2021	2021	150430	A	ad	2.680
01/31/2022	2022	180793	A	ad	3.914
02/28/2022	2022	180794	A	ad	0
03/31/2022	2022	196267	A	ad	1.994
04/30/2022	2022	240915	A	ad	5.755
06/01/2022	2022	255789	A	ad	1.917
07/01/2022	2022	288319	A	ad	4.193
08/01/2022	2022	324972	A	ad	4.724
11/01/2022	2022	351870	A	WEB	3.467 X
12/01/2022	2022	374916	A	WEB	2.970 X
01/01/2023	2022	380172	A	WEB	0.677 X
02/01/2023	2023	380174	A	WEB	0 X
03/01/2023	2023	416655	A	WEB	4.702 X
04/01/2023	2023	445946	A	WEB	3.775 X
05/01/2023	2023	445947	A	WEB	0 X
06/01/2023	2023	478762	A	WEB	4.230 X
07/01/2023	2023	516581	A	WEB	4.875 X
08/01/2023	2023	520424	A	WEB	0.495 X
09/01/2023	2023	520424	A	WEB	0 X

**YTD Meter Amounts:	Year	Amount
	2019	0
	2020	0
	2021	20.098
	2022	29.611
	2023	18.077

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.

9/11/23 7:59 AM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) CP-1718-POD1 MLP West		WELL TAG ID NO.		OSE FILE NO(S).		
	WELL OWNER NAME(S) Merchant Livestock Company/Glenn's Water Well Service, Inc.				PHONE (OPTIONAL) 575-398-2424		
	WELL OWNER MAILING ADDRESS PO Box 692				CITY Tatum	STATE NM	
					ZIP 88267		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 22	SECONDS 21.06	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LONGITUDE -103	25	48.00	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW1/4 NE1/4 SW1/4 Section 24, Township 22 South, Range 34 East on Merchant Livestock Company Land							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD 421		NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.	
	DRILLING STARTED 05/09/19	DRILLING ENDED 05/13/19	DEPTH OF COMPLETED WELL (FT) 1,172	BORE HOLE DEPTH (FT) 1,172	DEPTH WATER FIRST ENCOUNTERED (FT) 855'		
	COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 403'		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
	0	40	20"	ASTM A53 Sch 40 Steel 16" OD	None	15.5	.25
	0	800	14.75"	API Steel Grade J-55/K-55 10.75" OD	Thread & Collar	10.05	.35
	752	1,172	9.875"	Steel Casing 8 5/8" / 8.625" OD	Plain End	8.125	.25
			(420' Total) Bottom 378 Perforated				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO					
	0	40'	20"	Cemented	2 yards	Top Pour	
	0	800'	14.75"	Float and Shoe Cemented to Surface 28 Barrels	345 Sacks Pumped	Circulated	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	CP-1718	POD NO.	1	TRN NO.	628247
LOCATION	22S.34E.24.3.3.2	WELL TAG ID NO.	EXPL	N/A	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST; RIG SUPERVISION

6. SIGNATURE

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO.	CP-1718	POD NO.	1
LOCATION	225.34E.24 3.3.2	TRN NO.	628247
	EXPI	WELL TAG ID NO.	N/A
		PAGE 2 OF 2	



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
2062C	CP 01684 POD1	2	1	4	23	22S	34E	646932	3583129

Driller License:

Driller Company:

Driller Name:

Drill Start Date:

Drill Finish Date:

Plug Date:

Log File Date:

PCW Rev Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

300 feet

Depth Water:

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

9/11/23 7:59 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: CP 01684 **Subbasin:** CP **Cross Reference:** -
Primary Purpose: COM COMMERCIAL
Primary Status: PMT PERMIT
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 128 **Cause/Case:** -
Agent: ATKINS ENGR ASSOC INC
Contact: JESSICA ATKINS
Owner: MERCHANT LIVESTOCK CO
Contact: CORKY GLENNS WATER WELL SERVICE

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
				1	2		To				
	681837	72121	2020-11-17	PMT	APR	CP 01684 POD1	T			3	
	611829	APPRO	2020-03-16	PMT	FIN	CP-1684 POD1	T		0	125	125
	660043	72121	2019-10-04	EXP	EXP	CP 01684 POD1	T			3	
	632622	72121	2018-09-24	EXP	EXP	CP 01684 POD1	T			3	
	612596	72121	2017-08-25	EXP	EXP	CP 01684 POD1	T			3	

Current Points of Diversion

POD Number	Well Tag	Source	Q		X	Y	Other Location Desc
			64	Q16Q4Sec			
CP 01684 POD1	2062C		2	1 4 23 22S 34E	646932	3583129	

Priority Summary

Priority	Status	Acres	Diversion	Pod Number
01/23/2018	PMT	0	125	CP 01684 POD1

Place of Use

Q	Q	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64 Q16 Q4Sec							
		0	125	125	COM	01/23/2018	PMT	SECTION ALL TOWNSHIP 21S.-23S. Range 32E.-36E.

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	125	125	COM	01/23/2018	GW

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9/11/23 8:06 AM

 WATER RIGHT
SUMMARY




New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
NA	CP 01719 POD1	4 4 3	24	22S	34E	648215	3582680 

x

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A. "CORKY", CE

Drill Start Date: 05/20/2019	Drill Finish Date: 05/24/2019	Plug Date:
Log File Date: 06/10/2019	PCW Rev Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield: 100 GPM
Casing Size: 8.00	Depth Well: 1173 feet	Depth Water: 838 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	826	857	Shale/Mudstone/Siltstone
	857	953	Shale/Mudstone/Siltstone
	953	1150	Sandstone/Gravel/Conglomerate
	1150	1173	Shale/Mudstone/Siltstone

x

Casing Perforations:	Top	Bottom
	753	1173

x

Meter Number: 20158	Meter Make: SEAMETRICS
Meter Serial Number: 10 200 093	Meter Multiplier: 1.0000
Number of Dials: 8	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Monthly

x

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/30/2020	2020	11980	A	ad		0
05/31/2020	2020	11980	A	ad		0
06/30/2020	2020	11980	A	ad		0
07/31/2020	2020	11980	A	ad		0
08/31/2020	2020	11980	A	ad		0
09/30/2020	2020	11980	A	ad		0
10/31/2020	2020	11980	A	ad		0
11/30/2020	2020	11980	A	ad		0
12/31/2020	2020	11980	A	ad		0
01/31/2021	2021	11980	A	ad		0
02/20/2021	2021	0	A	ad		0
02/28/2021	2021	3493	A	ad		0.450
03/31/2021	2021	3493	A	ad		0
04/30/2021	2021	6905	A	ad		0.440
05/31/2021	2021	47818	A	ad		5.273
06/30/2021	2021	59007	A	ad		1.442
07/31/2021	2021	78515	A	ad		2.514

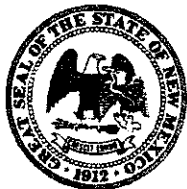
08/31/2021	2021	119887	A	ad	5.333
09/30/2021	2021	163769	A	ad	5.656
10/31/2021	2021	195376	A	ad	4.074
11/30/2021	2021	226335	A	ad	3.990
12/26/2021	2021	258461	A	ad	4.141
01/31/2022	2022	299247	A	ad	5.257
02/28/2022	2022	299273	A	ad	0.003
03/31/2022	2022	299273	A	ad	0
04/30/2022	2022	391169	A	ad	11.845
06/01/2022	2022	395948	A	ad	0.616
07/01/2022	2022	465704	A	ad	8.991
08/05/2022	2022	503843	A	ad	4.916
09/01/2022	2022	534781	A	ad	3.988
11/01/2022	2022	534782	A	WEB	0 X
12/01/2022	2022	564473	A	WEB	3.827 X
01/01/2023	2022	570659	A	WEB	0.797 X
02/01/2023	2023	570666	A	WEB	0.001 X
03/01/2023	2023	629574	A	WEB	7.593 X
04/01/2023	2023	670661	A	WEB	5.296 X
05/01/2023	2023	670662	A	WEB	0 X
06/01/2023	2023	722663	A	WEB	6.703 X
07/01/2023	2023	780574	A	WEB	7.464 X
08/01/2023	2023	785760	A	WEB	0.668 X
09/01/2023	2023	785760	A	WEB	0 X

**YTD Meter Amounts:	Year	Amount
	2020	0
	2021	33.313
	2022	40.240
	2023	27.725

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9/11/23 7:59 AM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) CP-1719-POD1 MLP East		WELL TAG ID NO.		OSE FILE NO(S)			
	WELL OWNER NAME(S) Merchant Livestock Company/Glenn's Water Well Service, Inc.				PHONE (OPTIONAL) 575-398-2424			
	WELL OWNER MAILING ADDRESS PO Box 692				CITY Tatum	STATE NM	ZIP 88267	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 22	SECONDS 16.56	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE -103	25	28.38	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE1/4 SE1/4 SW1/4 Section 24, Township 22 South, Range 34 East on Merchant Livestock Company Land								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD 421		NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.		
	DRILLING STARTED 05/20/19		DRILLING ENDED 05/24/19		DEPTH OF COMPLETED WELL (FT) 1,173	BORE HOLE DEPTH (FT) 1,173	DEPTH WATER FIRST ENCOUNTERED (FT) 838'	
	COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 405'		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	40	20"	ASTM A53 Sch 40 Steel 16" OD	None	15.5	.25	---
	0	788	14.75"	API Steel Grade J-55/K-55 10.75" OD	Thread & Collar	10.05	.35	---
	753	1,173	9.875"	Steel Casing 8 5/8" / 8.625" OD	Plain End	8.125	.25	1/8"
			(420' Total) Bottom 378 Perforated					
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	40'	20"	Cemented	2 yards	Top Pour		
	0	788'	14.75"	Float and Shoe Cemented to Surface 47 Barrels	405 Sacks Pumped	Circulated		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	CP-1719	POD NO.	171370	TRN NO.	POD 1
LOCATION	22S.34E.24.349				WELL TAG ID NO.
					PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	8	8	Clay	Y ✓ N	
	8	25	17	Caliche	Y ✓ N	
	25	120	95	Sand & Red Clay	Y ✓ N	
	120	500	380	Red Clay & Shale	Y ✓ N	
	500	728	228	Brown Shale	Y ✓ N	
	728	788	60	Red Shale & Clay	Y ✓ N	
	788	794	6	Red Shale & Clay	Y ✓ N	
	794	826	32	Red Shale & some Blue Clay	Y ✓ N	
	826	857	31	Blue Sand Shale	✓ Y N	
	857	953	96	Red Sand & Shale	✓ Y N	
	953	1,150	197	Sand	✓ Y N	100.00
	1,150	1,173	23	Red Shale	✓ Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 100.00	
<input type="checkbox"/> PUMP <input checked="" type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST, RIG SUPERVISION	WELL TEST					
	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	MISCELLANEOUS INFORMATION: 0' to 788' drilled with mud. 788' to 1,173' drilled with air and foam.					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Corky Glenn DATE 6/14/19 </div> </div>					

FOR USE INTERNAL USE


WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. CP-1719	POD NO. 1	TRN NO. 671370
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20D30	CP 01683 POD1	2	3	2	23	22S	34E	646949	3583562 

Driller License:	Driller Company:	
Driller Name:		
Drill Start Date:	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rev Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well:	Depth Water:

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

9/11/23 7:59 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: CP 01683 **Subbasin:** CP **Cross Reference:** -
Primary Purpose: COM COMMERCIAL
Primary Status: PMT PERMIT
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 128 **Cause/Case:** -
Agent: ATKINS ENGR ASSOC INC
Contact: JESSICA ATKINS
Owner: MERCHANT LIVESTOCK CO
Contact: CORKY GLENNS WATER WELL SERVICE

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
				1	2		To				
	681820	72121	2020-11-17	PMT	APR	CP 01683 POD1	T			3	
	611823	APPRO	2020-03-16	PMT	FIN	CP-1683 POD1	T		0	125	125
	659858	72121	2019-10-04	EXP	EXP	CP 01683 POD1	T			3	
	632578	72121	2018-09-21	EXP	EXP	CP 01683 POD1	T			3	
	612593	72121	2017-08-25	EXP	EXP	CP 01683 POD1	T			3	

Current Points of Diversion

POD Number	Well Tag	Source	Q		X	Y	Other Location Desc
			64	Q16Q4Sec Tws Rng			
CP 01683 POD1	20D30		2	3 2 23 22S 34E	646949	3583562	

Priority Summary

Priority	Status	Acres	Diversion	Pod Number
12/20/2017	PMT	0	125	CP 01683 POD1

Place of Use

Q	Q	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64 Q16 Q4Sec Tws Rng							
		0	125	125	COM	12/20/2017	PMT	SECTION ALL TOWNSHIP 21S.-23S. R.32E.-36E.

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	125	125	COM	12/20/2017	GW

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9/11/23 8:08 AM

 WATER RIGHT
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 00598 POD1		4	1	23	22S	34E	646480	3583511*		
<hr/>											
Driller License: 122		Driller Company:				UNKNOWN					
Driller Name:											
Drill Start Date:		Drill Finish Date:				Plug Date:					
Log File Date:		PCW Rcv Date:				Source:				Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:				3 GPM	
Casing Size: 6.63		Depth Well:				70 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.

9/11/23 7:59 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)

WR File Number: CP 00598 **Subbasin:** CP **Cross Reference:** -
Primary Purpose: PLS NON 72-12-1 LIVESTOCK WATERING
Primary Status: DCL DECLARATION
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 3 **Cause/Case:** -
Owner: THE MERCHANT LIVESTOCK COMPANY

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
get images	546669	DCL	1979-04-17	DCL	PRC	CP 00598	T	0	3

Current Points of Diversion

(NAD83 UTM in meters)									
POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
CP 00598 POD1		Shallow		4	1	23 22S 34E	646480	3583511*	

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

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	Shallow
12/31/1962	DCL	0	3	CP 00598 POD1	

Place of Use

Q	Q	256	64	Q16	Q4Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
								0	3		PLS	12/31/1962	DCL	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	3		PLS	12/31/1962	GW

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.


9/11/23 8:10 AM

WATER RIGHT
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
2062A	CP 01682 POD1	1	2	2	23	22S	34E	647164	3583992 

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: CORKY GLENN

Drill Start Date: 09/10/2019 **Drill Finish Date:** 09/13/2019 **Plug Date:**

Log File Date: 09/19/2019 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 15 GPM

Casing Size: 8.13 **Depth Well:** 294 feet **Depth Water:** 42 feet

Water Bearing Stratifications:	Top	Bottom	Description
	42	56	Sandstone/Gravel/Conglomerate
	68	92	Sandstone/Gravel/Conglomerate
	242	274	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	0	294

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9/11/23 7:59 AM

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
Goodnight Midstream Permian, LLC
COP Yeah Yeah Line Break
GPS: 32.372118, -103.432373
Lea County



Drafted: mag

Checked: jwl

Date: 9/11/23



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

[Click for News Bulletins](#)

[Groundwater levels for the Nation](#)

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322231103262601

Minimum number of levels = 1

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

USGS 322231103262601 22S.34E.23.23131

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°22'47.6", Longitude 103°26'25.3" NAD83

Land-surface elevation 3,452 feet above NAVD88

The depth of the well is 60 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

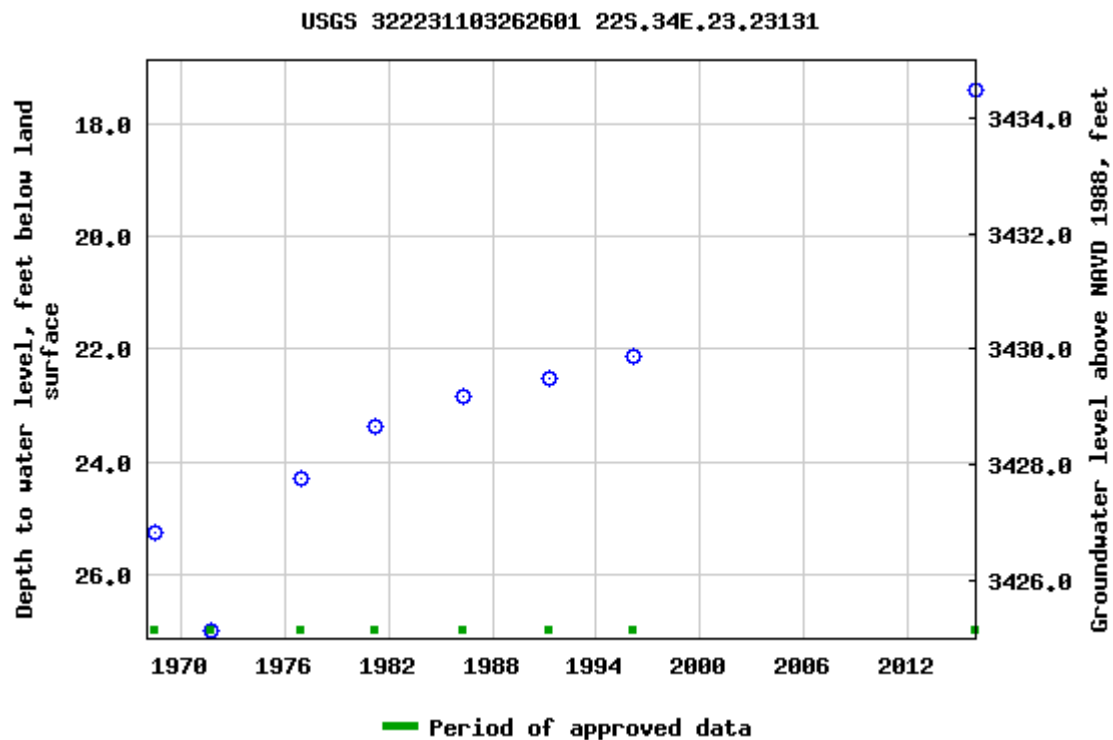
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2023-09-11 09:55:21 EDT

0.6 0.5 nadww01

Appendix B

*******Soil Profile Log**



Soil Profile

Date: 11/8/2023

Project: COP Yeah Yeah Line Break

Project Number: 18963 Latitude: 32.3723116 Longitude: -103.432373

Depth (ft. bgs)	Description
1	
2	Brown Top Soil w/ Clay
3	
4	
5	
6	
7	Brown Top Soil w/ Clay and Caliche
8	
9	
10	
11	
12	Fat Reddish Brown Clay
13	
14	
15	
16	
17	
18	
19	
20	TD
21	
22	
23	
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40	

Appendix C

Laboratory Analytical Reports



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

September 18, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COP YEAH YEAH LINE BREAK

Enclosed are the results of analyses for samples received by the laboratory on 09/13/23 14:41.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SP 1 @ 10' (H234950-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2023	ND	1.94	96.8	2.00	0.428	
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07	
Total BTX	<0.300	0.300	09/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	09/14/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SP 1 @ 13' (H234950-02)

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	09/15/2023	ND	1.94	96.8	2.00	0.428		
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07		
Total BTEX	<0.300	0.300	09/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	09/14/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NH - 1 @ 4' (H234950-03)

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	09/15/2023	ND	1.94	96.8	2.00	0.428		
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07		
Total BTEX	<0.300	0.300	09/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	09/14/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NH - 1 @ 7' (H234950-04)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2023	ND	1.94	96.8	2.00	0.428	
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07	
Total BTX	<0.300	0.300	09/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/14/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EH - 1 @ 4' (H234950-05)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.94	96.8	2.00	0.428		
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07		
Total BTX	<0.300	0.300	09/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/14/2023	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42		
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31		
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND						

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EH - 1 @ 8' (H234950-06)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.94	96.8	2.00	0.428		
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07		
Total BTX	<0.300	0.300	09/15/2023	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/14/2023	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42		
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31		
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND						

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SH - 1 @ 5' (H234950-07)

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	09/15/2023	ND	1.94	96.8	2.00	0.428		
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07		
Total BTEx	<0.300	0.300	09/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	09/14/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SH - 1 @ 7' (H234950-08)

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	09/15/2023	ND	1.94	96.8	2.00	0.428	
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07	
Total BTEX	<0.300	0.300	09/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	09/14/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WH - 1 @ 4' (H234950-09)

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	09/15/2023	ND	1.94	96.8	2.00	0.428		
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07		
Total BTEX	<0.300	0.300	09/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/14/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WH - 1 @ 6' (H234950-10)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.94	96.8	2.00	0.428		
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07		
Total BTX	<0.300	0.300	09/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/14/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WH - 1 @ 8' (H234950-11)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.94	96.8	2.00	0.428		
Toluene*	<0.050	0.050	09/15/2023	ND	2.06	103	2.00	0.334		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.05	102	2.00	1.29		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.07		
Total BTX	<0.300	0.300	09/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/14/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.5	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

1/2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joe Lowry

Address: 2617 West Marland

City: Hobbs

Phone #: (575) 264-9884

Project #: 18913

Project Name: COP Year Year Line Break

Project Location: Rural W Co, NM

Sample Name: Joe Lowry

BILL TO

P.O. #:

Company: Goodnight

Attn:

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

Chloride
TPH (8015M)
BTEX (8021B)

Lab I.D. Sample I.D.

H234950

FOR LAB USE ONLY	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
------------------	-------------------	--------------	--------	---------	----------	------	------	----------	-------------	--------------

1	BR101	1	X	X	X	4.12.23	11:00	X	X	X
2	SA101	1	X	X	X	4.12.23	11:15	X	X	X
3	NH101	1	X	X	X	4.12.23	11:30	X	X	X
4	NH101	1	X	X	X	4.12.23	11:45	X	X	X
5	EH101	1	X	X	X	4.12.23	12:00	X	X	X
6	EH101	1	X	X	X	4.12.23	1:00	X	X	X
7	SA101	1	X	X	X	4.12.23	1:15	X	X	X
8	SA101	1	X	X	X	4.12.23	1:30	X	X	X
9	WH101	1	X	X	X	4.12.23	1:45	X	X	X
10	WH101	1	X	X	X	4.12.23	2:00	X	X	X

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Relinquished By: [Signature] Date: 9/13/23 Time: 14:41

Received By: [Signature]

Relinquished By: [Signature]

Date: 9/13/23 Time: 14:41

Received By: [Signature]

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

CHECKED BY: (Initials)

[Signature]

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

REMARKS:

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

-490c #140



ARDINAL LABORATORIES

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

2/2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joel Lowry

Address: 2617 West Marland

City: Hobbs

Phone #: (575) 264-9884

Project #: 18963

Project Name: 99 Yeh Yeh line break

Project Location: Rural Lm Co., NM

Sampler Name: Joel Lowry

FOR LAB USE ONLY

Lab I.D. H234950

Sample I.D.

BILL TO

ANALYSIS REQUEST

P.O. #:

Company Goodnight

Attn:

Address:

City:

State:

Phone #:

Fax #:

Zip:

DATE

TIME

DATE

TIME

DATE

TIME

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TIME

Chloride

TPH (8015M)

BTEX (8021B)

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Relinquished By:

Date: 9/13/03

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Fax #:

REMARKS:

Relinquished By:

Date:

Time:

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

Yes

No

CHECKED BY:

(Initials)

Yes

No

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

FORM-006
Revision 1.0



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

September 22, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COP YEAH YEAH LINE BREAK

Enclosed are the results of analyses for samples received by the laboratory on 09/20/23 16:43.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SP - 1 B @ 10' (H235117-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2023	ND	2.01	101	2.00	2.09	
Toluene*	<0.050	0.050	09/22/2023	ND	2.08	104	2.00	2.58	
Ethylbenzene*	<0.050	0.050	09/22/2023	ND	2.07	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	09/22/2023	ND	6.27	105	6.00	1.88	
Total BTEX	<0.300	0.300	09/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SP - 1 B @ 12' (H235117-02)

Chloride, SM4500Cl-B		mg/ kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SP - 1 B @ 14' (H235117-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SP - 1 B @ 16' (H235117-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/21/2023	ND	432	108	400	0.00	

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SP - 2 @ 10' (H235117-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2023	ND	2.01	101	2.00	2.09	
Toluene*	<0.050	0.050	09/22/2023	ND	2.08	104	2.00	2.58	
Ethylbenzene*	<0.050	0.050	09/22/2023	ND	2.07	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	09/22/2023	ND	6.27	105	6.00	1.88	
Total BTEX	<0.300	0.300	09/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SP - 2 @ 12' (H235117-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	09/21/2023	ND	432	108	400	0.00		

Sample ID: SP - 2 @ 14' (H235117-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SP - 2 @ 16' (H235117-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	09/21/2023	ND	432	108	400	0.00	

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SP - 3 @ 10' (H235117-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2023	ND	2.01	101	2.00	2.09	
Toluene*	<0.050	0.050	09/22/2023	ND	2.08	104	2.00	2.58	
Ethylbenzene*	<0.050	0.050	09/22/2023	ND	2.07	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	09/22/2023	ND	6.27	105	6.00	1.88	
Total BTEX	<0.300	0.300	09/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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



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 JOEL LOWRY
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Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SP - 3 @ 12' (H235117-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SP - 3 @ 14' (H235117-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: NH 1 B @ 2' (H235117-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/21/2023	ND	432	108	400	0.00		

Sample ID: NH 1 B @ 4' (H235117-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: NH 2 @ 2' (H235117-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/21/2023	ND	432	108	400	0.00	

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Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NH 2 @ 4' (H235117-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: NH 3 @ 2' (H235117-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/21/2023	ND	432	108	400	0.00		

Sample ID: NH 3 @ 4' (H235117-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/21/2023	ND	432	108	400	0.00		

Sample ID: WH 1 @ 10' (H235117-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SH 1 @ 6' (H235117-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/21/2023	ND	432	108	400	0.00	

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Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SH 1 @ 8' (H235117-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	09/21/2023	ND	432	108	400	0.00		

Sample ID: SH 1 @ 10' (H235117-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	09/21/2023	ND	432	108	400	0.00		

Sample ID: SH 1 B @ 2' (H235117-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/21/2023	ND	432	108	400	0.00		

Sample ID: SH 1 B @ 4' (H235117-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SH 1 B @ 6' (H235117-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/21/2023	ND	432	108	400	0.00		

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Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SH 1 B @ 8' R (H235117-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SH 2 @ 2' (H235117-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SH 2 @ 4' (H235117-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/21/2023	ND	432	108	400	0.00		

Sample ID: SH 3 @ 2' (H235117-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SH 3 @ 4' (H235117-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/21/2023	ND	432	108	400	0.00	

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Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SH 3 @ 6' (H235117-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SH 3 @ 8' (H235117-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/21/2023	ND	432	108	400	0.00	

Sample ID: SH 3 @ 10' (H235117-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/21/2023	ND	432	108	400	0.00	

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Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WSW - 1 @ 0-4' (H235117-33)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/22/2023	ND	2.01	101	2.00	2.09		
Toluene*	<0.050	0.050	09/22/2023	ND	2.08	104	2.00	2.58		
Ethylbenzene*	<0.050	0.050	09/22/2023	ND	2.07	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	09/22/2023	ND	6.27	105	6.00	1.88		
Total BTEX	<0.300	0.300	09/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WSW - 1 @ 4' - F (H235117-34)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/22/2023	ND	2.01	101	2.00	2.09		
Toluene*	<0.050	0.050	09/22/2023	ND	2.08	104	2.00	2.58		
Ethylbenzene*	<0.050	0.050	09/22/2023	ND	2.07	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	09/22/2023	ND	6.27	105	6.00	1.88		
Total BTEx	<0.300	0.300	09/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSW - 1 @ 0-4' (H235117-35)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/22/2023	ND	2.01	101	2.00	2.09		
Toluene*	<0.050	0.050	09/22/2023	ND	2.08	104	2.00	2.58		
Ethylbenzene*	<0.050	0.050	09/22/2023	ND	2.07	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	09/22/2023	ND	6.27	105	6.00	1.88		
Total BTEx	<0.300	0.300	09/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSW - 1 @ 4' - F (H235117-36)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2023	ND	2.01	101	2.00	2.09	
Toluene*	<0.050	0.050	09/22/2023	ND	2.08	104	2.00	2.58	
Ethylbenzene*	<0.050	0.050	09/22/2023	ND	2.07	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	09/22/2023	ND	6.27	105	6.00	1.88	
Total BTEX	<0.300	0.300	09/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5900	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSW - 2 @ 0-4' (H235117-37)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/22/2023	ND	2.04	102	2.00	1.15		
Toluene*	<0.050	0.050	09/22/2023	ND	2.12	106	2.00	0.761		
Ethylbenzene*	<0.050	0.050	09/22/2023	ND	2.11	105	2.00	1.33		
Total Xylenes*	<0.150	0.150	09/22/2023	ND	6.41	107	6.00	0.824		
Total BTEX	<0.300	0.300	09/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSW - 2 @ 4' - F (H235117-38)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15	
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824	
Total BTEX	<0.300	0.300	09/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSW - 3 @ 0-4' (H235117-39)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15		
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761		
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33		
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824		
Total BTEX	<0.300	0.300	09/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSW - 3 @ 4' - F (H235117-40)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15	
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824	
Total BTEX	<0.300	0.300	09/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NSW - 1 @ 0-4' (H235117-41)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15	
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824	
Total BTEX	<0.300	0.300	09/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	09/21/2023	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	09/22/2023	ND	213	106	200	6.05	
DRO >C10-C28*	15.7	10.0	09/22/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/22/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NSW - 1 @ 4' - F (H235117-42)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15	
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824	
Total BTX	<0.300	0.300	09/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13800	16.0	09/21/2023	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*	12.6	10.0	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	382	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	65.4	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NSW - 2 @ 0-4' (H235117-43)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15	
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824	
Total BTEX	<0.300	0.300	09/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	71.3	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	31.4	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 65.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NSW - 2 @ 4' - F (H235117-44)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15	
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824	
Total BTEX	<0.300	0.300	09/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NSW - 3 @ 0-4' (H235117-45)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15	
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824	
Total BTX	<0.300	0.300	09/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NSW - 3 @ 4' - F (H235117-46)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15	
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824	
Total BTEX	<0.300	0.300	09/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: ESW @ 0-4' (H235117-47)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15	
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824	
Total BTX	<0.300	0.300	09/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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



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

Analytical Results For:

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

Received: 09/20/2023
 Reported: 09/22/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: ESW @ 4' - F (H235117-48)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/21/2023	ND	2.04	102	2.00	1.15		
Toluene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	0.761		
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.11	105	2.00	1.33		
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.41	107	6.00	0.824		
Total BTEx	<0.300	0.300	09/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	09/21/2023	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	09/21/2023	ND	213	106	200	6.05	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	220	110	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Notes and Definitions

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

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: Joel Lowry		Company: Goodnight Midstream Permian, LLC																					
Address: 2617 W Marland Blvd		Attn: Adrian Urquidí																					
City: Hobbs		Address:																					
Phone #: 575-396-2378		City:																					
Fax #: 575-396-1429		State: NM																					
Project #: 18963		Zip: 88240																					
Project Owner: Goodnight Midstream Permian, LLC		Project Name: COP Yeah Yeah Line Break																					
Project Location: U/P Sec 23 T22S - R34E		State: NM																					
Sample Name: Joel Lowry		Phone #: 575-396-2378																					
Fax #: 575-396-1429		Zip: 88240																					
FOR LAB USE ONLY		Sample I.D.																					
Lab I.D.		Sample I.D.																					
1 SP - 1B @ 10'		G 1																					
2 SP - 1B @ 12'		G 1																					
3 SP - 1B @ 14'		G 1																					
4 SP - 1B @ 16'		G 1																					
5 SP - 2 @ 10'		G 1																					
6 SP - 2 @ 12'		G 1																					
7 SP - 2 @ 14'		G 1																					
8 SP - 2 @ 16'		G 1																					
9 SP - 3 @ 10'		G 1																					
10 SP - 3 @ 12'		G 1																					
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Relinquished By: Tamarah Kendrick		Time: 9:20		Received By: [Signature]		Sample Condition: Intact		CHECKED BY: [Signature]															
Delivered By: (Circle One)		Sample Condition: Intact		CHECKED BY: [Signature]																			
Sampler - UPS - Bus - Other: #140		Sample Condition: Intact		CHECKED BY: [Signature]																			
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476		Phone Result: Yes No		Add'l Phone #: PM@etchenv.com																			
FORM-006 R.2.0		Fax Result: Yes No		Add'l Fax #: PM@etchenv.com																			



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 33 of 33



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: Joel Jacoby		Company:																					
Address: P.O. Box 301		Attn:																					
City: Lovington		Address:																					
Phone #: (575) 396-2378		City:																					
Fax #: (575) 396-1429		State:																					
Project #:		Zip:																					
Project Name: Telapaga		Phone #:																					
Project Location:		Fax #:																					
Sampler Name: Martin Scott Wade Jr																							
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.																					
11		FL# 57 @ 2																					
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Relinquished By: *Joel Jacoby* Date: *1/22/2024* Received By: *8hodiquez*

Delivered By: (Circle One) *1.42* Sample Condition: ☒ Cool ☒ Intact ☐ Yes ☐ No ☐ Yes ☐ No

Sampler - UPS - Bus - Other: *\$140* CHECKED BY: *8pe*

Phone Result: ☐ Yes ☐ No Add'l Phone #:
 Fax Result: ☐ Yes ☐ No Add'l Fax #:
 REMARKS:
 Please email results to pm@etechenv.com.



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

September 26, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COP YEAH YEAH LINE BREAK

Enclosed are the results of analyses for samples received by the laboratory on 09/22/23 15:07.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/22/2023
 Reported: 09/26/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NH - 1 @ 6' (H235176-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/25/2023	ND	432	108	400	3.64	

Sample ID: NH - 1 @ 8' (H235176-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/25/2023	ND	432	108	400	3.64	

Sample ID: NH - 1 @ 10' (H235176-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/25/2023	ND	432	108	400	3.64	

Sample ID: NH - 2 @ 6' (H235176-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/25/2023	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/22/2023
 Reported: 09/26/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NH - 2 @ 8' (H235176-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	09/25/2023	ND	432	108	400	3.64		

Sample ID: NH - 2 @ 10' (H235176-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/25/2023	ND	432	108	400	3.64		

Sample ID: NH - 3 @ 6' (H235176-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/25/2023	ND	432	108	400	3.64	

Sample ID: NH - 3 @ 8' (H235176-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/25/2023	ND	432	108	400	3.64	

Sample ID: NH - 3 @ 10' (H235176-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/25/2023	ND	432	108	400	3.64		

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

September 29, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: COP YEAH YEAH LINE BREAK

Enclosed are the results of analyses for samples received by the laboratory on 09/28/23 12:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/28/2023
 Reported: 09/29/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 1 @ 18' (H235304-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/29/2023	ND	432	108	400	3.64	

Sample ID: SP - 1 @ 20' (H235304-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/29/2023	ND	432	108	400	3.64	

Sample ID: SP - 2 @ 16' (H235304-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	09/29/2023	ND	432	108	400	3.64	

Sample ID: SP - 2 @ 18' (H235304-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/29/2023	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/28/2023
 Reported: 09/29/2023
 Project Name: COP YEAH YEAH LINE BREAK
 Project Number: 18963
 Project Location: RURAL LEA CO., NM

Sampling Date: 09/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 2 @ 20' (H235304-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	09/29/2023	ND	432	108	400	3.64		

Sample ID: SP - 3 @ 16' (H235304-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	09/29/2023	ND	432	108	400	3.64		

Sample ID: SP - 3 @ 18' (H235304-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	09/29/2023	ND	432	108	400	3.64		

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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



Page 5 of 5

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Appendix D

Photographic Log













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District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 302000

QUESTIONS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 302000
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2325020061
Incident Name	NAPP2325020061 YEAH YEAH PIPELINE LINE RUPTURE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	YEAH YEAH PIPELINE LINE RUPTURE
Date Release Discovered	09/06/2023
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Repair and Maintenance Pipeline (Any) Produced Water Released: 675 BBL Recovered: 675 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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1000 Rio Brazos Rd., Aztec, NM 87410
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QUESTIONS, Page 2

Action 302000

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID:
	372311
	Action Number:
	302000
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Adrian Urduidi Title: HSE Representative Email: adrian.urquidi@goodnightmidstream.com Date: 01/10/2024
--	--

District I

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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

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Oil Conservation Division
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QUESTIONS, Page 3

Action 302000

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID:	372311
	Action Number:	302000
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	13800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	460
GRO+DRO	(EPA SW-846 Method 8015M)	395
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	09/06/2023
On what date will (or did) the final sampling or liner inspection occur	02/15/2024
On what date will (or was) the remediation complete(d)	04/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	2900
What is the estimated volume (in cubic yards) that will be reclaimed	430
What is the estimated surface area (in square feet) that will be remediated	1500
What is the estimated volume (in cubic yards) that will be remediated	1170

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

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

District I

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 4

Action 302000

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID:	372311
	Action Number:	302000
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Adrian Urduidi Title: HSE Representative Email: adrian.urquidi@goodnightmidstream.com Date: 01/10/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 302000

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 302000
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

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

QUESTIONS, Page 6

Action 302000

QUESTIONS (continued)

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 302000
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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

District I
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CONDITIONS

Action 302000

CONDITIONS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 302000
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral request is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	1/26/2024